



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106028-150 Sample Location: KAFB-106028

Port Depth: 150 Date: 10/5/2020

Screened Interval: Sample Team: Team 2

Top: 148.75 (ft. b.g.s)

Bottom: 151.25 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 79° Sunny

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.615 (Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<del>LB4-2T2</del> (SCFM)
C. Purge time (Sec.)	<del>109.225</del> (Seconds)
1. Equals A/B*60 (round up)	18.4

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1348</u>	<u>0.14</u>	<u>19.32</u>	<u>7</u>	<u>19</u>

Sample ID: SV028-150-204 Duplicate Sample ID: NA

Canister Number(s): 15C01291

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0" H<sub>2</sub>O SUMMA Final Pressure: -0.5" H<sub>2</sub>O

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106028-250 Sample Location: KAFB-106028

Port Depth: 250 Date: 10/15/2020

Screened Interval: Sample Team: Team 2

Top: 248.75 (ft. b.g.s)

Bottom: 251.25 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 79° Sunny

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.752	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2	(SCFM)
C. Purge time (Sec.)	22.56	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1351</u>	<u>0.28</u>	<u>19.53</u>	<u>8</u>	<u>23</u>

Sample ID: SV028-250-204 Duplicate Sample ID: NA

Canister Number(s): 15500748

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106028-350 Sample Location: KAFB-106028

Port Depth: 350 Date: 10/5/2020

Screened Interval: Sample Team: Jean &

Top: 348.75 (ft. b.g.s)

Bottom: 351.25 (ft. b.g.s)

PID in Wellhead: 00 Sample Team Signature: Z m

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 79° Sunny

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.888	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2	(SCFM)
C. Purge time (Sec.)	26.64	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1354</u>	<u>19.69</u>	<u>0.32</u>	<u>5</u>	<u>27</u>

Sample ID: SV028-350-204 Duplicate Sample ID: NA

Canister Number(s): 1SC01004

Regulator Number(s): NA

SUMMA Initial Pressure: -23.5 11HG SUMMA Final Pressure: -1.0 11HG

Comments: Hard to read can #.

Cross Threaded

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106028-450

Sample Location: KAFB-106028

Port Depth: 450

Date: 10/15/2020

Screened Interval:

Sample Team: Team 2

Top: 448.75 (ft. b.g.s)

Bottom: 451.25 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 79° Sunny

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port?  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.024	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump		(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	30.72	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1357</u>	<u>1.46</u>	<u>18.26</u>	<u>10</u>	<u>31</u>

Sample ID: SV028-450-204 Duplicate Sample ID: NA

Canister Number(s): 15500755

Regulator Number(s): \_\_\_\_\_

SUMMA Initial Pressure: -23.5 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106108-025

Sample Location: KAFB-106108

Port Depth: 025

Date: 10-19-2020

Screened Interval:

Sample Team: Luke B + Nicole P

Top: 15.3 (ft. b.g.s)

Sample Team Signature: Nicole P

Bottom: 25.3 (ft. b.g.s)

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 46°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) ~~0.5~~<sup>NP</sup> 0.0

A. Pre-calculated purge volume (cu. ft)	<u>1.714</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>26</u>	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>0828</u>	<u>1.08</u>	<u>19.77</u>	<u>2</u>	<u>26</u>

Sample ID: SV108-025-204 Duplicate Sample ID: NA

Canister Number(s): ~~15C00528~~<sup>NP</sup> 15S01029

Regulator Number(s): NA

SUMMA Initial Pressure: ~~-25.0~~<sup>NP</sup> -21.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106108-050

Sample Location: KAFB-106108

Port Depth: 050

Date: 10-19-2020

Screened Interval:

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s)

Sample Team: Luke B + Nicole P

PID in Wellhead: 0.0

Sample Team  
Signature: Nicole P

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 46°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>0840</u>	<u>2.98</u>	<u>16.10</u>	<u>2</u>	<u>27</u>

Sample ID: SV108-050-204 Duplicate Sample ID: NA

Canister Number(s): 15L00884

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0" Hg SUMMA Final Pressure: -0.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106108-150

Sample Location: KAFB-106108

Port Depth: 150

Date: 10-19-2020

Screened Interval:

Top: 140.2 (ft. b.g.s)

Bottom: 150.2 (ft. b.g.s)

Sample Team: Nicole P + Luke B

Sample Team

Signature: Nicole P

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 46°F

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	<u>2.097</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>32</u>	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>0844</u>	<u>2.62</u>	<u>14.08</u>	<u>1930</u>	<u>32</u>

Sample ID: SV108-150-204

Duplicate Sample ID: NA

Canister Number(s): 15L00977

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0" Hg

SUMMA Final Pressure: -0.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106108-250Sample Location: KAFB-106108Port Depth: 250Date: 10-19-2020

Screened Interval:

Top: 240.3 (ft. b.g.s)Bottom: 250.3 (ft. b.g.s)Sample Team: Nicole P + Luke B

Sample Team

PID in Wellhead: 0.0Signature: Nicole PIs Well damaged/Flooded: Yes -  No 

If yes, describe: \_\_\_\_\_

Weather observations: 46°FPump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port?  Yes -  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	2.404	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	37	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>0848</u>	<u>2.58</u>	<u>14.52</u>	<u>5480</u>	<u>37</u>

Sample ID: SV108-250-204 Duplicate Sample ID: NACanister Number(s): 15501015Regulator Number(s): NASUMMA Initial Pressure: -25.0" Hg SUMMA Final Pressure: 0.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Annabelle SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106108-350 Sample Location: KAFB-106108

Port Depth: 350 Date: 10-19-2020

Screened Interval: Sample Team: Nicole P + Luke B

Top: 340.3 (ft. b.g.s)

Bottom: 350.3 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: Nicole P

Is Well damaged/Flooded: Yes - (No) If yes, describe: \_\_\_\_\_

Weather observations: 46°F

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port? (Yes) - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	2.711	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	41	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>0854</u>	<u>0.32</u>	<u>18.97</u>	<u>4</u>	<u>41</u>

Sample ID: SV108-350-204 Duplicate Sample ID: SV108-350-604

Canister Number(s): Primary: 15500228 Dup: 15501010

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: 26.5 "Hg D: 27.0 "Hg <sup>-27.0" Hg</sup> SUMMA Final Pressure: P: 27.0 "Hg D: 27.0 "Hg <sup>-2.5" Hg</sup>

Comments: Dup canister knob stuck post sample

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106108-450

Sample Location: KAFB-106108

Port Depth: 450

Date: 10-19-2020

Screened Interval:

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s)

Sample Team: Nicole P + Luke B

Sample Team

Signature: Nicole P

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 46°F

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	5 min 56 sec	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>0906</u>	<u>0.64</u>	<u>19.44</u>	<u>3</u>	<u>5 min</u> <u>56 sec</u>

Sample ID: SV108-450-204

Duplicate Sample ID: NA

Canister Number(s): 15500908

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0" Hg

SUMMA Final Pressure: -2.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106109-025

Sample Location: KAFB-106109

Port Depth: 025

Date: 10/13/2020

Screened Interval:

Sample Team: Team 4

Top: 15.2 (ft. b.g.s)

Sample Team Signature: Z Be

Bottom: 25.2 (ft. b.g.s)

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: Not Flooded but wet

Weather observations: 54° Sunny

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0908</u>	<u>0.66</u>	<u>20.23</u>	<u>0</u>	<u>27</u>

Sample ID: SV109-025-204 Duplicate Sample ID: NA

Canister Number(s): 15C01043

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106109-050Sample Location: KAFB-106109Port Depth: 050Date: 10/13/2020

Screened Interval:

Sample Team: Team 2Top: 40.1 (ft. b.g.s)Bottom: 50.1 (ft. b.g.s)Sample Team Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded:  Yes -  NoIf yes, describe: None Not Flooded but wetWeather observations: 52° SunnyPump ID: EA Horiba ID: EA Sample System ID: EA Manometer ID: EAWas the sample system purged of hydrocarbons before connection with well port:  Yes -  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.79	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0912</u>	<u>1.00</u>	<u>19.93</u>	<u>1</u>	<u>27</u>

Sample ID: SV109-050-204 Duplicate Sample ID: NACanister Number(s): 15C00461Regulator Number(s): NASUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106109-150

Sample Location: KAFB-106109

Port Depth: 150

Date: 10/13/2020

Screened Interval:

Sample Team: Team 2

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s)

Sample Team Signature: Z Be

PID in Wellhead: 0.0

Is Well damaged/Flooded:  Yes -  No

If yes, describe: Not flooded but wet

Weather observations: 54° Sunny

Pump ID: EA' Horiba ID: EA Sample System ID: EA' Manometer ID: EA'

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) -2.2

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) -2.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0915</u>	<u>0.20</u>	<u>18.06</u>	<u>1</u>	<u>32</u>

Sample ID: SV109-150-204 Duplicate Sample ID: NA

Canister Number(s): 15500584

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106109-250 Sample Location: KAFB-106109

Port Depth: 250 Date: 10/13/2020

Screened Interval: Sample Team: Team h

Top: 240.2 (ft. b.g.s)

Bottom: 250.2 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded:  Yes -  No If yes, describe: NOT Flooded but wet

Weather observations: 54° Sunny

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) -2.2

A. Pre-calculated purge volume (cu. ft)	2.404	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	36	(Seconds)

Post Purge Static Pressure (inWC) -2.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0918</u>	<u>0.34</u>	<u>18.70</u>	<u>3</u>	<u>36</u>

Sample ID: SV109-250-204 Duplicate Sample ID: NA

Canister Number(s): 15500761

Regulator Number(s): NA

SUMMA Initial Pressure: -27.0 49 SUMMA Final Pressure: -3.0 49

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106109-350

Sample Location: KAFB-106109

Port Depth: 350

Date: 10/13/2020

Screened Interval:

Sample Team: Team 2

Top: 340.6 (ft. b.g.s)

Bottom: 350.6 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: \_\_\_\_\_

Is Well damaged/Flooded:  Yes -  No

If yes, describe: NOT Flooded, wet

Weather observations: 59° sunny

Pump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA'

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) -2.2

A. Pre-calculated purge volume (cu. ft)	2.712	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) -2.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020 0922</u>	<u>0.26</u>	<u>20.01</u>	<u>2</u>	<u>41</u>

Sample ID: SV109-350-204 Duplicate Sample ID: NA

Canister Number(s): 15500693

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 11-19 SUMMA Final Pressure: -4.0 11-15

Comments: Rusty connect

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106109-450

Sample Location: KAFB-106109

Port Depth: 450

Date: 10/13/2020

Screened Interval:

Sample Team: Team A

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s)

Sample Team

Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No

If yes, describe: NOT Flooded, But wet

Weather observations: 59° Sunny

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -2.2

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 56	(Seconds)

Post Purge Static Pressure (inWC) -2.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0932</u>	<u>090</u>	<u>19.70</u>	<u>4</u>	<u>5 min</u> <u>56</u>

Sample ID: SV109-450-204 Duplicate Sample ID: SV109-450-604

Canister Number(s): Primary: 15C00471 Dup: 15C00562

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: -24.5"Hg D: -25.0"Hg SUMMA Final Pressure: P: -4.0"Hg D: -2.0"Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106110-025Sample Location: KAFB-106110Port Depth: 025Date: 10/13/2020

Screened Interval:

Sample Team: HR Team 2Top: 15 (ft. b.g.s)Bottom: 25 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0Signature: [Signature]Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 46° SunnyPump ID: EAL Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0807</u>	<u>0.56</u>	<u>20.32</u>	<u>1</u>	<u>27</u>

Sample ID: SV110-025-204 Duplicate Sample ID: NACanister Number(s): 15C00875Regulator Number(s): NASUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106110-050

Sample Location: KAFB-106110

Port Depth: 050

Date: 10/13/2020

Screened Interval:

Sample Team: Team 2

Top: 40.1 (ft. b.g.s)

Sample Team 2 Ben

Bottom: 50.1 (ft. b.g.s)

Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 46° Sunny

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.79	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0910</u>	<u>1.28</u>	<u>18.88</u>	<u>3</u>	<u>28</u>

Sample ID: SV110-050-204 Duplicate Sample ID: NA

Canister Number(s): 15C00313

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -9.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106110-150

Sample Location: KAFB-106110

Port Depth: 150

Date: 10/13/2020

Screened Interval:

Sample Team: Teunh

Top: 140.3 (ft. b.g.s)

Bottom: 150.3 (ft. b.g.s)

Sample Team Signature: R Blu

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 46° Sunny

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) -1.6

A. Pre-calculated purge volume (cu. ft)	2.097	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	32	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020 0813</u>	<u>2.14 2.17 NA</u>	<u>12.42</u>	<u>810</u>	<u>32</u>

Sample ID: SV110-150-204 Duplicate Sample ID: NA

Canister Number(s): 15501039

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106110-250 Sample Location: KAFB-106110

Port Depth: 250 Date: 10/13/2020

Screened Interval: Sample Team: Team 2

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s) Sample Team Signature: Z BEN

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: 46° Sunny

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.6

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	36	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0817</u>	<u>3.74</u>	<u>11.22</u>	<u>12470</u>	<u>36</u>

Sample ID: SV110-250-204 Duplicate Sample ID: SV110-250-604

Canister Number(s): Primary: 15C00566 Dup: 15C00886

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: -24.0<sup>''Hs</sup> D: -23.5<sup>''Hs</sup> SUMMA Final Pressure: P: -20<sup>''Hs</sup> D: 0.0<sup>''Hs</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106110-350 Sample Location: KAFB-106110

Port Depth: 350 Date: 10/13/2020

Screened Interval: Sample Team: Tran 2

Top: 340.2 (ft. b.g.s)

Bottom: 350.2 (ft. b.g.s) Sample Team Signature: Z B

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 46° Sunny

Pump ID: F#1 Horiba ID: F#1 Sample System ID: E#1 Manometer ID: E#1

Was the sample system purged of hydrocarbons before connection with well port: Yes -  No  LS

Initial Static Pressure (inWC) -2.1

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) -2.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0829</u>	<u>0.28</u>	<u>17.36</u>	<u>215</u>	<u>41</u>

Sample ID: SV110-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C01271

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -20 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106110-450 Sample Location: KAFB-106110Port Depth: 450 Date: 10/13/2020Screened Interval: Sample Team: Team 2Top: 440 (ft. b.g.s)Bottom: 450 (ft. b.g.s) Sample Team Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_Weather observations: 46° SunnyPump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1Was the sample system purged of hydrocarbons before connection with well port?  Yes - NoInitial Static Pressure (inWC) -2.1

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	5 min 56	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -2.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0838</u>	<u>0.50</u>	<u>19.49</u>	<u>52</u>	<u>5 min</u> <u>56</u>

Sample ID: SV110-450-204 Duplicate Sample ID: NACanister Number(s): 15C01276Regulator Number(s): NASUMMA Initial Pressure: -24.5 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amranda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106111-025 Sample Location: KAFB-106111

Port Depth: 025 Date: 10/16/2020

Screened Interval: Sample Team: Team 2

Top: 15.2 (ft. b.g.s)

Bottom: 25.2 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 72° Sunny, light Haze

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -0.8

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	25.6	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/16/2020</u> <u>1140</u>	<u>1.66</u>	<u>19.20</u>	<u>0</u>	<u>26</u>

Sample ID: SV111-025-204 Duplicate Sample ID: NA

Canister Number(s): 15C01294

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106111-050 Sample Location: KAFB-106111

Port Depth: 050 Date: 10/6/2020

Screened Interval: Sample Team: Team 2

Top: 40.1 (ft. b.g.s)

Bottom: 50.1 (ft. b.g.s) Sample Team Signature: JR

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 72° Sunny, light haze

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.79	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26.8	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1143</u>	<u>5.38</u>	<u>14.48</u>	<u>0</u>	<u>27</u>

Sample ID: SV111-050-204 Duplicate Sample ID: SV111-050-604

Canister Number(s): Primary: 15500012 Dup: 15001034

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: -26.0"Hg D: -27.0"Hg SUMMA Final Pressure: P: -2.0"Hg D: -2.0"Hg

Comments: \_\_\_\_\_

Reviewed by: Aracanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106111-150 Sample Location: KAFB-106111Port Depth: 150 Date: 10/16/2020Screened Interval: Sample Team: Team ATop: 140.3 (ft. b.g.s)Bottom: 150.3 (ft. b.g.s) Sample Team Signature: ZumaPID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_Weather observations: 72° Sunny, light hazePump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) LR 0.0 - 0.7

A. Pre-calculated purge volume (cu. ft)	2.097	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	31.4	(Seconds)

Post Purge Static Pressure (inWC) -0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/16/2020</u> <u>1148</u>	<u>9.5</u>	<u>7.25</u>	<u>1042</u>	<u>32</u>

Sample ID: SV111-150-204 Duplicate Sample ID: NACanister Number(s): 15C00084Regulator Number(s): NASUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106111-250 Sample Location: KAFB-106111

Port Depth: 250 Date: 10/16/2020

Screened Interval: Sample Team: Team 2

Top: 240.3 (ft. b.g.s)

Bottom: 250.3 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 72° Sunny, light haze

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -0.7

A. Pre-calculated purge volume (cu. ft)	2.404	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	36.1	(Seconds)

Post Purge Static Pressure (inWC) -0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/16/2020</u> <u>1152</u>	<u>11.30</u>	<u>5.46</u>	<u>1682</u>	<u>37</u>

Sample ID: SV111-250-204 Duplicate Sample ID: NA

Canister Number(s): 15500186

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106111-350 Sample Location: KAFB-106111Port Depth: 350 Date: 10/6/2020Screened Interval: Sample Team: Team 2Top: 340.4 (ft. b.g.s)Bottom: 350.4 (ft. b.g.s) Sample Team Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_Weather observations: 72° Sunny, light hazePump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAIWas the sample system purged of hydrocarbons before connection with well port: Yes - NoInitial Static Pressure (inWC) -0.7

A. Pre-calculated purge volume (cu. ft)	2.711	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	40.6	(Seconds)

Post Purge Static Pressure (inWC) -0.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1155</u>	<u>5.64</u>	<u>11.25</u>	<u>8350</u>	<u>41</u>

Sample ID: SV111-350-204 Duplicate Sample ID: NACanister Number(s): 15C00069Regulator Number(s): NASUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106111-450 Sample Location: KAFB-106111Port Depth: 450 Date: 10/16/2020Screened Interval: Sample Team: Team 2Top: 440.3 (ft. b.g.s)Bottom: 450.3 (ft. b.g.s)PID in Wellhead: 0.0 Signature: [Signature]Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: 72° Sunny, light hazePump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAIWas the sample system purged of hydrocarbons before connection with well port?  Yes  NoInitial Static Pressure (inWC) -0.6

A. Pre-calculated purge volume (cu. ft)	23.74	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 56	(Seconds)

Post Purge Static Pressure (inWC) -0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/16/2020</u> <u>1204</u>	<u>0.98</u>	<u>13.78</u>	<u>23</u>	<u>5 min</u> <u>56</u>

Sample ID: SV111-450-204 Duplicate Sample ID: NACanister Number(s): 15C00931Regulator Number(s): NASUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106112-025

Sample Location: KAFB-106112

Port Depth: 025

Date: 10-19-2020

Screened Interval:

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s)

Sample Team: Nicole P + Luke B

PID in Wellhead: 0.0

Sample Team Signature: Nicole P

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 73°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020 1228</u>	<u>0.32</u>	<u>19.26</u>	<u>1</u>	<u>26</u>

Sample ID: SV112-025-204 Duplicate Sample ID: NA

Canister Number(s): 15C00114

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0" Hg SUMMA Final Pressure: -2.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/6/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106112-050

Sample Location: KAFB-106112

Port Depth: 050

Date: 10-19-2020

Screened Interval:

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s)

Sample Team: Luke B + Nicole P

Sample Team

Signature: Nicole P

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 73°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	27	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1232</u>	<u>0.54</u>	<u>18.16</u>	<u>2</u>	<u>27</u>

Sample ID: SV112-050-204 Duplicate Sample ID: NA

Canister Number(s): 15500862

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0" Hg SUMMA Final Pressure: -5.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106112-150

Sample Location: KAFB-106112

Port Depth: 150

Date: 10-19-2020

Screened Interval:

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s)

Sample Team: Luke B + Nicole P

Sample Team Signature: Nicole Peters

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 73°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	32	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1236</u>	<u>0.74</u>	<u>17.49</u>	<u>1</u>	<u>32</u>

Sample ID: SV112-150-204 Duplicate Sample ID: NA

Canister Number(s): 15500081

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0" Hg SUMMA Final Pressure: -2.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106112-250

Sample Location: KAFB-106112

Port Depth: 250

Date: 10-19-2020

Screened Interval:

Sample Team: Nicole P + Luke B

Top: 240 (ft. b.g.s)

Sample Team Signature: Nicole P

Bottom: 250 (ft. b.g.s)

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 73°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port?  Yes  No

Initial Static Pressure (inWC) + 0.6

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) + 0.7

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1239</u>	<u>1.06</u>	<u>15.31</u>	<u>16</u>	<u>37</u>

Sample ID: SV112-250-204 Duplicate Sample ID: NA

Canister Number(s): 15C01067

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0" Hg SUMMA Final Pressure: -1.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106112-350

Sample Location: KAFB-106112

Port Depth: 350

Date: 10-19-2020

Screened Interval:

Sample Team: Luke B + Nicole P

Top: 339 (ft. b.g.s)

Sample Team Signature: Nicole P

Bottom: 349 (ft. b.g.s)

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 73°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes  No

Initial Static Pressure (inWC) ~~0.9~~<sup>NP</sup> 0.0

A. Pre-calculated purge volume (cu. ft)	2.707	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	41	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1242</u>	<u>1.10</u>	<u>14.63</u>	<u>3</u>	<u>41</u>

Sample ID: SV112-350-204 Duplicate Sample ID: NA

Canister Number(s): 15500707

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0" Hg SUMMA Final Pressure: -1.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amber Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106112-450

Sample Location: KAFB-106112

Port Depth: 450

Date: 10-19-2020

Screened Interval:

Top: 439 (ft. b.g.s)

Bottom: 449 (ft. b.g.s)

Sample Team: Nicole P + Luke B

Sample Team Signature: Nicole P

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 73°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	23.676	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	5 min 56 sec	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1252</u>	<u>0.98</u>	<u>16.23</u>	<u>42</u>	<u>5 min</u> <u>56 sec</u>

Sample ID: SV112-450-204 Duplicate Sample ID: SV112-450-604

Canister Number(s): Primary: 155009666 Dup: 15500141

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: 25.0" Hg D: 25.0" Hg SUMMA Final Pressure: P: -1.5" Hg D: -1.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106113-020 Sample Location: KAFB-106113

Port Depth: 020 Date: 10/13/2020

Screened Interval: Sample Team: Team 1

Top: 10 (ft. b.g.s)

Bottom: 20 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.1 "WC

A. Pre-calculated purge volume (cu. ft)	1.697	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) -0.2 "WC

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0807</u>	<u>0.66</u>	<u>20.96</u>	<u>0</u>	<u>26</u>

Sample ID: SV113-020-204 Duplicate Sample ID: NA

Canister Number(s): 155 00152

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106113-050 Sample Location: KAFB-106113

Port Depth: 050 Date: 10/13/2020

Screened Interval: Sample Team: Team 1

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.2 "WC

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	27	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.2 "WC

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0809</u>	<u>0.62</u>	<u>20.73</u>	<u>0</u>	<u>32</u>

Sample ID: SV113-050-204 Duplicate Sample ID: NA

Canister Number(s): ISC 01187

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -3.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106113-150 Sample Location: KAFB-106113

Port Depth: 150 Date: 10/13/2020

Screened Interval: Sample Team: Team 1

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: 

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.6 "WC

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	32	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.7 "WC

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0812</u>	<u>0.48</u>	<u>20.49</u>	<u>0</u>	<u>32</u>

Sample ID: SV113-150-204 Duplicate Sample ID: NA

Canister Number(s): 15500536

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106113-250 Sample Location: KAFB-106113

Port Depth: 250 Date: 10/13/2020

Screened Interval: Sample Team: Team 1

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SM Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -1.8 "WC

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	37	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.9 "WC

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0815</u>	<u>0.86</u>	<u>19.74</u>	<u>0</u>	<u>37</u>

Sample ID: SV113-250-204 Duplicate Sample ID: NA

Canister Number(s): 15C00698

Regulator Number(s): N/A

SUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106113-350Sample Location: KAFB-106113Port Depth: 350Date: 10/13/2020

Screened Interval:

Top: 340 (ft. b.g.s)Bottom: 350 (ft. b.g.s)Sample Team: Team 1

Sample Team

Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skiesPump ID: 1Horiba ID: 2Sample System ID: S1AManometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) -2.0 <sup>inWC</sup>

A. Pre-calculated purge volume (cu. ft)	<u>2.71</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.)	<u>41</u>	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -2.1 <sup>inWC</sup>

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0819</u>	<u>0.52</u>	<u>18.45</u>	<u>121</u>	<u>41</u>

Sample ID: SV113-350-204Duplicate Sample ID: NACanister Number(s): ISS 00517Regulator Number(s): N/ASUMMA Initial Pressure: -26.5 <sup>inHg</sup>SUMMA Final Pressure: -5.0 <sup>inHg</sup>

Comments: \_\_\_\_\_

Reviewed by: Aracanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106113-450 Sample Location: KAFB-106113

Port Depth: 450 Date: 10/13/2020

Screened Interval: Sample Team: Team 1

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s) Sample Team Signature: 

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -2.1 "WC

A. Pre-calculated purge volume (cu. ft)	23.725 (Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0 (SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5min 56sec (Seconds)

Post Purge Static Pressure (inWC) -2.1 "WC

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0829</u>	<u>2.02</u>	<u>14.18</u>	<u>1251</u>	<u>5min 56sec</u>

Sample ID: SV113-450-204 Duplicate Sample ID: NA

Canister Number(s): 15C00610

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106114-025 Sample Location: KAFB-106114

Port Depth: 025 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0-0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.1

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	26	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1247</u>	<u>0.64</u>	<u>19.07</u>	<u>2</u>	<u>26</u>

Sample ID: SV114-025-204 Duplicate Sample ID: NA

Canister Number(s): 15L00317

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Aracanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106114-050 Sample Location: KAFB-106114

Port Depth: 050 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature:

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1250</u>	<u>0.70</u>	<u>18.85</u>	<u>0</u>	<u>27</u>

Sample ID: SV114-050-204 Duplicate Sample ID: NA

Canister Number(s): 1SC00176

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

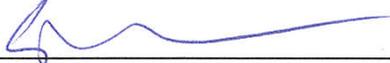
Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106114-150 Sample Location: KAFB-106114

Port Depth: 150 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s) Sample Team Signature: 

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.5

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) -0.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1253</u>	<u>0.60</u>	<u>18.37</u>	<u>0.0</u>	<u>32</u>

Sample ID: SV114-150-204 Duplicate Sample ID: NA

Canister Number(s): 1SC00247

Regulator Number(s): N/A

SUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Arcunda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106114-250 Sample Location: KAFB-106114

Port Depth: 250 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 235 (ft. b.g.s)

Bottom: 245 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.5

A. Pre-calculated purge volume (cu. ft)	2.388	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	36	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1257</u>	<u>1.04</u>	<u>16.54</u>	<u>0</u>	<u>36</u>

Sample ID: SV114-250-204 Duplicate Sample ID: SV114-250-604

Canister Number(s): Primary: ISS01050 Dup: 1SC00877

Regulator Number(s): Primary: N/A Dup: N/A

SUMMA Initial Pressure: P: -27.0"Hg D: -27.5"Hg SUMMA Final Pressure: P: -2.0"Hg D: 0.0"Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106114-350 Sample Location: KAFB-106114

Port Depth: 350 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -0.6

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) -0.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1301</u>	<u>1.28</u>	<u>13.31</u>	<u>5</u>	<u>41</u>

Sample ID: SV114-350-204 Duplicate Sample ID: NA

Canister Number(s): 15500075

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -4.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106114-450 Sample Location: KAFB-106114

Port Depth: 450 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 439.6 (ft. b.g.s)

Bottom: 449.6 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: 

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.7

A. Pre-calculated purge volume (cu. ft)	<u>23.706</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>5 min 54</u>	(Seconds)

Post Purge Static Pressure (inWC) -0.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1310</u>	<u>5.06</u>	<u>8.40</u>	<u>4360</u>	<u>5 min 56 secs</u>

Sample ID: SV114-450-204 Duplicate Sample ID: NA

Canister Number(s): 1SC01103

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -0.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106115-025

Sample Location: KAFB-106115

Port Depth: 025

Date: 10/13/2020

Screened Interval:

Top: 14.6 (ft. b.g.s)

Bottom: 24.6 (ft. b.g.s)

Sample Team: Team 1

Sample Team

Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.2

A. Pre-calculated purge volume (cu. ft)	<u>1.711</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>26</u>	(Seconds)

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0905</u>	<u>0.54</u>	<u>20.36</u>	<u>0</u>	<u>26</u>

Sample ID: SV115-025-204

Duplicate Sample ID: SV115-025-604

Canister Number(s): Primary: ISS00092 ~~AR~~ Dup: ISC01234 ~~AR~~

Regulator Number(s): Primary: N/A ~~AR~~ Dup: N/A ~~AR~~

SUMMA Initial Pressure: P: -25.0 "Hg D: -25.0 "Hg SUMMA Final Pressure: P: -2.5 "Hg D: -4.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106115-050 Sample Location: KAFB-106115

Port Depth: 050 Date: 10/13/2020

Screened Interval: Sample Team: Team 1

Top: 39.6 (ft. b.g.s)

Bottom: 49.6 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -0.3

A. Pre-calculated purge volume (cu. ft)	1.788	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	27	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0909</u>	<u>0.60</u>	<u>20.39</u>	<u>0</u>	<u>27</u>

Sample ID: SV115-050-204 Duplicate Sample ID: NA

Canister Number(s): ISC00935

Regulator Number(s): N/A

SUMMA Initial Pressure: -24.5 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106115-150 Sample Location: KAFB-106115

Port Depth: 150 Date: 10/13/2020

Screened Interval: Sample Team: Team 1

Top: 144.6 (ft. b.g.s)

Bottom: 154.6 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.9

A. Pre-calculated purge volume (cu. ft)	2.11	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	32	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -2.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0912</u>	<u>0.60</u>	<u>19.63</u>	<u>1</u>	<u>32</u>

Sample ID: SV115-150-204 Duplicate Sample ID: NA

Canister Number(s): 15500039

Regulator Number(s): AVG 04536

SUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -4.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106115-250 Sample Location: KAFB-106115

Port Depth: 250 Date: 10/13/2020

Screened Interval: Sample Team: Team 1

Top: 239.6 (ft. b.g.s)

Bottom: 249.6 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -2.2

A. Pre-calculated purge volume (cu. ft)	2.402	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) -2.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0916</u>	<u>0.32</u>	<u>19.90</u>	<u>0</u>	<u>37</u>

Sample ID: SV115-250-204 Duplicate Sample ID: NA

Canister Number(s): 15500764

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -4.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106115-350 Sample Location: KAFB-106115

Port Depth: 350 Date: 10/13/2020

Screened Interval: Sample Team: Team 1

Top: 339.6 (ft. b.g.s)

Bottom: 349.6 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -2.3

A. Pre-calculated purge volume (cu. ft)	2.709	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	41	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -2.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0920</u>	<u>0.34</u>	<u>19.81</u>	<u>1</u>	<u>41</u>

Sample ID: SV115-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C01027

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106115-450 Sample Location: KAFB-106115

Port Depth: 450 Date: 10/13/2020

Screened Interval: Sample Team: Team 1

Top: 439.6 (ft. b.g.s)

Bottom: 449.6 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -2.3

A. Pre-calculated purge volume (cu. ft)	23.706	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)		(Seconds)
1. Equals A/B*60 (round up)	<u>5min 56sec</u>	

Post Purge Static Pressure (inWC) -2.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>0931</u>	<u>1.14</u>	<u>19.05</u>	<u>351</u>	<u>5min 56sec</u>

Sample ID: SV115-450-204 Duplicate Sample ID: NA

Canister Number(s): 1SC00158

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106116-025 Sample Location: KAFB-106116

Port Depth: 025 Date: 10/6/2020

Screened Interval: Sample Team: Team 2

Top: 10 (ft. b.g.s)

Bottom: 19.45 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: \_\_\_\_\_

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 55° Sunny

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.606	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	24.09	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0819</u>	<u>0.36</u>	<u>20.12</u>	<u>2</u>	<u>25</u>

Sample ID: SV116-025-204 Duplicate Sample ID: NA

Canister Number(s): 15500946

Regulator Number(s): NA

SUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106116-050 Sample Location: KAFB-106116

Port Depth: 050 Date: 10/6/2020

Screened Interval: Sample Team: Team 2

Top: 40 (ft. b.g.s)

Bottom: 49.45 (ft. b.g.s) Sample Team Signature: Z. Ben

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: \_\_\_\_\_

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.698	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	25.3	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0823</u>	<u>0.58</u>	<u>17.85</u>	<u>3</u>	<u>25.5</u>

Sample ID: SV116-050-204 Duplicate Sample ID: NA

Canister Number(s): 15500053

Regulator Number(s): NA

SUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -3.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106116-150 Sample Location: KAFB-106116

Port Depth: 150 Date: 10/6/2020

Screened Interval: Sample Team: Team 2

Top: 140 (ft. b.g.s)

Bottom: 149.45 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: 55° Sunny

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -0.7

A. Pre-calculated purge volume (cu. ft)	2.005	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	30.07	(Seconds)

Post Purge Static Pressure (inWC) -0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0825</u>	<u>0.42</u>	<u>19.08</u>	<u>3</u>	<u>31</u>

Sample ID: SV116-150-204 Duplicate Sample ID: NA

Canister Number(s): 15C00726

Regulator Number(s): NA

SUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106116-250 Sample Location: KAFB-106116

Port Depth: 250 Date: 10/6/2020

Screened Interval: Sample Team: Team 2

Top: 240 (ft. b.g.s)

Bottom: 249.45 (ft. b.g.s) Sample Team Signature: R. B. H.

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: 55° Sunny

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port: Yes No

Initial Static Pressure (inWC) -0.7

A. Pre-calculated purge volume (cu. ft)	2.311	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	34.6	(Seconds)

Post Purge Static Pressure (inWC) -0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0829</u>	<u>1.08</u>	<u>15.02</u>	<u>3</u>	<u>35</u>

Sample ID: SV116-250-204 Duplicate Sample ID: NA

Canister Number(s): 15501002

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106116-350 Sample Location: KAFB-106116

Port Depth: 350 Date: 10/6/2020

Screened Interval: Sample Team: Team 4

Top: 340 (ft. b.g.s)

Bottom: 349.45 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 55° Sunny

Pump ID: EAI Horiba ID: FA2 Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.7

A. Pre-calculated purge volume (cu. ft)	2.618	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	39.27	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0832</u>	<u>1.82</u>	<u>13.42</u>	<u>107</u>	<u>40</u>

Sample ID: SV116-350-204 Duplicate Sample ID: SV116-350-604

Canister Number(s): Primary: 15500895 Dup: 15500895

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: -15.0" H<sub>2</sub>O D: -26.0" H<sub>2</sub>O SUMMA Final Pressure: P: -4.0" H<sub>2</sub>O D: -4.5" H<sub>2</sub>O

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106116-450 Sample Location: KAFB-106116

Port Depth: 450 Date: 10/6/2020

Screened Interval: Sample Team: Team 2

Top: 440 (ft. b.g.s)

Bottom: 448.95 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 58° and sunny

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.0

A. Pre-calculated purge volume (cu. ft)	23.502	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	5 min 40	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0842</u>	<u>7.16</u>	<u>7.12</u>	<u>5520</u>	<u>5 min 50</u>

Sample ID: SV116-450-204 Duplicate Sample ID: NA

Canister Number(s): 15500968

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amber Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106117-025

Sample Location: KAFB-106117

Port Depth: 025

Date: 10/6/2020<sup>SN</sup>

Screened Interval:

Sample Team: Team H

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 57° Sunny, slight haze

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port?  Yes -  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	25.6	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020<sup>SN</sup></u> <u>0909</u>	<u>2.04</u>	<u>18.47</u>	<u>1</u>	<u>26</u>

Sample ID: SV117-025-204 Duplicate Sample ID: NA

Canister Number(s): 15C00502

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amardo Smith

Review Date: 10/17/2020<sup>AS</sup>



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106117-050 Sample Location: KAFB-106117

Port Depth: 050 Date: 10/01/2020<sup>15</sup>

Screened Interval: Sample Team: Team 2

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 59 Sunny, slight haze

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	26.9	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/01/2020<sup>15</sup></u> <u>0911</u>	<u>3.52</u>	<u>15.30</u>	<u>1</u>	<u>27</u>

Sample ID: SV117-050-204 Duplicate Sample ID: NA

Canister Number(s): 15500259

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 1 1/4 SUMMA Final Pressure: -3.0 1 1/4

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106117-150 Sample Location: KAFB-106117

Port Depth: 150 Date: 10/6/2020<sup>MS</sup>

Screened Interval: Sample Team: Titan 2

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: 57° Sunny, slight haze

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	31.4	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020<sup>B</sup></u> <u>0914</u>	<u>4.56</u>	<u>10.96</u>	<u>1</u>	<u>32</u>

Sample ID: SV117-150-204 Duplicate Sample ID: NA

Canister Number(s): 15501071

Regulator Number(s): NA

SUMMA Initial Pressure: -27.5 "Hg SUMMA Final Pressure: -4.0 "Hg

Comments: Re Purge Pre Pressure -0.2

Post Pressure -0.8

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106117-250 Sample Location: KAFB-106117

Port Depth: 250 Date: 10/6/2020<sup>15</sup>

Screened Interval: Sample Team: Team 2

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 57° sunny, slight haze

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -0.9

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	36.0	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020<sup>15</sup></u> <u>0920</u>	<u>13.20</u>	<u>1.57</u>	<u>19</u>	<u>36</u>

Sample ID: SV117-250-204 Duplicate Sample ID: NA

Canister Number(s): 15501052

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 <sup>11/16</sup> SUMMA Final Pressure: -0.5 <sup>11/16</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



## Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106117-350 Sample Location: KAFB-106117Port Depth: 350 Date: 10/6/2020Screened Interval: Sample Team: Team 1Top: 340 (ft. b.g.s)Bottom: 350 (ft. b.g.s) Sample Team Signature: [Signature]PID in Wellhead: 0.10Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: 57° Sunny, slight hazePump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAIWas the sample system purged of hydrocarbons before connection with well port:  Yes - No Initial Static Pressure (inWC) -0.9

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	<del>40.6</del> 41 <sup>15</sup>	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0923</u>	<u>9.58</u>	<u>6.11</u>	<u>366</u>	<u>40.6</u> 41 <sup>15</sup>

Sample ID: SV117-350-204 Duplicate Sample ID: NACanister Number(s): 15C00570Regulator Number(s): NASUMMA Initial Pressure: -22.5 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: \_\_\_\_\_



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106117-450 Sample Location: KAFB-106117

Port Depth: 450 Date: 10/6/2020<sup>15</sup>

Screened Interval: Sample Team: Jean ~~A~~ LB Jean 2

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: 57° Sunny, slight haze

Pump ID: EA Horiba ID: EA Sample System ID: EA Manometer ID: EA

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -1.2

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<del>LB 4</del> 4	(SCFM)
C. Purge time (Sec.)	5 min 56	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020<sup>15</sup> 0934</u>	<u>13.14</u>	<u>1.07</u>	<u>6480</u>	<u>5 min 57</u>

Sample ID: SV117-450-204 Duplicate Sample ID: NA

Canister Number(s): 1SC01055

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106118-025Sample Location: KAFB-106118Port Depth: 025Date: 10-19-2020

Screened Interval:

Top: 15 (ft. b.g.s)Bottom: 25 (ft. b.g.s)Sample Team: Nicole P + Luke BPID in Wellhead: 0.0

Sample Team

Signature: Nicole PIs Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 55°F, sunnyPump ID: 1Horiba ID: 1Sample System ID: 1Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>0950</u>	<u>0.64</u>	<u>19.72</u>	<u>4</u>	<u>26</u>

Sample ID: SV118-025-204Duplicate Sample ID: NACanister Number(s): 15500123Regulator Number(s): NASUMMA Initial Pressure: -23.0" HgSUMMA Final Pressure: -1.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106118-050 Sample Location: KAFB-106118

Port Depth: 050 Date: 10-19-2020

Screened Interval: Sample Team: Nicole P + Luke B

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: Nicole P

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: 55°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port?  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>0953</u>	<u>0.96</u>	<u>18.85</u>	<u>4</u>	<u>30</u>

Sample ID: SV118-050-204 Duplicate Sample ID: NA

Canister Number(s): 15C00670

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0" Hg SUMMA Final Pressure: 0.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106118-160Sample Location: KAFB-106118Port Depth: 160Date: 10-19-2020

Screened Interval:

Top: 150 (ft. b.g.s)Bottom: 160 (ft. b.g.s)Sample Team: Nicole P + Luke B

Sample Team

Signature: Nicole PPID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 55°F, sunnyPump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	<u>2.127</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>32</u>	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>0957</u>	<u>1.12</u>	<u>16.33</u>	<u>152</u>	<u>32</u>

Sample ID: SV118-160-204Duplicate Sample ID: NACanister Number(s): 15C00144Regulator Number(s): NASUMMA Initial Pressure: -24.0" HgSUMMA Final Pressure: -0.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106118-265Sample Location: KAFB-106118Port Depth: 265Date: 10-19-2020

Screened Interval:

Top: 255 (ft. b.g.s)Bottom: 265 (ft. b.g.s)Sample Team: Nicole P + Luke BPID in Wellhead: 0.0Sample Team  
Signature: Nicole PIs Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 55°F, sunnyPump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	2.449	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1000</u>	<u>1.26</u>	<u>16.37</u>	<u>1458</u>	<u>37</u>

Sample ID: SV118-265-204Duplicate Sample ID: NACanister Number(s): 15501012Regulator Number(s): NASUMMA Initial Pressure: -24.0" HgSUMMA Final Pressure: 0.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106118-350 Sample Location: KAFB-106118Port Depth: 350 Date: 10-19-2020

Screened Interval:

Top: 340 (ft. b.g.s)Bottom: 350 (ft. b.g.s)Sample Team: Nicole P + Luke BSample Team  
Signature: Nicole PPID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: 55°F, sunnyPump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	<u>2.71</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>41</u>	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1004</u>	<u>0.92</u>	<u>16.13</u>	<u>312</u>	<u>41</u>

Sample ID: SV118-350-204 Duplicate Sample ID: NACanister Number(s): 15500595Regulator Number(s): NASUMMA Initial Pressure: -23.0" Hg SUMMA Final Pressure: -0.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106118-450

Sample Location: KAFB-106118

Port Depth: 450

Date: 10-19-2020

Screened Interval:

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s)

Sample Team: Nicole P + Luke B

Sample Team

Signature: Nicole P

PID in Wellhead: 0.0

Is Well damaged/Flooded:  Yes  No

If yes, describe: Slightly rusted

Weather observations: 55°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	<u>23.725</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>5min 56sec</u>	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1013</u>	<u>1.66</u>	<u>15.06</u>	<u>35</u>	<u>5 min</u> <u>56 sec</u>

Sample ID: SV118-450-204

Duplicate Sample ID: SV118-450-604

Canister Number(s): Primary: 15C00008

Dup: 15500219

Regulator Number(s): Primary: NA

Dup: NA

SUMMA Initial Pressure: P:-24.0"Hg D:-25.0"Hg SUMMA Final Pressure: P:-2.5"Hg D:-1.5"Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda Smith

Review Date: 11/6/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106119-025

Sample Location: KAFB-106119

Port Depth: 025

Date: 10/20/2020

Screened Interval:

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s)

Sample Team: 1

Sample Team

Signature:

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 72°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.1

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	26	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1325</u>	<u>4.18</u>	<u>10.21</u>	<u>0</u>	<u>26</u>

Sample ID: SV119-025-204

Duplicate Sample ID: NA

Canister Number(s): 15500008

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg

SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/6/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106119-050

Sample Location: KAFB-106119

Port Depth: 050

Date: 10/20/2020

Screened Interval:

Top: 40 (ft. b.g.s)

Sample Team: 1

Bottom: 50 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, 72°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.3

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1327</u>	<u>11.34</u>	<u>1.91</u>	<u>0</u>	<u>27</u>

Sample ID: SV119-050-204 Duplicate Sample ID: NA

Canister Number(s): 15500026

Regulator Number(s): N/A

SUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106119-150 Sample Location: KAFB-106119

Port Depth: 150 Date: 10/20/2020

Screened Interval: Sample Team: 1

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s) Sample Team Signature:

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, 72°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SLA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.9

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) 0.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1330</u>	<u>14.12</u>	<u>1.73</u>	<u>561</u>	<u>32</u>

Sample ID: SV119-150-204 Duplicate Sample ID: NA

Canister Number(s): 15500146

Regulator Number(s): N/A

SUMMA Initial Pressure: -24.0 <sup>14</sup>Hg SUMMA Final Pressure: -5.0 <sup>14</sup>Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106119-250 Sample Location: KAFB-106119

Port Depth: 250 Date: 10/20/2020

Screened Interval: Top: 240 (ft. b.g.s) Sample Team: [Signature] SN 1

Bottom: 250 (ft. b.g.s) Sample Team: [Signature]

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~72°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.9

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) 1.0

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1333</u>	<u>7.58</u>	<u>9.87</u>	<u>5550</u>	<u>37</u>

Sample ID: SV119-250-204 Duplicate Sample ID: NA

Canister Number(s): 15C00749

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106119-350

Sample Location: KAFB-106119

Port Depth: 350

Date: 10/20/2020

Screened Interval:

Top: 340 (ft. b.g.s)

Sample Team: 1

Bottom: 350 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 72°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) 1.1

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<del>4.1</del> <sup>SN</sup> 4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) 1.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1337</u>	<u>5.48</u>	<u>12.31</u>	<u>3590</u>	<u>41</u>

Sample ID: SV119-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C00648

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106119-450 Sample Location: KAFB-106119

Port Depth: 450 Date: 10/20/2020

Screened Interval: Sample Team: 1

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: 

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 72°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) 1.1

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	5min 56	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 1.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1345</u>	<u>7.18</u>	<u>5.45</u>	<u>1745</u>	<u>5min 56secs</u>

Sample ID: SV119-450-204 Duplicate Sample ID: NA

Canister Number(s): 15500169

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: Well took 40 secs to stabilize

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106120-025 Sample Location: KAFB-106120

Port Depth: 025 Date: 10/12/2020

Screened Interval: Sample Team: Team 1

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature:

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~60°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port?  Yes  No

Initial Static Pressure (inWC) -0.1

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	26	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0909</u>	<u>0.74</u>	<u>20.19</u>	<u>0</u>	<u>26</u>

Sample ID: SV120-025-204 Duplicate Sample ID: SV120-025-604

Canister Number(s): Primary: 15500074 ~~15500577~~ <sup>SN</sup> Dup: 15500257

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: -28.0 "Hg D: -26.5 "Hg SUMMA Final Pressure: P: -3.5 "Hg D: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106120-050 Sample Location: KAFB-106120

Port Depth: 050 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~65°F

Pump ID: 1 Horiba ID: 2 Sample System ID: JIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes No

Initial Static Pressure (inWC) -0.3

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	27	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0927</u>	<u>2.08</u>	<u>18.95</u>	<u>0</u>	<u>27</u>

Sample ID: SV120-050-204 Duplicate Sample ID: NA

Canister Number(s): 15500534

Regulator Number(s): N/A

SUMMA Initial Pressure: -27.5 <sup>inHg</sup> SUMMA Final Pressure: -3.0 <sup>inHg</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106120-150 Sample Location: KAFB-106120

Port Depth: 150 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~65°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -1.8

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) -1.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0930</u>	<u>0.42</u>	<u>19.91</u>	<u>0</u>	<u>32</u>

Sample ID: SV120-150-204 Duplicate Sample ID: NA

Canister Number(s): 15C00959

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amberla Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106120-250

Sample Location: KAFB-106120

Port Depth: 250

Date: 10/12/2020

Screened Interval:

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s)

Sample Team: 1

Sample Team

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~65°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.9

A. Pre-calculated purge volume (cu. ft)	<u>2.403</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.)	<u>37</u>	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0933</u>	<u>0.38</u>	<u>19.88</u>	<u>0</u>	<u>37</u>

Sample ID: SV120-250-204

Duplicate Sample ID: NA

Canister Number(s): 15C01370

Regulator Number(s): N/A

SUMMA Initial Pressure: -28.0 "Hg

SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106120-350

Sample Location: KAFB-106120

Port Depth: 350

Date: 10/12/2020

Screened Interval:

Sample Team: 1

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~65°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.9

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) -1.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0937</u>	<u>0.40</u>	<u>19.16</u>	<u>6</u>	<u>41</u>

Sample ID: SV120-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C00692

Regulator Number(s): HAS<sup>SN</sup> AVG04175

SUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106120-450 Sample Location: KAFB-106120

Port Depth: 450 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 434 (ft. b.g.s)

Bottom: 444 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~65°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.8

A. Pre-calculated purge volume (cu. ft)	23.431	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 52	(Seconds)

Post Purge Static Pressure (inWC) -1.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0946</u>	<u>0.58</u>	<u>18.36</u>	<u>19</u>	<u>5 min 52 sec</u>

Sample ID: SV120-450-204 Duplicate Sample ID: NA

Canister Number(s): 15500070

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106121-025 Sample Location: KAFB-106121

Port Depth: 025 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s) Sample Team Signature: 

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~70°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	26	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1044</u>	<u>1.10</u>	<u>19.55</u>	<u>0</u>	<u>26</u>

Sample ID: SV121-025-204 Duplicate Sample ID: NA

Canister Number(s): 1SC01194

Regulator Number(s): AV604639

SUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106121-050Sample Location: KAFB-106121Port Depth: 050Date: 10/12/2020

Screened Interval:

Sample Team: 1Top: 40 (ft. b.g.s)Bottom: 50 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0Signature: [Signature]Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear, ~70°FPump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) -0.1

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	27	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1047</u>	<u>1.18</u>	<u>19.66</u>	<u>0</u>	<u>27</u>

Sample ID: SV121-050-204 Duplicate Sample ID: NACanister Number(s): 15500715Regulator Number(s): N/ASUMMA Initial Pressure: -27.0 "Hg" SUMMA Final Pressure: -2.0 "Hg"

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106121-145Sample Location: KAFB-106121Port Depth: 145Date: 10/12/2020

Screened Interval:

Sample Team: SA SW 1Top: 135 (ft. b.g.s)Bottom: 145 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0Signature: [Signature]Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~70°FPump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) -1.7

A. Pre-calculated purge volume (cu. ft)	2.081	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	32	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/20</u> <u>1050</u>	<u>0.32</u>	<u>19.82</u>	<u>0</u>	<u>32</u>

Sample ID: SV121-145-204Duplicate Sample ID: SV121-145-604Canister Number(s): Primary: 15L00063Dup: 15L01158Regulator Number(s): Primary: AV604166Dup: N/ASUMMA Initial Pressure: P: -27.0" Hg D: -24.0" Hg SUMMA Final Pressure: P: -3.0" Hg D: -1.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Annarda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106121-250 Sample Location: KAFB-106121

Port Depth: 250 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: B.O

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~70°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) -1.9

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	37	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1055</u>	<u>0.28</u>	<u>19.76</u>	<u>0</u>	<u>37</u>

Sample ID: SV121-250-204 Duplicate Sample ID: NA

Canister Number(s): 15C00929

Regulator Number(s): AV604906

SUMMA Initial Pressure: -27.5 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106121-350 Sample Location: KAFB-106121

Port Depth: 350 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~70°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -1.8

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) -1.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1059</u>	<u>0.34</u>	<u>19.67</u>	<u>0</u>	<u>41</u>

Sample ID: SV121-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C00478

Regulator Number(s): N/A

SUMMA Initial Pressure: -22.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106121-450 Sample Location: KAFB-106121

Port Depth: 450 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 434 (ft. b.g.s)

Bottom: 444 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~70°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -1.8

A. Pre-calculated purge volume (cu. ft)	23.431	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	5 min 52	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.9

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1107</u>	<u>0.46</u>	<u>19.62</u>	<u>6</u>	<u>5 min 52 sec</u>

Sample ID: SV121-450-204 Duplicate Sample ID: NA

Canister Number(s): 15500503

Regulator Number(s): N/A

SUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

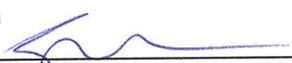
SVMP ID: KAFB-106122-025 Sample Location: KAFB-106122

Port Depth: 025 Date: 10/12/2020

Screened Interval: Sample Team: Team 1

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s)

Sample Team Signature: 

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~60°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.1

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) -0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0815</u>	<u>0.50</u>	<u>21.09</u>	<u>0</u>	<u>30</u>

Sample ID: SV122-025-204 Duplicate Sample ID: NA

Canister Number(s): 15501018

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amranda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106122-050 Sample Location: KAFB-106122

Port Depth: 050 Date: 10/12/2020

Screened Interval: Sample Team: Team 1

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s) Sample Team Signature:

PID in Wellhead: 8.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 60°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.3

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	27	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0819</u>	<u>1.40</u>	<u>20.02</u>	<u>0</u>	<u>27</u>

Sample ID: SV122-050-204 Duplicate Sample ID: NA

Canister Number(s): 15C00894

Regulator Number(s): NA

SUMMA Initial Pressure: -27.5 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smitin

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106122-150 Sample Location: KAFB-106122

Port Depth: 150 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s)

Sample Team

PID in Wellhead: 000 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~60°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -1.5

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	32	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0822</u>	<u>9.36</u>	<u>20.23</u>	<u>0</u>	<u>32</u>

Sample ID: SV122-150-204 Duplicate Sample ID: NA

Canister Number(s): 15500973

Regulator Number(s): NA

SUMMA Initial Pressure: -24.5 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106122-250 Sample Location: KAFB-106122

Port Depth: 250 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~60°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -1.6

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) -1.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0826</u>	<u>0.50</u>	<u>20.10</u>	<u>0</u>	<u>37</u>

Sample ID: SV122-250-204 Duplicate Sample ID: NA

Canister Number(s): 15C00536

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: \_\_\_\_\_

Review Date: \_\_\_\_\_



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106122-350 Sample Location: KAFB-106122

Port Depth: 350 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~60°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -1.5

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) -1.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0829</u>	<u>0.40</u>	<u>19.90</u>	<u>0</u>	<u>41</u>

Sample ID: SV122-350-204 Duplicate Sample ID: NA

Canister Number(s): +5601290 SA 15500782

Regulator Number(s): N/A

SUMMA Initial Pressure: -22.0 "Hg <sup>-26.0</sup> SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: \_\_\_\_\_

Review Date: \_\_\_\_\_



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106122-450 Sample Location: KAFB-106122

Port Depth: 450 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 434 (ft. b.g.s)

Bottom: 444 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~60°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -1.6

A. Pre-calculated purge volume (cu. ft)	23.431	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5min 52	(Seconds)

Post Purge Static Pressure (inWC) -1.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0838</u>	<u>0.52</u>	<u>19.86</u>	<u>19</u>	<u>5min52secs</u>

Sample ID: SV122-450-204 Duplicate Sample ID: NA

Canister Number(s): 15C00446

Regulator Number(s): NA

SUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: \_\_\_\_\_

Review Date: \_\_\_\_\_



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

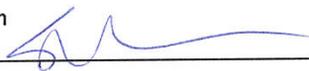
SVMP ID: KAFB-106123-025 Sample Location: KAFB-106123

Port Depth: 025 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s)

Sample Team Signature: 

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1145</u>	<u>0.78</u>	<u>19.98</u>	<u>1</u>	<u>26</u>

Sample ID: SV123-025-204 Duplicate Sample ID: NA

Canister Number(s): 15C00015

Regulator Number(s): AV6 05087

SUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106123-050 Sample Location: KAFB-106123

Port Depth: 050 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	27	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1149</u>	<u>1.64</u>	<u>19.03</u>	<u>0</u>	<u>27</u>

Sample ID: SV123-050-204 Duplicate Sample ID: NA

Canister Number(s): 15C01068

Regulator Number(s): N/A

SUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106123-150 Sample Location: KAFB-106123

Port Depth: 150 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, -75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SiA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.7

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) -1.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1152</u>	<u>0.26</u>	<u>19.58</u>	<u>0</u>	<u>32</u>

Sample ID: SV123-150-204 Duplicate Sample ID: NA

Canister Number(s): 15C01359

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

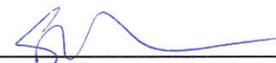
SVMP ID: KAFB-106123-250 Sample Location: KAFB-106123

Port Depth: 250 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: 

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.6

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) -1.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1155</u>	<u>0.38</u>	<u>19.54</u>	<u>0</u>	<u>37</u>

Sample ID: SV123-250-204 Duplicate Sample ID: NA

Canister Number(s): 15C01098

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Aracanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106123-350 Sample Location: KAFB-106123

Port Depth: 350 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.7

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) -1.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1158</u>	<u>0.42</u>	<u>19.13</u>	<u>0</u>	<u>41</u>

Sample ID: SV123-350-204 Duplicate Sample ID: NA

Canister Number(s): 15500<sup>720</sup>705<sup>SN</sup>

Regulator Number(s): ~~AG05114<sup>SN</sup>~~ N/A

SUMMA Initial Pressure: ~~25.0~~ 27.5<sup>SN</sup> "Hg SUMMA Final Pressure: ~~1.5~~ 1.0<sup>SN</sup> "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106123-450 Sample Location: KAFB-106123

Port Depth: 450 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 432 (ft. b.g.s)

Bottom: 442 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.6

A. Pre-calculated purge volume (cu. ft)	23.333	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	5 min 50 secs	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1208</u>	<u>0.84</u>	<u>18.26</u>	<u>1</u>	<u>5 min 50 sec</u>

Sample ID: SV123-450-204 Duplicate Sample ID: NA

Canister Number(s): ~~15C00792~~ SN <sup>59350</sup> 15500744

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.5 26.5 "Hg SUMMA Final Pressure: -2.5 3.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda Smifin

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106124-025Sample Location: KAFB-106124Port Depth: 025Date: 10/05/2020

Screened Interval:

Top: 15.1 (ft. b.g.s)Bottom: 25 (ft. b.g.s)Sample Team: Team 2PID in Wellhead: 0.0

Sample Team

Signature: [Signature]Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny 62°FPump ID: EAIHoriba ID: EAZSample System ID: EAIManometer ID: EAIWas the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.696	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	50.88	(Seconds)

Post Purge Static Pressure (inWC) 0.00

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<del>10/08</del> 10/15/2020 0840	0.34	20.60	0	50.82

Sample ID: SV124-025-204Duplicate Sample ID: NACanister Number(s): ISS 00135Regulator Number(s): NASUMMA Initial Pressure: -25.0" HgSUMMA Final Pressure: -1.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda SmithReview Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106124-050 Sample Location: KAFB-106124

Port Depth: 050 Date: 10/5/2020

Screened Interval: Sample Team: Tray 2

Top: 40.1 (ft. b.g.s)

Bottom: 50 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny 62°

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.773 (Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>2.4 LB</u> (SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>43.19</u> (Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>0840-0848</u>	<u>0.92</u>	<u>19.71</u>	<u>10</u>	<u>27</u>

Sample ID: SV124-050-204 Duplicate Sample ID: NA

Canister Number(s): 15C01180

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -4.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106124-150

Sample Location: KAFB-106124

Port Depth: 150

Date: 10/15/2020

Screened Interval:

Sample Team: Team 2

Top: 140.1 (ft. b.g.s)

Bottom: 150 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny 62°

Pump ID: FAI Horiba ID: FAI Sample System ID: FAI Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port?  Yes  No

Initial Static Pressure (inWC) -0.7

A. Pre-calculated purge volume (cu. ft)	2.08	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>1.24</u>	(SCFM)
C. Purge time (Sec.)	<del>1.7 min</del> <u>2.4 sec</u>	(Seconds)
1. Equals A/B*60 (round up)	<u>31.2</u>	

Post Purge Static Pressure (inWC) -0.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>0840 0846</u>	<u>0.30</u> <u>0.32 HB</u>	<u>20.20</u> <u>20.2 HB</u>	<u>0</u>	<u>2:35</u>

Sample ID: SV124-150-204 Duplicate Sample ID: NA

Canister Number(s): ISC00517

Regulator Number(s): NA

SUMMA Initial Pressure: 25.0" H<sub>2</sub>O SUMMA Final Pressure: -0.5" H<sub>2</sub>O

Comments: \_\_\_\_\_

Reviewed by: Ammanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106124-250 Sample Location: KAFB-106124

Port Depth: 250 Date: 10/5/2020

Screened Interval: Sample Team: Team 2

Top: 240.1 (ft. b.g.s)

Bottom: 250 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: \_\_\_\_\_

Pump ID: EAH Horiba ID: EAH Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -0.8

A. Pre-calculated purge volume (cu. ft)	2.387	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>LB 24</u>	(SCFM)
C. Purge time (Sec.)	<u>11.6</u>	(Seconds)
1. Equals A/B*60 (round up)	<u>35.8</u>	

Post Purge Static Pressure (inWC) -0.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>0840-0849</u>	<u>0.20</u>	<u>19.95</u>	<u>1</u>	<u>36</u>

Sample ID: SV124-250-204 Duplicate Sample ID: SV124-250-604

Canister Number(s): Primary: 15500205 Dup: 15500894

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: 25.0"Hg D: -24.5"Hg SUMMA Final Pressure: P: 1.5"Hg D: -2.5"Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106124-350

Sample Location: KAFB-106124

Port Depth: 350

Date: 10/15/2020

Screened Interval:

Sample Team: Team 2

Top: 340.1 (ft. b.g.s)

Bottom: 350 (ft. b.g.s)

Sample Team Signature: Z Ba

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny 62°

Pump ID: EA1 Horiba ID: EA2 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port: Yes -  No

Initial Static Pressure (inWC) -0.7

A. Pre-calculated purge volume (cu. ft)	2.693	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	40.4	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>0840-0852</u>	<u>0.28</u>	<u>20.37</u> <u>0.28</u>	<u>3</u>	<u>42</u>

Sample ID: SV124-350-204 Duplicate Sample ID: NA

Canister Number(s): 15500044

Regulator Number(s): NA

SUMMA Initial Pressure: -24.5" Hg SUMMA Final Pressure: -4.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106124-450 Sample Location: KAFB-106124

Port Depth: 450 Date: 10/15/2020

Screened Interval: Sample Team: Team 2

Top: 440.1 (ft. b.g.s)

Bottom: 450 (ft. b.g.s) Sample Team 2 BE

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny 62°

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -0.6

A. Pre-calculated purge volume (cu. ft)	23.709	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	5 min 56	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>0840</u>	<u>0.60</u>	<u>19.89</u>	<u>2</u>	<u>5 min 56 sec</u>

Sample ID: SV124-450-204 Duplicate Sample ID: NA

Canister Number(s): 15501026

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0" H<sub>2</sub>O SUMMA Final Pressure: -2.0" H<sub>2</sub>O

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106125-025 Sample Location: KAFB-106125

Port Depth: 025 Date: 10/5/2020

Screened Interval: Sample Team: Team 2

Top: 15.2 (ft. b.g.s)

Bottom: 25 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 65° Sunny

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.68	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	25.2	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>112</u>	<u>1.22</u>	<u>19.50</u>	<u>3</u>	<u>26</u>

Sample ID: SV125-025-204 Duplicate Sample ID: NA

Canister Number(s): 15C01105

Regulator Number(s): NA

SUMMA Initial Pressure: 29.5" Hg SUMMA Final Pressure: -1.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106125-050Sample Location: KAFB-106125Port Depth: 050Date: 10/15/2020

Screened Interval:

Top: 40.2 (ft. b.g.s)Bottom: 50 (ft. b.g.s)Sample Team: TCARD

Sample Team

Signature: 2 B30PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No - 

If yes, describe: \_\_\_\_\_

Weather observations: 65° SunnyPump ID: E1Horiba ID: A2Sample System ID: EAIManometer ID: EAIWas the sample system purged of hydrocarbons before connection with well port: Yes -  No - Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.757	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26.3	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1115</u>	<u>2.30</u>	<u>18.42</u>	<u>3</u>	<u>27</u>

Sample ID: SV125-050-204Duplicate Sample ID: NACanister Number(s): 15C00989Regulator Number(s): NASUMMA Initial Pressure: -25.0" HgSUMMA Final Pressure: -1.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Arranda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106125-150 Sample Location: KAFB-106125

Port Depth: 150 Date: 10/15/2020

Screened Interval: Sample Team: Team 2

Top: 140.2 (ft. b.g.s)

Bottom: 150 (ft. b.g.s) Sample Team 2 BSA

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 65° Sunny

Pump ID: EAI Horiba ID: EAD Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No LD

Initial Static Pressure (inWC) -0.6

A. Pre-calculated purge volume (cu. ft)	2.063	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	30.9	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1118</u>	<u>0.50</u>	<u>19.08</u>	<u>5</u>	<u>31</u>

Sample ID: SV125-150-204 Duplicate Sample ID: NA

Canister Number(s): 15500971

Regulator Number(s): ~~15500971~~ 2B NA

SUMMA Initial Pressure: -24.5 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Aracanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106125-250 Sample Location: KAFB-106125

Port Depth: 250 Date: 10/15/2020

Screened Interval: Sample Team: Team 2

Top: 240.2 (ft. b.g.s)

Bottom: 250 (ft. b.g.s) Sample Team Signature: 2 Ben

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No -  If yes, describe: \_\_\_\_\_

Weather observations: 65° Sunny

Pump ID: FAI Horiba ID: EA1 Sample System ID: EA1 Manometer ID: FAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) -0.6

A. Pre-calculated purge volume (cu. ft)	2.37	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	35.55	(Seconds)

Post Purge Static Pressure (inWC) -0.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1120</u>	<u>0.20</u>	<u>19.40</u>	<u>6</u>	<u>36</u>

Sample ID: SV125-250-204 Duplicate Sample ID: NA

Canister Number(s): 15500130

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106125-350

Sample Location: KAFB-106125

Port Depth: 350

Date: 10/15/2020

Screened Interval:

Sample Team: Team 2

Top: 340.2 (ft. b.g.s)

Bottom: 350 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.00

Signature: [Signature]

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: \_\_\_\_\_

Pump ID: EAH Horiba ID: EAH Sample System ID: EAH Manometer ID: EAH

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.6

A. Pre-calculated purge volume (cu. ft)	2.677	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	40.15	(Seconds)

Post Purge Static Pressure (inWC) -0.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1123</u>	<u>0.22</u>	<u>19.87</u>	<u>6</u>	<u>41</u>

Sample ID: SV125-350-204

Duplicate Sample ID: NA

Canister Number(s): 15C00020

Regulator Number(s): MA

SUMMA Initial Pressure: -24.5" Hg

SUMMA Final Pressure: -1.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106125-450 Sample Location: KAFB-106125

Port Depth: 450 Date: 10/15/2020

Screened Interval: Sample Team: Team 2

Top: 440.2 (ft. b.g.s)

Bottom: 450 (ft. b.g.s) Sample Team Team

PID in Wellhead: 0.00 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 65° Sunny

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) -0.6

A. Pre-calculated purge volume (cu. ft)	23.693	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	5min 55.3	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1131</u>	<u>0.58</u>	<u>19.53</u>	<u>67</u>	<u>5min</u> <u>57sec</u>

Sample ID: SV125-450-204 Duplicate Sample ID: NA

Canister Number(s): 15C00364

Regulator Number(s): NA

SUMMA Initial Pressure: -27.5 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106126-025

Sample Location: KAFB-106126

Port Depth: 025

Date: 10/20/2020

Screened Interval:

Sample Team: 1

Top: 15.1 (ft. b.g.s)

Bottom: 25 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 72°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.3<sup>SN</sup> 0.1

A. Pre-calculated purge volume (cu. ft)	1.696	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	23 <sup>SN</sup> 26	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020 1239</u>	<u>1.16</u>	<u>19.64 19.62<sup>SN</sup></u>	<u>0</u>	<u>26</u>

Sample ID: SV126-025-204 Duplicate Sample ID: NA

Canister Number(s): 15C00007

Regulator Number(s): N/A

SUMMA Initial Pressure: -23.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106126-050Sample Location: KAFB-106126Port Depth: 050Date: 10/20/2020

Screened Interval:

Top: 40.1 (ft. b.g.s)Bottom: 50 (ft. b.g.s)Sample Team: 1PID in Wellhead: 0.0Sample Team  
Signature: Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear, 72°FPump ID: 1 Horiba ID: 2 Sample System ID: 51A Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.773	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	27	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1241</u>	<u>1.26</u>	<u>19.35</u>	<u>0</u>	<u>27</u>

Sample ID: SV126-050-204 Duplicate Sample ID: NACanister Number(s): 1500030Regulator Number(s): N/ASUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106126-150 Sample Location: KAFB-106126

Port Depth: 150 Date: 10/20/2020

Screened Interval: Sample Team: 1

Top: 140.1 (ft. b.g.s)

Bottom: 150 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 72°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.6

A. Pre-calculated purge volume (cu. ft)	2.08	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	32	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1243</u>	<u>0.26</u>	<u>19.65</u>	<u>0</u>	<u>32</u>

Sample ID: SV126-150-204 Duplicate Sample ID: NA

Canister Number(s): 15600248

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106126-250

Sample Location: KAFB-106126

Port Depth: 250

Date: 10/20/2020

Screened Interval:

Top: 240.1 (ft. b.g.s)

Bottom: 250 (ft. b.g.s)

Sample Team: 1

Sample Team

Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 72°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.7

A. Pre-calculated purge volume (cu. ft)	2.387	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	36	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.7

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1246</u>	<u>0.22</u>	<u>19.73</u>	<u>0</u>	<u>36</u>

Sample ID: SV126-250-204

Duplicate Sample ID: NA

Canister Number(s): 15500986

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg

SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106126-350 Sample Location: KAFB-106126

Port Depth: 350 Date: 10/20/2020

Screened Interval: Sample Team: 1

Top: 340.1 (ft. b.g.s)

Bottom: 350 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 72°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.8

A. Pre-calculated purge volume (cu. ft)	2.693	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	41	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1248</u>	<u>0.26</u>	<u>20.24</u>	<u>4</u>	<u>41</u>

Sample ID: SV126-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C01139

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106126-450 Sample Location: KAFB-106126

Port Depth: 450 Date: 10/20/2020

Screened Interval: Sample Team: 1

Top: 440.2 (ft. b.g.s)

Bottom: 450 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 72°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) 0.8

A. Pre-calculated purge volume (cu. ft)	23.693	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 56	(Seconds)

Post Purge Static Pressure (inWC) 0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1256</u>	<u>0.56</u>	<u>20.07</u>	<u>328</u>	<u>5 min 56secs</u>

Sample ID: SV126-450-204 Duplicate Sample ID: NA

Canister Number(s): 15C00697

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106127-025 Sample Location: KAFB-106127

Port Depth: 025 Date: 10/5/2020

Screened Interval: Sample Team: Team 2

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 63° Sunny, light breeze from SE

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port? Yes -  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	26	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1019</u>	<u>0.58</u>	<u>20.43</u>	<u>1</u>	<u>26</u>

Sample ID: SV127-025-204 Duplicate Sample ID: NA

Canister Number(s): 15C00218

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106127-050Sample Location: KAFB-106127Port Depth: 050Date: 10/15/2020

Screened Interval:

Top: 40 (ft. b.g.s)Bottom: 50 (ft. b.g.s)Sample Team: Team 2PID in Wellhead: 0.0Sample Team Signature: Z. BeIs Well damaged/Flooded: Yes -  No - 

If yes, describe: \_\_\_\_\_

Weather observations: 030 SunnyPump ID: EA1 Horiba ID: EA2 Sample System ID: EA1 Manometer ID: FA1Was the sample system purged of hydrocarbons before connection with well port:  Yes -  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1024</u>	<u>0.70</u>	<u>20.11</u>	<u>2</u>	<u>27</u>

Sample ID: SV127-050-204Duplicate Sample ID: NACanister Number(s): 15500993Regulator Number(s): NASUMMA Initial Pressure: -24.5 "HgSUMMA Final Pressure: -0.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amcanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106127-150 Sample Location: KAFB-106127

Port Depth: 150 Date: 10/15/2020

Screened Interval: Sample Team: Team 2

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: Z. Beer

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: 63° Sunny

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -0.7

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	31.44	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1026</u>	<u>0.24</u>	<u>19.96</u>	<u>3</u>	<u>32</u>

Sample ID: SV127-150-204 Duplicate Sample ID: NA

Canister Number(s): 15C00576

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106127-250 Sample Location: KAFB-106127

Port Depth: 250 Date: 10/15/2020

Screened Interval: Sample Team: Team 2

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: \_\_\_\_\_

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -0.7

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	36.045	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1030</u>	<u>0.12</u>	<u>20.31</u>	<u>1</u>	<u>37</u>

Sample ID: SV127-250-204 Duplicate Sample ID: SV127-250-604

Canister Number(s): Primary: 15C00235 Dup: 15C00415

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: 25.0" Hg D: 28.0" Hg SUMMA Final Pressure: P: 2.0" Hg D: 2.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106127-350 Sample Location: KAFB-106127

Port Depth: 350 Date: 10/5/2020

Screened Interval: Sample Team: Team 2

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: \_\_\_\_\_

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: 63° Sunny

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port: Yes  No

Initial Static Pressure (inWC) -0.9

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	40.65	(Seconds)

Post Purge Static Pressure (inWC) -0.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020 1034</u>	<u>0.16</u>	<u>20.07</u>	<u>5</u>	<u>41</u>

Sample ID: SV127-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C00287

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 11/4 SUMMA Final Pressure: -1.0 11/4

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106127-450 Sample Location: KAFB-106127Port Depth: 450 Date: 10/15/2020Screened Interval: Sample Team: Team 2Top: 440 (ft. b.g.s)Bottom: 450 (ft. b.g.s) Sample Team Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_Weather observations: 6:30<sup>AM</sup> SunnyPump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAIWas the sample system purged of hydrocarbons before connection with well port: Yes  - No Initial Static Pressure (inWC) -0.9

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	5 min 56	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1043</u>	<u>0.70</u>	<u>19.72</u>	<u>2</u>	<u>5 min 56</u>

Sample ID: SV127-450-204 Duplicate Sample ID: NACanister Number(s): 15500254Regulator Number(s): NASUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Annunziata SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106128-025 Sample Location: KAFB-106128

Port Depth: 025 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 15.04 (ft. b.g.s)

Bottom: 25.04 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~85°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.1

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	26	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1341</u>	<u>2.14</u>	<u>16.98</u>	<u>1</u>	<u>26</u>

Sample ID: SV128-025-204 Duplicate Sample ID: NA

Canister Number(s): 15500851

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -3.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Ancanda Smith

Review Date: 10/7/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106128-050 Sample Location: KAFB-106128Port Depth: 050 Date: 10/6/2020Screened Interval: Sample Team: SN, ARTop: 40.07 (ft. b.g.s)Bottom: 50.07 (ft. b.g.s)PID in Wellhead: 0.0 Sample Team Signature: [Signature]Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear, ~85°FPump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) 0.2

A. Pre-calculated purge volume (cu. ft)	1.79	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1345</u>	<u>3.82</u>	<u>13.22</u>	<u>1</u>	<u>27</u>

Sample ID: SV128-050-204 Duplicate Sample ID: NACanister Number(s): 15500096Regulator Number(s): N/ASUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda SmithReview Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106128-150 Sample Location: KAFB-106128

Port Depth: 150 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 140.19 (ft. b.g.s)

Bottom: 150.19 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~85°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	2.097	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	32	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1347</u>	<u>4.86</u>	<u>8.51</u>	<u>0</u>	<u>32</u>

Sample ID: SV128-150-204 Duplicate Sample ID: NA

Canister Number(s): 15C00712

Regulator Number(s): N/A

SUMMA Initial Pressure: -29.5 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106128-250 Sample Location: KAFB-106128Port Depth: 250 Date: 10/6/2020Screened Interval: Sample Team: SN, ARTop: 240.29 (ft. b.g.s)Bottom: 250.29 (ft. b.g.s)PID in Wellhead: 0.0 Sample Team Signature: [Signature]Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_Weather observations: Sunny, Clear, ~85°FPump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) -0.2

A. Pre-calculated purge volume (cu. ft)	2.404	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1352</u>	<u>13.26</u>	<u>0.0</u>	<u>3890</u>	<u>37</u>

Sample ID: SV128-250-204 Duplicate Sample ID: NACanister Number(s): 1SC01189Regulator Number(s): N/ASUMMA Initial Pressure: -27.5 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106128-350 Sample Location: KAFB-106128

Port Depth: 350 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 340.39 (ft. b.g.s)

Bottom: 350.39 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny clear, -85°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -0.3

A. Pre-calculated purge volume (cu. ft)	2.711	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	41	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1357</u>	<u>9.12</u>	<u>3.83</u>	<u>5500</u>	<u>41</u>

Sample ID: SV128-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C00232

Regulator Number(s): N/A

SUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amarco Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106128-450 Sample Location: KAFB-106128

Port Depth: 450 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 440.06 (ft. b.g.s)

Bottom: 450.06 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -0.4

A. Pre-calculated purge volume (cu. ft)	23.728 (Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0 (SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 56 secs (Seconds)

Post Purge Static Pressure (inWC) -0.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1410</u>	<u>9.10</u>	<u>3.80</u>	<u>9270</u>	<u>5 min 56 secs</u>

Sample ID: SV128-450-204 Duplicate Sample ID: NA

Canister Number(s): 15C00862

Regulator Number(s): N/A

SUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -0.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Aranda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106129-025

Sample Location: KAFB-106129

Port Depth: 025

Date: 10/19/2020

Screened Interval:

Top: 15.1 (ft. b.g.s)

Bottom: 25.1 (ft. b.g.s)

Sample Team: Team 1

Sample Team

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Bunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) +0.1

A. Pre-calculated purge volume (cu. ft)	<u>1.713</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.)	<u>26.0</u>	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1211</u>	<u>0.20</u>	<u>20.10</u>	<u>0</u>	<u>26</u>

Sample ID: SV129-025-204 Duplicate Sample ID: NA

Canister Number(s): 15C00733

Regulator Number(s): AVG05062

SUMMA Initial Pressure: -25.0 <sup>inHg</sup> SUMMA Final Pressure: 0.0 <sup>inHg</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106129-050

Sample Location: KAFB-106129

Port Depth: 050

Date: 10/19/2020

Screened Interval:

Top: 39.7 (ft. b.g.s)

Bottom: 49.7 (ft. b.g.s)

Sample Team: Team 1

Sample Team

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny; clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.788	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	27	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1214</u>	<u>0.20</u>	<u>19.88</u>	<u>0</u>	<u>27</u>

Sample ID: SV129-050-204

Duplicate Sample ID: NA

Canister Number(s): 1SC00332

Regulator Number(s): NA

SUMMA Initial Pressure: -27.0 "Hg

SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106129-150Sample Location: KAFB-106129Port Depth: 150Date: 10/19/2020

Screened Interval:

Top: 140.2 (ft. b.g.s)Bottom: 150.2 (ft. b.g.s)Sample Team: Team 1

Sample Team

PID in Wellhead: 0.0Signature: [Signature]Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) +0.2

A. Pre-calculated purge volume (cu. ft)	2.097	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	32	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) +0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1216</u>	<u>0.22</u>	<u>19.53</u>	<u>0</u>	<u>32</u>

Sample ID: SV129-150-204 Duplicate Sample ID: NACanister Number(s): 1SC01270Regulator Number(s): NASUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106129-250

Sample Location: KAFB-106129

Port Depth: 250

Date: 10/19/2020

Screened Interval:

Top: 240.1 (ft. b.g.s)

Bottom: 250.1 (ft. b.g.s)

Sample Team: Team 1

Sample Team

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) +0.2

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	37	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) +0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>12:19</u>	<u>0.46</u>	<u>19.28</u>	<u>0</u>	<u>37</u>

Sample ID: SV129-250-204

Duplicate Sample ID: NA

Canister Number(s): 15C00612

Regulator Number(s): NA<sup>SN</sup>

SUMMA Initial Pressure: -26.0 "Hg

SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106129-350

Sample Location: KAFB-106129

Port Depth: 350

Date: 10/19/2020

Screened Interval:

Top: 337.4 (ft. b.g.s)

Sample Team: Team 1

Bottom: 347.4 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: S/A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) +0.3

A. Pre-calculated purge volume (cu. ft)	<u>2.702</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>41</u>	(Seconds)

Post Purge Static Pressure (inWC) +0.3

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1222</u>	<u>0.64</u>	<u>18.28</u>	<u>0</u>	<u>41</u>

Sample ID: SV129-350-204 Duplicate Sample ID: NA

Canister Number(s): 15500790

Regulator Number(s): NA

SUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -4.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106129-450Sample Location: KAFB-106129Port Depth: 450Date: 10/19/2020

Screened Interval:

Top: 440.7 (ft. b.g.s)Bottom: 450.7 (ft. b.g.s)Sample Team: Team 1

Sample Team

PID in Wellhead: 0.0Signature: [Signature]Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) +0.3

A. Pre-calculated purge volume (cu. ft)	23.76	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	5 min. 57 sec.	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) +0.2

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1231</u>	<u>1.82</u>	<u>15.82</u>	<u>173</u>	<u>5 min 57 sec</u>

Sample ID: SV129-450-204 Duplicate Sample ID: NACanister Number(s): 15C01089Regulator Number(s): NASUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106130-025 Sample Location: KAFB-106130Port Depth: 025 Date: 10/20/2020Screened Interval: Sample Team: 1Top: 15 (ft. b.g.s)Bottom: 25 (ft. b.g.s) Sample TeamPID in Wellhead: 0.0 Signature: [Signature]Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear, 65°FPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	26	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1149</u>	<u>0.16</u>	<u>20.24</u>	<u>3</u>	<u>26</u>

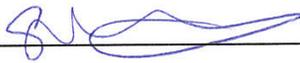
Sample ID: SV130-025-204 Duplicate Sample ID: NACanister Number(s): 18501025Regulator Number(s): N/ASUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



## Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106130-050 Sample Location: KAFB-106130Port Depth: 050 Date: 10/20/2020Screened Interval: Sample Team: 1Top: 40 (ft. b.g.s)Bottom: 50 (ft. b.g.s) Sample TeamPID in Wellhead: 0.0 Signature: Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear, 65°FPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port?  Yes -  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1152</u>	<u>0.18</u>	<u>20.06</u>	<u>0</u>	<u>27</u>

Sample ID: SV130-050-204 Duplicate Sample ID: NACanister Number(s): 15500934Regulator Number(s): N/ASUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda SmithReview Date: 11/5/2020



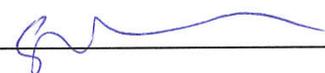
## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106130-150Sample Location: KAFB-106130Port Depth: 150Date: 10/20/2020

Screened Interval:

Top: 150 (ft. b.g.s)Sample Team: 1Bottom: 160 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0Signature: Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 65°FPump ID: 1 Horiba ID: 2 Sample System ID: 51A Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) 0.3

A. Pre-calculated purge volume (cu. ft)	2.127	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) 0.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1155</u>	<u>0.46</u>	<u>19.55</u>	<u>1</u>	<u>32</u>

Sample ID: SV130-150-204Duplicate Sample ID: NACanister Number(s): 15500879Regulator Number(s): N/ASUMMA Initial Pressure: -24.0 "HgSUMMA Final Pressure: -4.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106130-250 Sample Location: KAFB-106130Port Depth: 250 Date: 10/20/2020Screened Interval: Sample Team: 1Top: 240 (ft. b.g.s)Bottom: 250 (ft. b.g.s) Sample Team Signature: PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear, 65°FPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) 0.3

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<del>3</del> <sup>SN</sup> 4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) 0.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1159</u>	<u>0.74</u>	<u>19.30</u>	<u>0</u>	<u>37</u>

Sample ID: SV130-250-204 Duplicate Sample ID: NACanister Number(s): 15501145Regulator Number(s): N/ASUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -4.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106130-350

Sample Location: KAFB-106130

Port Depth: 350

Date: 10/20/2020

Screened Interval:

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s)

Sample Team: 1

PID in Wellhead: 0.0

Sample Team Signature:

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 65°F

Pump ID: 1 Horiba ID: 2 Sample System ID: 51A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.5

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) 0.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1201</u>	<u>0.80</u>	<u>18.31</u>	<u>1</u>	<u>44</u>

Sample ID: SV130-350-204 Duplicate Sample ID: NA

Canister Number(s): 15100304

Regulator Number(s): N/A

SUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: rusty quick SN

Reviewed by: Amanda Smith

Review Date: 11/5/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106130-450Sample Location: KAFB-106130Port Depth: 450Date: 10/20/2020

Screened Interval:

Top: 440 (ft. b.g.s)Bottom: 450 (ft. b.g.s)Sample Team: 1PID in Wellhead: 0.0

Sample Team

Signature: Is Well damaged/Flooded: Yes - No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, 65°FPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port: Yes - NoInitial Static Pressure (inWC) 0.4

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 56	(Seconds)

Post Purge Static Pressure (inWC) 0.4

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/20/2020</u> <u>1209</u>	<u>0.18</u>	<u>20.72</u>	<u>2</u>	<u>5 min 56 sec</u>

Sample ID: SV130-450-204 Duplicate Sample ID: SV130-450-604Canister Number(s): Primary: 15C00553 Dup: 15C00428Regulator Number(s): Primary: N/A Dup: N/ASUMMA Initial Pressure: P: -26.0" Hg D: -26.0" Hg SUMMA Final Pressure: P: -2.0" Hg D: -2.0" HgComments: rusty quick connect; water around base of port.Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106131-025

Sample Location: KAFB-106131

Port Depth: 025

Date: 10/19/2020

Screened Interval:

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s)

Sample Team: Team 1

Sample Team

Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) -0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1120</u>	<u>0.42</u>	<u>19.38</u>	<u>1</u>	<u>26</u>

Sample ID: SV131-025-204

Duplicate Sample ID: NA

Canister Number(s): 15500063

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.5 "Hg

SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106131-055 Sample Location: KAFB-106131Port Depth: 055 Date: 10/19/2020Screened Interval: Sample Team: Team 1Top: 45 (ft. b.g.s)Bottom: 55 (ft. b.g.s)Sample Team Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - No Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.805	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	28	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1123</u>	<u>0.28</u>	<u>19.28</u>	<u>0</u>	<u>28</u>

Sample ID: SV131-055-204 Duplicate Sample ID: NACanister Number(s): 155 00 889Regulator Number(s): NASUMMA Initial Pressure: -25.5 <sup>inHg</sup> SUMMA Final Pressure: 0.0 <sup>inHg</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106131-150Sample Location: KAFB-106131Port Depth: 150Date: 10/19/2020

Screened Interval:

Top: 140 (ft. b.g.s)Bottom: 150 (ft. b.g.s)Sample Team: Team 1

Sample Team

Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes - No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port: Yes - NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1126</u>	<u>0.38</u>	<u>18.90</u>	<u>0</u>	<u>32</u>

Sample ID: SV131-150-204Duplicate Sample ID: NACanister Number(s): ISC 01146Regulator Number(s): NASUMMA Initial Pressure: -23.0 <sup>inHg</sup>SUMMA Final Pressure: -1.0 <sup>inHg</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106131-245 Sample Location: KAFB-106131

Port Depth: 245 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 235 (ft. b.g.s)

Bottom: 245 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	2.388	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	36	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1129</u>	<u>0.46</u>	<u>18.55</u>	<u>0</u>	<u>36</u>

Sample ID: SV131-245-204 Duplicate Sample ID: NA

Canister Number(s): 15C00305 AR 15S00495

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 <sup>inHg</sup> SUMMA Final Pressure: -5.0 <sup>inHg</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106131-350 Sample Location: KAFB-106131

Port Depth: 350 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: S/A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) +0.1

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	41	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1132</u>	<u>0.38</u>	<u>15.62</u>	<u>2</u>	<u>41</u>

Sample ID: SV131-350-204 Duplicate Sample ID: NA

Canister Number(s): 15500501

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020

Quarter: 4

Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106131-450Sample Location: KAFB-106131Port Depth: 450Date: 10/19/2020

Screened Interval:

Top: 430 (ft. b.g.s)Bottom: 440 (ft. b.g.s)Sample Team: Team 1

Sample Team

Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: S14 Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) +0.1

A. Pre-calculated purge volume (cu. ft)	23.234	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	5min 49sec	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) +0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1141</u>	<u>0.94</u>	<u>14.29</u>	<u>269</u>	<u>5min. 49sec.</u>

Sample ID: SV131-450-204 Duplicate Sample ID: NACanister Number(s): 15C00495Regulator Number(s): NASUMMA Initial Pressure: -27.0 <sup>inHg</sup> SUMMA Final Pressure: -1.5 <sup>inHg</sup>

Comments: \_\_\_\_\_

Reviewed by: Annanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106132-025Sample Location: KAFB-106132Port Depth: 025Date: 10/12/2020

Screened Interval:

Top: 15 (ft. b.g.s)Sample Team: Team 2Bottom: 25 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0Signature: [Signature]Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 68° SunnyPump ID: EA' Horiba ID: FH' Sample System ID: EA' Manometer ID: EA'Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) 68° Sunny ~~0.6~~ 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020 1214</u>	<u>3.06</u>	<u>17.37</u>	<u>3</u>	<u>26</u>

Sample ID: SV132-025-204Duplicate Sample ID: NACanister Number(s): 15500183Regulator Number(s): NASUMMA Initial Pressure: -26.0" HgSUMMA Final Pressure: -2.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106132-050 Sample Location: KAFB-106132

Port Depth: 050 Date: 10/12/2020

Screened Interval: Sample Team: Team 2

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s) Sample Team

PID in Wellhead: \_\_\_\_\_ Signature: A Be

Is Well damaged/Flooded: Yes -  No \_\_\_\_\_ If yes, describe: \_\_\_\_\_

Weather observations: 68° Sunny

Pump ID: EA Horiba ID: EA Sample System ID: EA Manometer ID: EA

Was the sample system purged of hydrocarbons before connection with well port?  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	27	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020 1218</u>	<u>2.36</u>	<u>17.80</u>	<u>4</u>	<u>27</u>

Sample ID: SV132-050-204 Duplicate Sample ID: NA

Canister Number(s): 15500136

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -4.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106132-175 Sample Location: KAFB-106132

Port Depth: 175 Date: 10/12/2020

Screened Interval: Sample Team: Team 2

Top: 164 (ft. b.g.s)

Bottom: 174 (ft. b.g.s) Sample Team Signature: J Bu

PID in Wellhead: 1.0

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: 68° Sunny

Pump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA'

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) -1.2

A. Pre-calculated purge volume (cu. ft)	2.17	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	33	(Seconds)

Post Purge Static Pressure (inWC) -1.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020 1221</u>	<u>0.74</u>	<u>18.91</u>	<u>3</u>	<u>33</u>

Sample ID: SV132-175-204 Duplicate Sample ID: NA

Canister Number(s): 15500546

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106132-250 Sample Location: KAFB-106132

Port Depth: 250 Date: 10/12/2020

Screened Interval: Sample Team: Team 2

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 68° Sunny

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.2

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	36	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1223</u>	<u>0.40</u>	<u>19.55</u>	<u>4</u>	<u>36</u>

Sample ID: SV132-250-204 Duplicate Sample ID: NA

Canister Number(s): 19900543

Regulator Number(s): NA

SUMMA Initial Pressure: -25.7 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106132-350 Sample Location: KAFB-106132

Port Depth: 350 Date: 10/12/2020

Screened Interval: Sample Team: Troun

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 68° Sunny

Pump ID: FA Horiba ID: EA Sample System ID: EA Manometer ID: EA

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.1

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	41	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1227</u>	<u>0.64</u>	<u>19.67</u>	<u>5</u>	<u>41</u>

Sample ID: SV132-350-204 Duplicate Sample ID: NA

Canister Number(s): 15500593

Regulator Number(s): NA

SUMMA Initial Pressure: -29.0 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106132-450

Sample Location: KAFB-106132

Port Depth: 450

Date: 10/12/2020

Screened Interval:

Sample Team: Team 2

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s)

Sample Team TR

PID in Wellhead: 00

Signature: [Signature]

Is Well damaged/Flooded: Yes  No

If yes, describe: \_\_\_\_\_

Weather observations: 68° sunny

Pump ID: EA Horiba ID: EA Sample System ID: EA Manometer ID: EA

Was the sample system purged of hydrocarbons before connection with well port: Yes  No

Initial Static Pressure (inWC) -1.4

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 56	(Seconds)

Post Purge Static Pressure (inWC) -1.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020 1235</u>	<u>0.88</u>	<u>19.63</u>	<u>3</u>	<u>5 min 56</u>

Sample ID: SV132-450-204 Duplicate Sample ID: NA

Canister Number(s): 15C01037

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 49 SUMMA Final Pressure: -1.5 49

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106133-025Sample Location: KAFB-106133Port Depth: 025Date: 10/6/2020

Screened Interval:

Sample Team: Team 2Top: 15 (ft. b.g.s)Bottom: 25 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0Signature: ZBMIs Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 66° Sunny, light hazePump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EALWas the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	25.6	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1045</u>	<u>2.70</u>	<u>17.67</u>	<u>2</u>	<u>26</u>

Sample ID: SV133-025-204Duplicate Sample ID: NACanister Number(s): ISC00133Regulator Number(s): NASUMMA Initial Pressure: -25.0 "HgSUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106133-050

Sample Location: KAFB-106133

Port Depth: 050

Date: 10/6/2020

Screened Interval:

Sample Team: Team 2

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: \_\_\_\_\_

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 66° Sunny, light haze

Pump ID: EA1 Horiba ID: EA2 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port?  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26.8	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1049</u>	<u>1.12</u>	<u>19.34</u>	<u>0</u>	<u>28</u>

Sample ID: SV133-050-204 Duplicate Sample ID: NA

Canister Number(s): 15C00608

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106133-170 Sample Location: KAFB-106133

Port Depth: 170 Date: 10/6/2020

Screened Interval: Sample Team: Team 2

Top: 160 (ft. b.g.s)

Bottom: 170 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: 66° Sunny, light haze

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -1.2

A. Pre-calculated purge volume (cu. ft)	2.158	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32.3	(Seconds)

Post Purge Static Pressure (inWC) -1.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1052</u>	<u>0.54</u>	<u>19.18</u>	<u>2</u>	<u>33</u>

Sample ID: SV133-170-204 Duplicate Sample ID: NA

Canister Number(s): 1SC00417

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106133-250 Sample Location: KAFB-106133

Port Depth: 250 Date: 10/6/2020

Screened Interval: Sample Team: Team 2

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: 66° Sunny, light haze

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -1.2

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	36	(Seconds)

Post Purge Static Pressure (inWC) -1.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1055</u>	<u>0.62</u>	<u>19.25</u>	<u>3</u>	<u>36</u>

Sample ID: SV133-250-204 Duplicate Sample ID: SV133-250-604

Canister Number(s): Primary: 15500491 Dup: 15C01266

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: -25.0<sup>11H6</sup> D: -25.0<sup>11H6</sup> SUMMA Final Pressure: P: -1.5<sup>11H6</sup> D: -2.0<sup>11H6</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106133-350 Sample Location: KAFB-106133

Port Depth: 350 Date: 10/6/2020

Screened Interval: Sample Team: Team 2

Top: 339 (ft. b.g.s)

Bottom: 349 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: 60° Sunny, light haze

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.2

A. Pre-calculated purge volume (cu. ft)	2.707	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	40.6	(Seconds)

Post Purge Static Pressure (inWC) -1.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1059</u>	<u>0.74</u>	<u>19.36</u>	<u>4.0</u>	<u>41</u>

Sample ID: SV133-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C00781

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amber Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106133-450 Sample Location: KAFB-106133Port Depth: 450 Date: 10/6/2020Screened Interval: Sample Team: Team 2Top: 439 (ft. b.g.s)Bottom: 449 (ft. b.g.s) Sample Team Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: 66° Sunny, light hazePump ID: EAI Horiba ID: EAD Sample System ID: EAI Manometer ID: EAIWas the sample system purged of hydrocarbons before connection with well port:  Yes - No Initial Static Pressure (inWC) -1.3

A. Pre-calculated purge volume (cu. ft)	23.676	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 55	(Seconds)

Post Purge Static Pressure (inWC) -1.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1108</u>	<u>1.3</u>	<u>18.42</u>	<u>44</u>	<u>5 min</u> <u>56</u>

Sample ID: SV133-450-204 Duplicate Sample ID: NACanister Number(s): 15500230Regulator Number(s): NASUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106134-025 Sample Location: KAFB-106134

Port Depth: 025 Date: 10/12/2020

Screened Interval: Sample Team: Team 2

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 72° , SUNNY

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port: Yes -  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1312</u>	<u>0.28</u>	<u>20.08</u>	<u>1</u>	<u>26</u>

Sample ID: SV134-025-204 Duplicate Sample ID: NA

Canister Number(s): 15500932

Regulator Number(s): NA

SUMMA Initial Pressure: -20.5 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106134-050 Sample Location: KAFB-106134Port Depth: 050 Date: 10/12/2020Screened Interval: Sample Team: Team 7Top: 40 (ft. b.g.s)Bottom: 50 (ft. b.g.s)PID in Wellhead: 0.0 Sample Team Signature: [Signature]Is Well damaged/Flooded:  Yes  No LS If yes, describe: Rusty connectWeather observations: 73° SunnyPump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA'Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	<u>427</u>	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1315</u>	<u>0.18</u>	<u>20.19</u>	<u>0</u>	<u>27</u>

Sample ID: SV134-050-204 Duplicate Sample ID: NACanister Number(s): 15C00915Regulator Number(s): ~~24.0~~ NA LSSUMMA Initial Pressure: -24.0 149 SUMMA Final Pressure: -1.0 HS

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106134-170 Sample Location: KAFB-106134

Port Depth: 170 Date: 10/12/2020

Screened Interval: Sample Team: Team H

Top: 160 (ft. b.g.s)

Bottom: 170 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: \_\_\_\_\_

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: 73° Sunny

Pump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA'

Was the sample system purged of hydrocarbons before connection with well port?  Yes - No

Initial Static Pressure (inWC) -1.3

A. Pre-calculated purge volume (cu. ft)	2.158	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	33	(Seconds)

Post Purge Static Pressure (inWC) -1.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1318</u>	<u>0.22</u>	<u>19.92</u>	<u>0</u>	<u>33</u>

Sample ID: SV134-170-204 Duplicate Sample ID: NA

Canister Number(s): 15500525

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -1.5 "Hg.

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106134-250 Sample Location: KAFB-106134

Port Depth: 250 Date: 10/12/2020

Screened Interval: Sample Team: Team 2

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: 73° Sunny

Pump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA'

Was the sample system purged of hydrocarbons before connection with well port?  Yes - No

Initial Static Pressure (inWC) -0.9

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	36	(Seconds)

Post Purge Static Pressure (inWC) -0.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1321</u>	<u>0.32</u>	<u>19.72</u>	<u>0</u>	<u>36</u>

Sample ID: SV134-250-204 Duplicate Sample ID: NA

Canister Number(s): 13500854

Regulator Number(s): NA

SUMMA Initial Pressure: 29.5 <sup>15</sup> 149 SUMMA Final Pressure: 5.0 <sup>15</sup> 145

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106134-350 Sample Location: KAFB-106134

Port Depth: 350 Date: 10/12/2020

Screened Interval: Sample Team: Team 2

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: \_\_\_\_\_

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: 73° Sunny

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.9

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) -0.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1325</u>	<u>0.42</u>	<u>19.66</u>	<u>0</u>	<u>41</u>

Sample ID: SV134-350-204 Duplicate Sample ID: SV134-350-604

Canister Number(s): Primary: 15500121 Dup: 15C00036

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: -24.5 <sup>11/15</sup> D: -24.5 <sup>11/15</sup> SUMMA Final Pressure: P: 0.0 <sup>11/15</sup> D: -1.0 <sup>11/15</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106134-450Sample Location: KAFB-106134Port Depth: 450Date: 10/11/2020

Screened Interval:

Top: 440 (ft. b.g.s)Bottom: 450 (ft. b.g.s)Sample Team: Team 2PID in Wellhead: 0.0

Sample Team

Signature: [Signature]Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 73° SunnyPump ID: EA Horiba ID: EA Sample System ID: EA Manometer ID: EAWas the sample system purged of hydrocarbons before connection with well port: Yes  NoInitial Static Pressure (inWC) -1.1

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	5 min 56	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.0

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1334</u>	<u>0.58</u> <u>0.04</u> <sup>AS</sup>	<u>19.77</u> <u>20.83</u> <sup>AS</sup>	<u>21</u>	<u>5 min</u> <u>56 sec</u>

Sample ID: SV134-450-204Duplicate Sample ID: NACanister Number(s): 15C00776Regulator Number(s): NASUMMA Initial Pressure: -24.0 "HgSUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amber SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106135-025 Sample Location: KAFB-106135

Port Depth: 025 Date: 10/12/2020

Screened Interval: Sample Team: Team d

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 63° sunny

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	26	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1046</u>	<u>0.40</u>	<u>20.13</u>	<u>2</u>	<u>20</u>

Sample ID: SV135-025-204 Duplicate Sample ID: NA

Canister Number(s): 15500055

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg "Hg SUMMA Final Pressure: 0.0 "Hg "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106135-050Sample Location: KAFB-106135Port Depth: 050Date: 10/12/2020

Screened Interval:

Top: 40 (ft. b.g.s)Bottom: 50 (ft. b.g.s)Sample Team: Team 8

Sample Team

PID in Wellhead: 0.0Signature: Z BaIs Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 63° sunnyPump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA'Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1050</u>	<u>0.34</u>	<u>20.17</u>	<u>4</u>	<u>27</u>

Sample ID: SV135-050-204Duplicate Sample ID: NACanister Number(s): 15500841Regulator Number(s): NASUMMA Initial Pressure: -25.0 "HgSUMMA Final Pressure: -4.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106135-150 Sample Location: KAFB-106135

Port Depth: 150 Date: 10/12/2020

Screened Interval: Sample Team: Team 2

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: \_\_\_\_\_

Pump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA

Was the sample system purged of hydrocarbons before connection with well port?  Yes - No

Initial Static Pressure (inWC) -1.2

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) -1.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1053</u>	<u>0.18</u>	<u>19.85</u>	<u>5</u>	<u>32</u>

Sample ID: SV135-150-204 Duplicate Sample ID: NA

Canister Number(s): 15C00723

Regulator Number(s): NA

SUMMA Initial Pressure: -24.5 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106135-250 Sample Location: KAFB-106135

Port Depth: 250 Date: 10/12/2020

Screened Interval: Sample Team: TR 2

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: \_\_\_\_\_

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: 63° Sunny

Pump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA'

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -1.9

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) -1.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1056</u>	<u>0.22</u>	<u>19.98</u>	<u>4</u>	<u>37</u>

Sample ID: SV135-250-204 Duplicate Sample ID: SV135-250-604

Canister Number(s): Primary: 15500999 Dup: 15500128

Regulator Number(s): Primary: NR Dup: NR

SUMMA Initial Pressure: P: -25.4<sup>4/5</sup> D: -23.0<sup>4/5</sup> SUMMA Final Pressure: P: 20.4<sup>4/5</sup> D: 2.0<sup>4/5</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106135-350 Sample Location: KAFB-106135

Port Depth: 350 Date: 10/12/2020

Screened Interval: Sample Team: Trou 2

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s) Sample Team: BA

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: \_\_\_\_\_

Pump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA'

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -1.7

A. Pre-calculated purge volume (cu. ft)	<u>2.71</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>41</u>	(Seconds)

Post Purge Static Pressure (inWC) -1.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1101</u>	<u>0.30</u>	<u>20.14</u>	<u>4</u>	<u>41</u>

Sample ID: SV135-350-204 Duplicate Sample ID: NA

Canister Number(s): 15300779

Regulator Number(s): NA

SUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -0.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106135-450

Sample Location: KAFB-106135

Port Depth: 450

Date: ~~10/26/20~~ <sup>LA</sup> 10/12/2020

Screened Interval:

Sample Team: Team 2

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 63° Sunny

Pump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA'

Was the sample system purged of hydrocarbons before connection with well port?  Yes - No

Initial Static Pressure (inWC) -1.8

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 56	(Seconds)

Post Purge Static Pressure (inWC) -1.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1109</u>	<u>0.28</u>	<u>20.05</u>	<u>3</u>	<u>5 min 56</u>

Sample ID: SV135-450-204 Duplicate Sample ID: NA

Canister Number(s): 15C00173

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 <sup>1119</sup> SUMMA Final Pressure: -0.5 <sup>1119</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106136-025 Sample Location: KAFB-106136

Port Depth: 025 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: BFF Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	26	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1102</u>	<u>0.32</u>	<u>20.01</u>	<u>1</u>	<u>26</u>

Sample ID: SV136-025-204 Duplicate Sample ID: NA

Canister Number(s): 15C00870

Regulator Number(s): N/A

SUMMA Initial Pressure: -24.5 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106136-050 Sample Location: KAFB-106136

Port Depth: 050 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s)

PID in Wellhead: 0.0 Signature:

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: OFF Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.1

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1105</u>	<u>0.28</u>	<u>19.92</u>	<u>2</u>	<u>27</u>

Sample ID: SV136-050-204 Duplicate Sample ID: NA

Canister Number(s): ~~15C00088~~<sup>SN</sup> 15C00440

Regulator Number(s): N/A

SUMMA Initial Pressure: -23.5 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106136-150 Sample Location: KAFB-106136

Port Depth: 150 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: OFF Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -0.9

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) -0.5 SN -1.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1109</u>	<u>0.12</u>	<u>19.86</u>	<u>1</u>	<u>32</u>

Sample ID: SV136-150-204 Duplicate Sample ID: NA

Canister Number(s): 15500716

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -4.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106136-250

Sample Location: KAFB-106136

Port Depth: 250

Date: 10/6/2020

Screened Interval:

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s)

Sample Team: SN, AR

Sample Team

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: off Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.2

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) -1.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1112</u>	<u>0.14</u>	<u>20.17</u>	<u>1</u>	<u>37</u>

Sample ID: SV136-250-204

Duplicate Sample ID: NA

Canister Number(s): 15500941

Regulator Number(s): AV603924SN AV603294

SUMMA Initial Pressure: -27.0 "Hg

SUMMA Final Pressure: -2.0 "Hg<sup>SN</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106136-350 Sample Location: KAFB-106136Port Depth: 350 Date: 10/6/2020Screened Interval: Sample Team: SN, ARTop: 340 (ft. b.g.s)Bottom: 350 (ft. b.g.s) Sample TeamPID in Wellhead: 0.0 Signature: Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_Weather observations: Sunny, good SW clear, ~75°FPump ID: 1 Horiba ID: 2 Sample System ID: off Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes  No <sup>SN</sup>Initial Static Pressure (inWC) -1.3

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) -1.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1116</u>	<u>0.16</u>	<u>20.02</u>	<u>1</u>	<u>41</u>

Sample ID: SV136-350-204 Duplicate Sample ID: NACanister Number(s): 15C01369Regulator Number(s): AUG04740SUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106136-450 Sample Location: KAFB-106136

Port Depth: 450 Date: 10/6/2020

Screened Interval: Sample Team: SW, AR

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: OFF Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.3

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 56	(Seconds)

Post Purge Static Pressure (inWC) -1.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>1125</u>	<u>0.16</u>	<u>20.16</u>	<u>0</u>	<u>5 min 56 sec</u>

Sample ID: SV136-450-204 Duplicate Sample ID: NA

Canister Number(s): 15500058

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106137-025Sample Location: KAFB-106137Port Depth: 025Date: 10/12/2020

Screened Interval:

Top: 15 (ft. b.g.s)Bottom: 25 (ft. b.g.s)Sample Team: Team 2PID in Wellhead: 0.0Sample Team  
Signature: Ze RIs Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: 60° SunnyPump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0945</u>	<u>0.32</u>	<u>20.50</u>	<u>4</u>	<u>26</u>

Sample ID: SV137-025-204 Duplicate Sample ID: NACanister Number(s): 15500093Regulator Number(s): NASUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda SmithReview Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106137-050Sample Location: KAFB-106137Port Depth: 050Date: 10/12/2020

Screened Interval:

Top: 40 (ft. b.g.s)Bottom: 50 (ft. b.g.s)Sample Team: TEAM 2PID in Wellhead: 0.0Sample Team Signature: [Signature]Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: 60° SunnyPump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020 0948</u>	<u>0.38</u>	<u>20.45</u>	<u>3</u>	<u>27</u>

Sample ID: SV137-050-204 Duplicate Sample ID: NACanister Number(s): 15500091Regulator Number(s): NASUMMA Initial Pressure: -24.5 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



## Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106137-150 Sample Location: KAFB-106137Port Depth: 150 Date: 10/12/2020Screened Interval: Sample Team: Team 2Top: 140 (ft. b.g.s)Bottom: 150 (ft. b.g.s) Sample Team Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: 60° SunnyPump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA'Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) -1.7

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) -1.7

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0952</u>	<u>0.26</u>	<u>20.11</u>	<u>2</u>	<u>32</u>

Sample ID: SV137-150-204 Duplicate Sample ID: NACanister Number(s): 15C01025Regulator Number(s): NASUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -0.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106137-250 Sample Location: KAFB-106137Port Depth: 250 Date: 10/12/2020Screened Interval: Sample Team: Team 4Top: 240.1 (ft. b.g.s)Bottom: 250.1 (ft. b.g.s) Sample Team Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: 60° SunnyPump ID: EA1 Horiba ID: EA Sample System ID: EA1 Manometer ID: EA1Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) -1.8

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) -1.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0956</u>	<u>0.30</u>	<u>20.11</u>	<u>3</u>	<u>38</u>

Sample ID: SV137-250-204 Duplicate Sample ID: NACanister Number(s): 15500767Regulator Number(s): N/ASUMMA Initial Pressure: -23.0 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amber SmithReview Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106137-350 Sample Location: KAFB-106137Port Depth: 350 Date: 10/12/2020Screened Interval: Sample Team: Team 2Top: 340.5 (ft. b.g.s)Bottom: 350.5 (ft. b.g.s) Sample Team Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_Weather observations: 60° SunnyPump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1Was the sample system purged of hydrocarbons before connection with well port?  Yes - NoInitial Static Pressure (inWC) -2.0

A. Pre-calculated purge volume (cu. ft)	2.711	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) -2.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1000</u>	<u>0.36</u>	<u>20.25</u>	<u>3</u>	<u>41</u>

Sample ID: SV137-350-204 Duplicate Sample ID: NACanister Number(s): 15000649Regulator Number(s): NASUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106137-450

Sample Location: KAFB-106137

Port Depth: 450

Date: 10/12/2020

Screened Interval:

Sample Team: Team 2

Top: 440 (ft. b.g.s)

Sample Team Signature: [Signature]

Bottom: 450 (ft. b.g.s)

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 60° Sunny

Pump ID: EA' Horiba ID: EA' Sample System ID: EA' Manometer ID: EA'

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -2.0

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 56	(Seconds)

Post Purge Static Pressure (inWC) ~~LE~~ -2.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1008</u>	<u>1.66</u>	<u>18.35</u>	<u>802</u>	<u>5 min 56</u>

Sample ID: SV137-450-204 Duplicate Sample ID: NA

Canister Number(s): 15500083

Regulator Number(s): NA

SUMMA Initial Pressure: -23.0 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106138-025 Sample Location: KAFB-106138

Port Depth: 025 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~70°F

Pump ID: 1 Horiba ID: 2 Sample System ID: off Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26	(Seconds)

Post Purge Static Pressure (inWC) -0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0924</u>	<u>3.56</u>	<u>17.66</u>	<u>1</u>	<u>40</u>

Sample ID: SV138-025-204 Duplicate Sample ID: NA

Canister Number(s): 15500991

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: over purged by 14 secs

Reviewed by: Arcanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106138-050 Sample Location: KAFB-106138

Port Depth: 050 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~70°F

Pump ID: 1 Horiba ID: 2 Sample System ID: OFF Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.1

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0928</u>	<u>3.48</u>	<u>17.49</u>	<u>0</u>	<u>27</u>

Sample ID: SV138-050-204 Duplicate Sample ID: NA

Canister Number(s): 15C01057

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106138-150 Sample Location: KAFB-106138

Port Depth: 150 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded:  Yes  No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~70°F

Pump ID: 1 Horiba ID: 2 Sample System ID: off Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) -0.9

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) -0.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0931</u>	<u>0.28</u>	<u>19.17</u>	<u>0</u>	<u>32</u>

Sample ID: SV138-150-204 Duplicate Sample ID: SV138-150-604

Canister Number(s): Primary: 15500695 Dup: 15001159

Regulator Number(s): Primary: NA Dup: N/A

SUMMA Initial Pressure: P: -26.0"Hg D: -26.0"Hg SUMMA Final Pressure: P: -1.5"Hg D: -2.0"Hg

Comments: \_\_\_\_\_

Reviewed by: Aracanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106138-250 Sample Location: KAFB-106138

Port Depth: 250 Date: 10/6/2020<sup>13</sup>

Screened Interval: Sample Team: SU, AR

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~70°F

Pump ID: 1 Horiba ID: 2 Sample System ID: OFF Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.0

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	37	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0936</u>	<u>0.02</u>	<u>20.95</u>	<u>2</u>	<u>42</u>

Sample ID: SV138-250-204 Duplicate Sample ID: NA

Canister Number(s): 15C00857

Regulator Number(s): N/A

SUMMA Initial Pressure: -24.5 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: over-purged by 5 seconds

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106138-350 Sample Location: KAFB-106138

Port Depth: 350 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~70°F

Pump ID: 1 Horiba ID: 2 Sample System ID: OFF Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -1.0

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	41	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -1.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0940</u>	<u>0.26</u>	<u>20.28</u>	<u>1</u>	<u>42</u>

Sample ID: SV138-350-204 Duplicate Sample ID: NA

Canister Number(s): 15500194

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106138-450 Sample Location: KAFB-106138

Port Depth: 450 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear -70°F

Pump ID: 1 Horiba ID: 2 Sample System ID: off Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) ~~0.0~~ SN -1.0

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 56	(Seconds)

Post Purge Static Pressure (inWC) -1.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0954</u>	<u>3.40</u>	<u>18.20</u>	<u>3</u>	<u>5 min 56</u>

Sample ID: SV138-450-204 Duplicate Sample ID: NA

Canister Number(s): 15500544

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106139-025 Sample Location: KAFB-106139

Port Depth: 025 Date: 10/12/2020

Screened Interval: Sample Team: Team 2

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s) Sample Team 2

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: 60° Sunny

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port: Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	<u>1.713</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>26</u>	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0841</u>	<u>0.02</u>	<u>20.66</u>	<u>6</u>	<u>26</u>

Sample ID: SV139-025-204 Duplicate Sample ID: NA

Canister Number(s): 15C00337

Regulator Number(s): NA

SUMMA Initial Pressure: -15.0 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106139-050 Sample Location: KAFB-106139

Port Depth: 050 Date: 10/12/2020

Screened Interval: Sample Team: Team h

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: \_\_\_\_\_

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port: Yes No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0846</u>	<u>0.76</u>	<u>20.33</u>	<u>4</u>	<u>27</u>

Sample ID: SV139-050-204 Duplicate Sample ID: SV139-050-604

Canister Number(s): Primary: 15C00703 ~~446~~ Dup: 15C00477 ~~44~~ <sup>AS</sup>

Regulator Number(s): Primary: NA Dup: ~~NA~~ <sup>AS</sup>

SUMMA Initial Pressure: P: -26.5 <sup>11/19</sup> D: -25.0 <sup>11/19</sup> SUMMA Final Pressure: P: 6.0 <sup>11/19</sup> D: -2.0 <sup>11/19</sup>

Comments: \_\_\_\_\_

Reviewed by: [Signature]

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106139-150 Sample Location: KAFB-106139

Port Depth: 150 Date: 10/12/2020

Screened Interval: Sample Team: Team 2

Top: 140 (ft. b.g.s)

Bottom: 150 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: 60° Sunny

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: EAI

Was the sample system purged of hydrocarbons before connection with well port? Yes  No

Initial Static Pressure (inWC) -1.6

A. Pre-calculated purge volume (cu. ft)	2.096	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) -1.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0852</u>	<u>0.68</u>	<u>19.11</u>	<u>8</u>	<u>32</u>

Sample ID: SV139-150-204 Duplicate Sample ID: NA

Canister Number(s): 15C00950

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 <sup>inHg</sup> SUMMA Final Pressure: -5.0 <sup>inHg</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106139-250 Sample Location: KAFB-106139

Port Depth: 250 Date: 10/12/2020

Screened Interval: Sample Team: Team 2

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 60° Sunny

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port: Yes  No

Initial Static Pressure (inWC) -1.7

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	36	(Seconds)

Post Purge Static Pressure (inWC) -1.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>0857</u>	<u>0.60</u>	<u>18.92</u>	<u>39</u>	<u>36</u>

Sample ID: SV139-250-204 Duplicate Sample ID: NA

Canister Number(s): 15500743

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -4.0 "Hg

Comments: -Gauge Got Stuck

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106139-350

Sample Location: KAFB-106139

Port Depth: 350

Date: 10/12/2020

Screened Interval:

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s)

Sample Team: Team 2

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No

If yes, describe: \_\_\_\_\_

Weather observations: \_\_\_\_\_

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -1.6

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	41	(Seconds)

Post Purge Static Pressure (inWC) -1.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020 0904</u>	<u>0.42</u>	<u>19.51</u>	<u>0</u>	<u>41</u>

Sample ID: SV139-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C00767

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 149 SUMMA Final Pressure: -3.0 1149

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106139-450 Sample Location: KAFB-106139

Port Depth: 450 Date: 10/12/2020

Screened Interval: Sample Team: Team 4

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: 60° Sunny

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port: Yes -  No

Initial Static Pressure (inWC) -1.4

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5 min 56	(Seconds)

Post Purge Static Pressure (inWC) -1.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>09:13</u>	<u>0.48</u>	<u>20.13</u>	<u>4</u>	<u>5 min</u> <u>56</u>

Sample ID: SV139-450-204 Duplicate Sample ID: NA

Canister Number(s): 15C01383

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 1149 SUMMA Final Pressure: -0.5 1149

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106140-025 Sample Location: KAFB-106140

Port Depth: 025 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 15 (ft. b.g.s)

Bottom: 25 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	26	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1236</u>	<u>0.26</u>	<u>20.69</u>	<u>0</u>	<u>26</u>

Sample ID: SV140-025-204 Duplicate Sample ID: NA

Canister Number(s): 15500994 SN 15500772

Regulator Number(s): N/A

SUMMA Initial Pressure: -27.0 <sup>SN</sup> "Hg SUMMA Final Pressure: -2.0 <sup>SN</sup> "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106140-050 Sample Location: KAFB-106140

Port Depth: 050 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s) Sample Team Signature:

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1239</u>	<u>0.20</u>	<u>20.59</u>	<u>0</u>	<u>27</u>

Sample ID: SV140-050-204 Duplicate Sample ID: NA

Canister Number(s): 01023  
15C00550-SW

Regulator Number(s): N/A

SUMMA Initial Pressure: 22.5 "Hg  
~~26.0~~ SUMMA Final Pressure: -1.5 "Hg  
~~3.0~~

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106140-150 Sample Location: KAFB-106140

Port Depth: 150 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 141.8 (ft. b.g.s)

Bottom: 151.8 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.4

A. Pre-calculated purge volume (cu. ft)	2.102	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32	(Seconds)

Post Purge Static Pressure (inWC) -1.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1243</u>	<u>0.18</u>	<u>20.05</u>	<u>0</u>	<u>32</u>

Sample ID: SV140-150-204 Duplicate Sample ID: NA

Canister Number(s): 15C00780

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amranda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106140-250 Sample Location: KAFB-106140

Port Depth: 250 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.5

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) -1.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1246</u>	<u>0.22</u>	<u>19.90</u>	<u>0</u>	<u>37</u>

Sample ID: SV140-250-204 Duplicate Sample ID: NA

Canister Number(s): 15500956

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

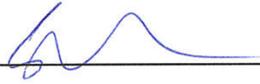
SVMP ID: KAFB-106140-350 Sample Location: KAFB-106140

Port Depth: 350 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s)

Sample Team Signature: 

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.5

A. Pre-calculated purge volume (cu. ft)	<u>2.71</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>4.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>41</u>	(Seconds)

Post Purge Static Pressure (inWC) -1.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1250</u>	<u>0.24</u>	<u>19.84</u>	<u>0</u>	<u>41</u>

Sample ID: SV140-350-204 Duplicate Sample ID: NA

Canister Number(s): 15500970

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amranda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106140-450 Sample Location: KAFB-106140

Port Depth: 450 Date: 10/12/2020

Screened Interval: Sample Team: 1

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.5

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	6 <sup>50</sup> 5min 56	(Seconds)

Post Purge Static Pressure (inWC) -1.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/12/2020</u> <u>1259</u>	<u>0.18</u>	<u>19.69</u>	<u>0</u>	<u>5min 56secs</u>

Sample ID: SV140-450-204 Duplicate Sample ID: SV140-450-604

Canister Number(s): Primary: 15500820 Dup: 15C01342

Regulator Number(s): Primary: N/A Dup: N/A

SUMMA Initial Pressure: P: -27.0"Hg D: -26.0"Hg SUMMA Final Pressure: P: -1.5"Hg D: -2.5"Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106141-025

Sample Location: KAFB-106141

Port Depth: 025

Date: 10/6/2020

Screened Interval:

Top: 15 (ft. b.g.s)

Sample Team: SN, AR

Bottom: 25 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~65°F

Pump ID: 1 Horiba ID: 2 Sample System ID: OFF Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.2

A. Pre-calculated purge volume (cu. ft)	1.713	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	26	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0822</u>	<u>1.10</u> <del>0.00</del> SN	<u>19.43</u>	<u>19.4</u> SN	<u>26</u>

Sample ID: SV141-025-204 Duplicate Sample ID: NA

Canister Number(s): 15500165

Regulator Number(s): N/A

SUMMA Initial Pressure: -28.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106141-050Sample Location: KAFB-106141Port Depth: 050Date: 10/6/2020

Screened Interval:

Top: 50 (ft. b.g.s)Sample Team: SN, ARBottom: 60 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0Signature: [Signature]Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear ~65°FPump ID: 1 Horiba ID: 2 Sample System ID: off Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) -0.2

A. Pre-calculated purge volume (cu. ft)	1.82	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	28	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0828</u>	<u>0.32</u>	<u>19.8<sup>5</sup></u>	<u>1</u>	<u>28</u>

Sample ID: SV141-050-204Duplicate Sample ID: NACanister Number(s): 15C00319Regulator Number(s): NASUMMA Initial Pressure: -26.0 "HgSUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106141-170

Sample Location: KAFB-106141

Port Depth: 170

Date: 10/6/2020

Screened Interval:

Top: 160 (ft. b.g.s)

Bottom: 170 (ft. b.g.s)

Sample Team: SN, AR

Sample Team

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded: Yes - No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~65°F

Pump ID: 1 Horiba ID: 2 Sample System ID: off Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port? Yes - No

Initial Static Pressure (inWC) -0.9

A. Pre-calculated purge volume (cu. ft)	2.158	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	33	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0833</u>	<u>0.20</u>	<u>20.24</u>	<u>2</u>	<u>33</u>

Sample ID: SV141-170-204 Duplicate Sample ID: NA

Canister Number(s): 15C00694

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106141-250

Sample Location: KAFB-106141

Port Depth: 250

Date: 10/6/2020

Screened Interval:

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s)

Sample Team: SN, AR

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear ~65°F

Pump ID: 1 Horiba ID: 2 Sample System ID: off Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.9

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	37	(Seconds)

Post Purge Static Pressure (inWC) -1.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0837</u>	<u>0.22</u>	<u>20.35</u>	<u>1</u>	<u>37</u>

Sample ID: SV141-250-204 Duplicate Sample ID: NA

Canister Number(s): 1SC00926

Regulator Number(s): AVG05073

SUMMA Initial Pressure: -22.0" Hg SUMMA Final Pressure: -3.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106141-350 Sample Location: KAFB-106141

Port Depth: 350 Date: 10/6/2020

Screened Interval: Sample Team: SN, AR

Top: 340 (ft. b.g.s)

Bottom: 350 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear ~65°F

Pump ID: 1 Horiba ID: 2 Sample System ID: off Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.0

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>40</u> <sup>AS</sup>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>41</u>	(Seconds)

Post Purge Static Pressure (inWC) -1.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020</u> <u>0840</u>	<u>0.22</u>	<u>20.54</u>	<u>2</u>	<u>41</u>

Sample ID: SV141-350-204 Duplicate Sample ID: NA

Canister Number(s): 15560955

Regulator Number(s): NA

SUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/07/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106141-450

Sample Location: KAFB-106141

Port Depth: 450

Date: 10/6/2020

Screened Interval:

Top: 440 (ft. b.g.s)

Bottom: 450 (ft. b.g.s)

Sample Team: SN, AR

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, ~65°F

Pump ID: 1 Horiba ID: 2 Sample System ID: off Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.0

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	5min 56	(Seconds)

Post Purge Static Pressure (inWC) -1.1

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/6/2020 0848</u>	<u>0.30</u>	<u>20.49</u>	<u>2</u>	<u>5min 56sec</u>

Sample ID: SV141-450-204 Duplicate Sample ID: NA

Canister Number(s): ISL01104

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/07/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106142-030 Sample Location: KAFB-106142

Port Depth: 030 Date: 10/5/2020

Screened Interval: Sample Team: Team 2

Top: 20 (ft. b.g.s)

Bottom: 30 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 75° sunny

Pump ID: EAI Horiba ID: EAI Sample System ID: EAI Manometer ID: FAL

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.728	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	25.92	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1243</u>	<u>0.36</u>	<u>19.85</u>	<u>3</u>	<u>26</u>

Sample ID: SV142-030-204 Duplicate Sample ID: NA

Canister Number(s): 1SC00342

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0" Hg SUMMA Final Pressure: -3.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106142-050 Sample Location: KAFB-106142

Port Depth: 050 Date: 10/15/2020

Screened Interval: Sample Team: Team 2

Top: 40 (ft. b.g.s)

Bottom: 50 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 75° sunny

Pump ID: EAL Horiba ID: EAL Sample System ID: EAL Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.789	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	26.8	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1246</u> <small>AS</small>	<u>0.32</u>	<u>19.72</u>	<u>3</u>	<u>27</u>

Sample ID: SV142-050-204 Duplicate Sample ID: NA

Canister Number(s): 15500163

Regulator Number(s): NA

SUMMA Initial Pressure: -24.5 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106142-170

Sample Location: KAFB-106142

Port Depth: 170

Date: 10/15/2020

Screened Interval:

Sample Team: Team 2

Top: 160 (ft. b.g.s)

Bottom: 170 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded: Yes  No

If yes, describe: \_\_\_\_\_

Weather observations: 75° Sunny

Pump ID: EAL

Horiba ID: EAL

Sample System ID: EAL

Manometer ID: EAL

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	2.158	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	32.37	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1249</u>	<u>0.12</u>	<u>19.72</u>	<u>1</u>	<u>33</u>

Sample ID: SV142-170-204

Duplicate Sample ID: SV142-170-604

Canister Number(s): Primary: 15C00771

Dup: 15S00783

Regulator Number(s): Primary: NA

Dup: NA

SUMMA Initial Pressure: P: -25.5"Hg HD: -24.0"Hg SUMMA Final Pressure: P: -2.0"Hg HD: 0.5"Hg

Comments: Threads on Dup were cross threaded a bit.

Reviewed by: Amber Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: KAFB-106142-250 Sample Location: KAFB-106142

Port Depth: 250 Date: 10/5/2020

Screened Interval: Sample Team: Team h

Top: 240 (ft. b.g.s)

Bottom: 250 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: \_\_\_\_\_

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: 75° Sunny

Pump ID: EA1 Horiba ID: EA1 Sample System ID: EA1 Manometer ID: EA1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	2.403	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump		(SCFM)
C. Purge time (Sec.)	36.0	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1254</u>	<u>0.141</u>	<u>19.72</u>	<u>4</u>	<u>36</u>

Sample ID: SV142-250-204 Duplicate Sample ID: NA

Canister Number(s): 15C00521

Regulator Number(s): NA

SUMMA Initial Pressure: -23.0 "Hg SUMMA Final Pressure: -0.5 "Hg

Comments: Threads on Summa were cross

Threaded L<sup>13</sup>

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106142-350Sample Location: KAFB-106142Port Depth: 350Date: 10/5/2020

Screened Interval:

Top: 340 (ft. b.g.s)Bottom: 350 (ft. b.g.s)Sample Team: Team D

Sample Team

Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 75° SunnyPump ID: EA1Horiba ID: PA2Sample System ID: EA1Manometer ID: EA1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	2.71	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	40.65	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1259</u>	<u>0.16</u>	<u>19.88</u>	<u>3</u>	<u>41</u>

Sample ID: SV142-350-204Duplicate Sample ID: NACanister Number(s): 15C01243Regulator Number(s): NASUMMA Initial Pressure: -25.5 "HgSUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda SmithReview Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: KAFB-106142-450Sample Location: KAFB-106142Port Depth: 450Date: 10/15/2020

Screened Interval:

Top: 440 (ft. b.g.s)Bottom: 450 (ft. b.g.s)Sample Team: Team 2

Sample Team

Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes - No

If yes, describe: \_\_\_\_\_

Weather observations: 75° SunnyPump ID: EA1 / Horiba ID: FA1 Sample System ID: EA1 Manometer ID: EA1Was the sample system purged of hydrocarbons before connection with well port: Yes - NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	23.725	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump		(SCFM)
C. Purge time (Sec.)	5 min 56	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/15/2020</u> <u>1307</u>	<u>0.02</u>	<u>20.27</u>	<u>0</u>	<u>5 min 56</u>

Sample ID: SV142-450-204Duplicate Sample ID: NACanister Number(s): 15C00930Regulator Number(s): NASUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amcanda SmithReview Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVEW-06-060Sample Location: SVEW-06/07Port Depth: 060Date: 10/5/2020

Screened Interval:

Top: 45 (ft. b.g.s)Bottom: 60 (ft. b.g.s)Sample Team: A. Rosebrough, S. NewmanPID in Wellhead: 0.0Sample Team  
Signature: [Signature]Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: EA2<sup>2</sup><sub>AR</sub> Sample System ID: S1A Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - No Initial Static Pressure (inWC) AR 245 0.0

A. Pre-calculated purge volume (cu. ft)	3.763	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	56.45	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020<sup>SN</sup></u> <u>1018</u>	<u>10.28</u>	<u>7.33</u>	<u>5120</u>	<u>57</u>

Sample ID: SVE06-060-204 Duplicate Sample ID: SVE06-060-604Canister Number(s): Primary: ISS00028 Dup: ISS00208Regulator Number(s): Primary: AVG04729 Dup: N/ASUMMA Initial Pressure: P: -26.0" D: -24.5" Hg SUMMA Final Pressure: P: -3.5" D: -4.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project: Kirtland AFB BFF ST-106/SS-111

Project Name: Bulk Fuels Facility

SVMP ID: SVEW-07-160

Sample Location: SVEW-06/07

Port Depth: 160

Date: 10/7/2020

Screened Interval:  
Top: 145 (ft. b.g.s)  
Bottom: 160 (ft. b.g.s)

Sample Team: SN, AR

PID in Wellhead: 0.0

Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes - No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, Clear, -80°F

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -0.1

A. Pre-calculated purge volume (cu. ft)	5.945	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.)	1 min 30 sec	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/7/2020</u> <u>1159</u>	<u>5.48</u>	<u>12.07</u>	<u>25060</u>	<u>1 min 30 sec</u>

Sample ID: SVE07-160-204 Duplicate Sample ID: NA

Canister Number(s): 15C01128

Regulator Number(s): AV605100

SUMMA Initial Pressure: -24.5 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Aracanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVEW-08-260

Sample Location: SVEW-08/09

Port Depth: 260

Date: 132 LB 10-7-2020

Screened Interval:

Sample Team: Team 1

Top: 245 (ft. b.g.s)

Bottom: 260 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

If Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 80° Sunny

Pump ID: 1 Horiba ID: 2 Sample System ID: 5751A Manometer ID: 2

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 4.0 0.4

A. Pre-calculated purge volume (cu. ft)	8.126	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	121.89	(Seconds)

Post Purge Static Pressure (inWC) 0.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/7/2020</u> <u>1349</u>	<u>3.78</u>	<u>15.31</u>	<u>705</u>	<u>2 min</u> <u>3 sec</u>

Sample ID: SVE08-260-204 Duplicate Sample ID: NA

Canister Number(s): 15C00276

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVEW-09-460 Sample Location: SVEW-08/09

Port Depth: 460 Date: 10/05/2020

Screened Interval: Sample Team: AR, SN

Top: 443 (ft. b.g.s)

Bottom: 457 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port?  Yes  No

Initial Static Pressure (inWC) -0.4

A. Pre-calculated purge volume (cu. ft)	12.261	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	184	(Seconds)

Post Purge Static Pressure (inWC) -0.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020<sup>SW</sup></u> <u>1039</u>	<u>0.28</u>	<u>20.26</u>	<u>10</u>	<u>184</u>

Sample ID: SVE09-460-204 Duplicate Sample ID: NA

Canister Number(s): ISC 00918

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 in Hg SUMMA Final Pressure: -3.5 in Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVEW-10-410

Sample Location: SVEW-10/SVMW-12

Port Depth: 410

Date: 10-19-2020

Screened Interval:

Top: 400 (ft. b.g.s)

Sample Team: Luke B + Nicole P

Bottom: 410 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0

Signature: Nicole Potts

Is Well damaged/Flooded:  Yes  No

If yes, describe: Rusted

Weather observations: 64°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	10.581	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.5	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	4 min 14 sec	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1057</u>	<u>0.26</u>	<u>19.99</u>	<u>4</u>	<u>4 min</u> <u>14 sec</u>

Sample ID: SVE10-410-204 Duplicate Sample ID: SVE10-410-604

Canister Number(s): Primary: 1SC01028 Dup: 1SS00910

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: -27.0" Hg D: -24.0" Hg SUMMA Final Pressure: P: -2.5" Hg D: -0.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/6/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVEW-11-410

Sample Location: SVEW-11/SVMW-13

Port Depth: 410

Date: 10-19-2020

Screened Interval:

Sample Team: Nicole P + Luke B

Top: 400 (ft. b.g.s)

Bottom: 410 (ft. b.g.s)

Sample Team  
Signature: Nicole P

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 79°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.9

A. Pre-calculated purge volume (cu. ft)	10.581	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.5	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	4 min 14 sec	(Seconds)

Post Purge Static Pressure (inWC) 0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1411</u>	<u>0.92</u>	<u>18.40</u>	<u>78</u>	<u>4 min</u> <u>14 sec</u>

Sample ID: SVE11-410-204 Duplicate Sample ID: SVE11-410-604

Canister Number(s): Primary: 15500187 Dup: 15001209

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: 25.0 "Hg D: -25.0 "Hg SUMMA Final Pressure: P: -5.0 "Hg D: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVEW-12-410

Sample Location: SVEW-12/SVMW-14

Port Depth: 410

Date: 10/13/2020

Screened Interval:

Sample Team: Team 2

Top: 400 (ft. b.g.s)

Bottom: 410 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded:  Yes - No If yes, describe: \_\_\_\_\_

Weather observations: 57° Sunny

Pump ID: 1 Horiba ID: 2 Sample System ID: SA1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -2.4

A. Pre-calculated purge volume (cu. ft)	10.581	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	4	(SCFM)
C. Purge time (Sec.)	2 min 39	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -2.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>10411</u>	<u>0.66</u>	<u>19.63</u>	<u>0</u>	<u>2 min 39</u>

Sample ID: SVE12-410-204 Duplicate Sample ID: NA

Canister Number(s): 15C00123

Regulator Number(s): NA

SUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -4.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVEW-13-410

Sample Location: SVEW-13/SVMW-15

Port Depth: 410

Date: 10-19-2020

Screened Interval:

Top: 400 (ft. b.g.s)

Bottom: 410 (ft. b.g.s)

Sample Team: Nicole P + Luke B

Sample Team

Signature: Nicole P

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 75°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) +0.0

A. Pre-calculated purge volume (cu. ft)	10.581	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.5	(SCFM)
C. Purge time (Sec.)	4 min 14 sec.	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) +0.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1322</u>	<u>2.10</u>	<u>13.51</u>	<u>1295</u>	<u>4 min</u> <u>14 sec</u>

Sample ID: SVE13-410-204 Duplicate Sample ID: NA

Canister Number(s): 15C00412

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0" Hg SUMMA Final Pressure: -2.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-01-050 Sample Location: SVMW-01

Port Depth: 050 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 50 (ft. b.g.s)

Bottom: 52.5 (ft. b.g.s)

Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.2

A. Pre-calculated purge volume (cu. ft)	0.481	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	15	(Seconds)

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>0852</u>	<u>12.26</u>	<u>1.02</u>	<u>0</u>	<u>15</u>

Sample ID: SV01-050-204 Duplicate Sample ID: NA

Canister Number(s): 155 00988

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/13/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

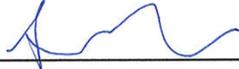
SVMP ID: SVMW-01-100 Sample Location: SVMW-01

Port Depth: 100 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 100 (ft. b.g.s)

Bottom: 102.5 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: 

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -0.2

A. Pre-calculated purge volume (cu. ft)	0.549	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	17	(Seconds)

Post Purge Static Pressure (inWC) -0.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>0856</u>	<u>13.84</u>	<u>0.14</u>	<u>13620</u>	<u>17</u>

Sample ID: SV01-100-204 Duplicate Sample ID: NA

Canister Number(s): 1SC00582

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.5" Hg SUMMA Final Pressure: -2.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda Smith

Review Date: 11/13/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-01-250 Sample Location: SVMW-01

Port Depth: 250 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 250.7 (ft. b.g.s)

Bottom: 253.2 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes No

Initial Static Pressure (inWC) -0.1

A. Pre-calculated purge volume (cu. ft)	<u>0.754</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>2.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>23</u>	(Seconds)

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>0901</u>	<u>6.68</u>	<u>10.89</u>	<u>8610</u>	<u>23</u>

Sample ID: SV01-250-204 Duplicate Sample ID: NA

Canister Number(s): ISS00967

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Auracunda Smith

Review Date: 11/13/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-01-300 Sample Location: SVMW-01

Port Depth: 300 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 308.5 (ft. b.g.s)

Bottom: 310 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes - (No) If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: (Yes) - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.668	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.)		(Seconds)
1. Equals A/B*60 (round up)	21	

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>0907</u>	<u>0.40</u>	<u>17.87</u>	<u>172</u>	<u>21</u>

Sample ID: SV01-300-204 Duplicate Sample ID: NA

Canister Number(s): ISC00592

Regulator Number(s): N/A

SUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Arcuska Smith

Review Date: 11/13/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-02-050 Sample Location: SVMW-02

Port Depth: 050 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 50 (ft. b.g.s)

Bottom: 52.5 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature: [Signature]

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.1

A. Pre-calculated purge volume (cu. ft)	0.481	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.)	15	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>0939</u>	<u>14.64</u>	<u>3.28</u>	<u>222</u>	<u>15</u>

Sample ID: SV02-050-204 Duplicate Sample ID: NA

Canister Number(s): 15500864

Regulator Number(s): AV605041

SUMMA Initial Pressure: -20.5 "Hg SUMMA Final Pressure: -3.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020

Quarter: 4

Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-02-100Sample Location: SVMW-02Port Depth: 100Date: 10/19/2020

Screened Interval:

Top: 97 (ft. b.g.s)Bottom: 99.5 (ft. b.g.s)Sample Team: Team 1

Sample Team

Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) -0.1

A. Pre-calculated purge volume (cu. ft)	0.545	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.)	17	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>0944</u>	<u>3.42</u>	<u>14.82</u>	<u>19260</u>	<u>17</u>

Sample ID: SV02-100-204Duplicate Sample ID: NACanister Number(s): 15508001Regulator Number(s): NASUMMA Initial Pressure: -25.0 "HgSUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/3/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-02-150 Sample Location: SVMW-02

Port Depth: 150 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 150 (ft. b.g.s)

Bottom: 152.5 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.617	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<del>AR 18.5</del> 19	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>0950</u>	<u>0.24</u>	<u>19.40</u>	<u>15070</u>	<u>19</u>

Sample ID: SV02-150-204 Duplicate Sample ID: SV02-150-604

Canister Number(s): Primary: 15C00803 Dup: 15500226

Regulator Number(s): Primary: N/A Dup: N/A

SUMMA Initial Pressure: P: -25.0 "Hg D: -25.0 "Hg SUMMA Final Pressure: P: 0.0 "Hg D: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-03-050 Sample Location: SVMW-03

Port Depth: 050 Date: 10/5/2020

Screened Interval: Sample Team: AR + SN

Top: 50 (ft. b.g.s)

Bottom: 52.5 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes -  No

Initial Static Pressure (inWC) 0.1

A. Pre-calculated purge volume (cu. ft)	0.481	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<del>17.4</del> 15	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1315</u>	<u>16.34</u>	<u>1.00</u>	<u>0</u>	<u>15</u>

Sample ID: SV03-050-204 Duplicate Sample ID: NA

Canister Number(s): 1SC00193

Regulator Number(s): N/A

SUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-03-100 Sample Location: SVMW-03Port Depth: 100 Date: 10/5/2020Screened Interval: Sample Team: AR + SNTop: 100 (ft. b.g.s)Bottom: 102.5 (ft. b.g.s) Sample Team Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - No Initial Static Pressure (inWC) 0.2

A. Pre-calculated purge volume (cu. ft)	0.549	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<del>16.47</del> 17	(Seconds) AR

Post Purge Static Pressure (inWC) 0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1320</u>	<u>11.14</u>	<u>4.88</u>	<u>16270</u>	<u>17</u>

Sample ID: SV03-100-204 Duplicate Sample ID: NACanister Number(s): 15C01241Regulator Number(s): N/ASUMMA Initial Pressure: -23.0 "Hg SUMMA Final Pressure: -4.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amranda SmithReview Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-03-250

Sample Location: SVMW-03

Port Depth: 250

Date: 10/5/2020

Screened Interval:

Sample Team: AR + SN

Top: 250 (ft. b.g.s)

Bottom: 252.5 (ft. b.g.s)

Sample Team

Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.1

A. Pre-calculated purge volume (cu. ft)	0.753	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	22.59	(Seconds)

Post Purge Static Pressure (inWC) 0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1326</u>	<u>1.04</u>	<u>18.29</u>	<u>12200</u>	<u>23</u>

Sample ID: SV03-250-204

Duplicate Sample ID: NA

Canister Number(s): ~~15501053~~ LB 15501053

Regulator Number(s): N/A

SUMMA Initial Pressure: -28.0 "Hg

SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-03-300Sample Location: SVMW-03Port Depth: 300Date: 10/5/2020

Screened Interval:

Top: 300 (ft. b.g.s)Sample Team: AR, SNBottom: 302.5 (ft. b.g.s)Sample Team Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear skiesPump ID: 2 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - No Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.821	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	24.63	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1332</u>	<u>7.18</u>	<u>9.71</u>	<u>13610</u>	<u>25</u>

Sample ID: SV03-300-204 Duplicate Sample ID: NACanister Number(s): 15500496Regulator Number(s): NASUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/7/2020



## Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-04-050Sample Location: SVMW-04Port Depth: 050Date: 10/5/2020

Screened Interval:

Top: 50 (ft. b.g.s)Bottom: 52.5 (ft. b.g.s)Sample Team: AR, SNPID in Wellhead: 0.0

Sample Team

Signature: Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) AR 0.2

A. Pre-calculated purge volume (cu. ft)	0.481	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	14.43	(Seconds)

Post Purge Static Pressure (inWC) 0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1407</u>	<u>996</u>	<u>834</u>	<u>5030</u>	<u>15</u>

Sample ID: SV04-050-204Duplicate Sample ID: SV04-050-604Canister Number(s): Primary: 15C00581Dup: 15S00037Regulator Number(s): Primary: N/ADup: N/ASUMMA Initial Pressure: P: -26.5" Hg D: -27.0" HgSUMMA Final Pressure: P: 0.0" Hg D: -9.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-04-100 Sample Location: SVMW-04

Port Depth: 100 Date: 10/5/2020

Screened Interval: Sample Team: AR, SN

Top: 98 (ft. b.g.s)

Bottom: 100.5 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.5

A. Pre-calculated purge volume (cu. ft)	0.546	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	16.38	(Seconds)

Post Purge Static Pressure (inWC) 0.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1414</u>	<u>2.64</u>	<u>16.76</u>	<u>23830</u>	<u>17</u>

Sample ID: SV04-100-204 Duplicate Sample ID: NA

Canister Number(s): 1SC00050

Regulator Number(s): NA

SUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: 0.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-04-250 Sample Location: SVMW-04

Port Depth: 250 Date: 10/5/2020

Screened Interval: Sample Team: AR, SN

Top: 250 (ft. b.g.s)

Bottom: 252.5 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0-0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, ~~Blue~~ clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) +0.5

A. Pre-calculated purge volume (cu. ft)	0.753	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	22.59	(Seconds)

Post Purge Static Pressure (inWC) +0.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1420</u>	<u>2.54</u>	<u>17.13</u>	<u>21240</u>	<u>23</u>

Sample ID: SV04-250-204 Duplicate Sample ID: NA

Canister Number(s): ISS00839

Regulator Number(s): N/A

SUMMA Initial Pressure: -27.5 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-04-300Sample Location: SVMW-04Port Depth: 300Date: 10/5/2020

Screened Interval:

Top: 297.5 (ft. b.g.s)Bottom: 300 (ft. b.g.s)Sample Team: AR, SNPID in Wellhead: 0.0Sample Team Signature: [Signature]Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port?  Yes  NoInitial Static Pressure (inWC) +0.2

A. Pre-calculated purge volume (cu. ft)	0.818	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	24.54	(Seconds)

Post Purge Static Pressure (inWC) +0.5

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1429</u>	<u>12.4<sup>SN</sup></u> <u>1.24</u>	<u>19.37</u>	<u>1405</u>	<u>25</u>

Sample ID: SV04-300-204 Duplicate Sample ID: NACanister Number(s): 15C00192Regulator Number(s): N/ASUMMA Initial Pressure: -28.9 "Hg SUMMA Final Pressure: -3.0 "HgComments: waited 5 minutes to stabilize post-purge static pressureReviewed by: Armando SmithReview Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-05-050

Sample Location: SVMW-05

Port Depth: 050

Date: 10/19/2020

Screened Interval:

Sample Team: Team 1

Top: 50 (ft. b.g.s)

Bottom: 52.5 (ft. b.g.s)

Sample Team Signature:

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.481	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	15	(Seconds)

Post Purge Static Pressure (inWC) -0.1

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>0800</u>	<u>6.00</u>	<u>8.45</u>	<u>0</u>	<u>15</u>

Sample ID: SV05-050-204 Duplicate Sample ID: SV05-050-604

Canister Number(s): Primary: 15C00 878 Dup: 15C00 272

Regulator Number(s): Primary: N/A Dup: N/A

SUMMA Initial Pressure: P: -27.0 "Hg D: -25.0 "Hg SUMMA Final Pressure: P: -2.0 "Hg D: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/13/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-05-100 Sample Location: SVMW-05

Port Depth: 100 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 100 (ft. b.g.s)

Bottom: 102.5 (ft. b.g.s) Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes - No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SVA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes No

Initial Static Pressure (inWC) -0.1

A. Pre-calculated purge volume (cu. ft)	<u>0.549</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>2.0</u>	(SCFM)
C. Purge time (Sec.)	<u>17</u>	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>0804</u>	<u>8.50</u>	<u>5.68</u>	<u>0</u>	<u>17</u>

Sample ID: SV05-100-204 Duplicate Sample ID: NA

Canister Number(s): 15500812

Regulator Number(s): N/A

SUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/13/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-05-230 Sample Location: SVMW-05

Port Depth: 230 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 229.5 (ft. b.g.s)

Bottom: 231 (ft. b.g.s) Sample Team Signature:

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) -0.1

A. Pre-calculated purge volume (cu. ft)	<u>0.56</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>2.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>17</u>	(Seconds)

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>0812</u>	<u>5.20</u>	<u>7.29</u>	<u>4070</u>	<u>17</u>

Sample ID: SV05-230-204 Duplicate Sample ID: NA

Canister Number(s): 155 00786

Regulator Number(s): N/A

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/13/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-05-290 Sample Location: SVMW-05

Port Depth: 290 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 287.5 (ft. b.g.s)

Bottom: 290 (ft. b.g.s)

PID in Wellhead: 0.0 Sample Team Signature:

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) +0.3

A. Pre-calculated purge volume (cu. ft)	<u>0.804</u>	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	<u>2.0</u>	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<u>25</u>	(Seconds)

Post Purge Static Pressure (inWC) +0.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>0817</u>	<u>0.54</u>	<u>17.45</u> <u>17.54 AR</u>	<u>15</u>	<u>25</u>

Sample ID: SV05-290-204 Duplicate Sample ID: NA

Canister Number(s): 1SC00251

Regulator Number(s): AVG04808

SUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/13/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-06-050Sample Location: SVMW-06Port Depth: 050Date: 10/19/2020

Screened Interval:

Top: 50 (ft. b.g.s)Bottom: 52.5 (ft. b.g.s)Sample Team: Team 1

Sample Team

PID in Wellhead: 0.0Signature: [Signature]Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port: Yes -  NoInitial Static Pressure (inWC) +0.2

A. Pre-calculated purge volume (cu. ft)	0.481	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	15	(Seconds)

Post Purge Static Pressure (inWC) +0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1315</u>	<u>1.04</u>	<u>16.91</u>	<u>0</u>	<u>15</u>

Sample ID: SV06-050-204Duplicate Sample ID: NACanister Number(s): 15C00397Regulator Number(s): AV604892SUMMA Initial Pressure: -25.0 <sup>inHg</sup>SUMMA Final Pressure: -3.0 <sup>inHg</sup>

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-06-100 Sample Location: SVMW-06

Port Depth: 100 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 99.5 (ft. b.g.s)

Bottom: 102 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) +0.4

A. Pre-calculated purge volume (cu. ft)	0.548	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	17	(Seconds)

Post Purge Static Pressure (inWC) +0.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1320</u>	<u>1.94</u>	<u>15.45</u>	<u>0</u>	<u>17</u>

Sample ID: SV06-100-204 Duplicate Sample ID: SV06-100-604

Canister Number(s): Primary: 15500784 Dup: 15001195

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: -26.5 "Hg D: -25.5 "Hg SUMMA Final Pressure: P: -4.0 "Hg D: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-06-252 Sample Location: SVMW-06

Port Depth: 252 Date: 10/19/2020

Screened Interval: Sample Team: Team 1

Top: 252 (ft. b.g.s)

Bottom: 254.5 (ft. b.g.s) Sample Team

PID in Wellhead: 0.0 Signature: [Signature]

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) +0.6

A. Pre-calculated purge volume (cu. ft)	0.756	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.)	23	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) +0.5

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1328</u>	<u>2.06</u>	<u>13.16</u>	<u>755</u>	<u>23</u>

Sample ID: SV06-252-204 Duplicate Sample ID: NA

Canister Number(s): 153 00 874

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -3.5 "Hg

Comments: Took 4 min for purge pressure to stabilize

Reviewed by: Amanda Smith

Review Date: 11/5/2020



## Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-06-302 Sample Location: SVMW-06Port Depth: 302 Date: 10/19/2020Screened Interval: Sample Team: Team 1Top: 302.5 (ft. b.g.s)Bottom: 305 (ft. b.g.s)PID in Wellhead: 0.0 Sample Team Signature: [Signature]Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - No Initial Static Pressure (inWC) +0.6

A. Pre-calculated purge volume (cu. ft)	0.825	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	25	(Seconds)

Post Purge Static Pressure (inWC) +0.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/19/2020</u> <u>1332</u>	<u>1.58</u>	<u>14.60</u>	<u>28</u>	<u>25</u>

Sample ID: SV06-302-204 Duplicate Sample ID: NACanister Number(s): ISS01028Regulator Number(s): AVG04576SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

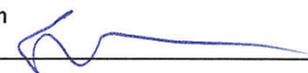
SVMP ID: SVMW-07-050 Sample Location: SVMW-07

Port Depth: 050 Date: 10/13/2020

Screened Interval: Sample Team: Team 1

Top: 49.5 (ft. b.g.s)

Bottom: 52 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: 

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~75°F

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -1.2

A. Pre-calculated purge volume (cu. ft)	0.48	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	14.4	(Seconds)

Post Purge Static Pressure (inWC) -1.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>1320</u>	<u>1.74</u>	<u>17.31</u>	<u>12550</u>	<u>15</u>

Sample ID: SV07-050-204 Duplicate Sample ID: NA

Canister Number(s): 15C00439

Regulator Number(s): N/A

SUMMA Initial Pressure: -24.5" Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-07-100Sample Location: SVMW-07Port Depth: 100Date: 10/13/2020

Screened Interval:

Top: 95.5 (ft. b.g.s)Bottom: 98 (ft. b.g.s)Sample Team: Team 1PID in Wellhead: 0.0

Sample Team

Signature: [Signature]Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, -75°FPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) -0.3

A. Pre-calculated purge volume (cu. ft)	0.543	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	17	(Seconds)

Post Purge Static Pressure (inWC) -0.2

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>1322</u>	<u>4.50</u>	<u>12.38</u>	<u>6820</u>	<u>17</u>

Sample ID: SV07-100-204Duplicate Sample ID: NACanister Number(s): 15500740Regulator Number(s): AUG04448SUMMA Initial Pressure: -25.0" HgSUMMA Final Pressure: -5.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



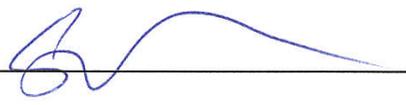
# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-07-150Sample Location: SVMW-07Port Depth: 150Date: 10/13/2020

Screened Interval:

Top: 147.5 (ft. b.g.s)Bottom: 150 (ft. b.g.s)Sample Team: Team 1PID in Wellhead: 0.0

Sample Team

Signature: Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear, ~75°FPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.614	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	19	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>1326</u>	<u>3.12</u>	<u>14.16</u>	<u>3</u>	<u>20</u>

Sample ID: SV07-150-204Duplicate Sample ID: NACanister Number(s): 15500025Regulator Number(s): N/ASUMMA Initial Pressure: -27.0 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-08-050

Sample Location: SVMW-08

Port Depth: 050

Date: 10/05/2020

Screened Interval:

Top: 50 (ft. b.g.s)

Bottom: 52.5 (ft. b.g.s)

Sample Team: AR, SN

Sample Team

Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -0.6

A. Pre-calculated purge volume (cu. ft)	0.481	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	14.43	(Seconds)

Post Purge Static Pressure (inWC) -0.6

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1114</u>	<u>0.94</u> <u>5690 SN</u>	<u>14.63</u>	<u>5690</u> <u>0.94 SN</u>	<u>16</u>

Sample ID: SV08-050-204

Duplicate Sample ID: NA

Canister Number(s): 18C00621

Regulator Number(s): NA

SUMMA Initial Pressure: -26.5" Hg

SUMMA Final Pressure: -2.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Annanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-08-100

Sample Location: SVMW-08

Port Depth: 100

Date: 10/05/2020

Screened Interval:

Top: 100 (ft. b.g.s)

Bottom: 102.5 (ft. b.g.s)

Sample Team: AR, SN

Sample Team

Signature: [Signature]

PID in Wellhead: \_\_\_\_\_

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SZA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.549	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	16.47	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1118</u>	<u>9.94</u>	<u>8.52</u>	<u>193</u>	<u>17</u>

Sample ID: SV08-100-204

Duplicate Sample ID: NA

Canister Number(s): 1SC00775

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0" Hg

SUMMA Final Pressure: -4.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-08-250

Sample Location: SVMW-08

Port Depth: 250

Date: 10/05/2020

Screened Interval:

Top: 250 (ft. b.g.s)

Bottom: 252.5 (ft. b.g.s)

Sample Team: AR, SN

Sample Team

Signature: [Signature]

PID in Wellhead: \_\_\_\_\_

Is Well damaged/Flooded: Yes - No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 2

Was the sample system purged of hydrocarbons before connection with well port: Yes - No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.753	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	22.59	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1126</u>	<u>3.08</u>	<u>16.59</u>	<u>10210</u>	<u>23</u>

Sample ID: SV08-250-204

Duplicate Sample ID: NA

Canister Number(s): 15600621<sup>SN</sup> 15500871

Regulator Number(s): NA

SUMMA Initial Pressure: -25.5" Hg

SUMMA Final Pressure: -3.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/17/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-09-050 Sample Location: SVMW-09Port Depth: 050 Date: 10/5/2020Screened Interval: Sample Team: AR, SNTop: 50 (ft. b.g.s)Bottom: 52.5 (ft. b.g.s) Sample Team Signature: PID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) + 0.5

A. Pre-calculated purge volume (cu. ft)	0.481	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	14.43	(Seconds)

Post Purge Static Pressure (inWC) + 0.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1450</u>	<u>12.70</u>	<u>9.72</u>	<u>2020</u>	<u>15</u>

Sample ID: SV09-050-204 Duplicate Sample ID: NACanister Number(s): 15C01248Regulator Number(s): N/ASUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -3.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-09-100

Sample Location: SVMW-09

Port Depth: 100

Date: 10/5/2020

Screened Interval:

Top: 100 (ft. b.g.s)

Bottom: 102.5 (ft. b.g.s)

Sample Team: AR, SN

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) +0.0

A. Pre-calculated purge volume (cu. ft)	0.549	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.)	16.47	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) +0.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1501</u>	<u>2.34</u>	<u>18.41</u>	<u>12960</u>	<u>17</u>

Sample ID: SV09-100-204 Duplicate Sample ID: NA

Canister Number(s): ISS00011

Regulator Number(s): N/A

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -0.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-09-250

Sample Location: SVMW-09

Port Depth: 250

Date: 10/5/2020

Screened Interval:

Top: 250 (ft. b.g.s)

Bottom: 252.5 (ft. b.g.s)

Sample Team: AR, SN

Sample Team

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: Sunny, clear skies

Pump ID: 1 Horiba ID: 2 Sample System ID: S1A Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) +0.9

A. Pre-calculated purge volume (cu. ft)	0.753	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	22.59	(Seconds)

Post Purge Static Pressure (inWC) +1.0

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1508</u>	<u>0.24</u>	<u>19.86</u>	<u>5100</u>	<u>23</u>

Sample ID: SV09-250-204

Duplicate Sample ID: NA

Canister Number(s): 15500233

Regulator Number(s): N/A

SUMMA Initial Pressure: -23.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/7/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-09-266 Sample Location: SVMW-09Port Depth: 266 Date: 10/5/2020Screened Interval: Sample Team: AR, SNTop: 266 (ft. b.g.s)Bottom: 268.5 (ft. b.g.s) Sample TeamPID in Wellhead: 0.0 Signature: [Signature]Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_Weather observations: Sunny, clear skiesPump ID: 1 Horiba ID: 2 Sample System ID: SIA Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) +0.9

A. Pre-calculated purge volume (cu. ft)	0.775	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	23.25	(Seconds)

Post Purge Static Pressure (inWC) +0.8

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/5/2020</u> <u>1513</u>	<u>1.38</u>	<u>18.36</u>	<u>18/20</u>	<u>24</u>

Sample ID: SV09-266-204 Duplicate Sample ID: NACanister Number(s): 15C00491Regulator Number(s): N/ASUMMA Initial Pressure: -25.5 "Hg SUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/7/2020



# Soil Vapor Purge and Sampling Log

 Year: 2020  
 Quarter: 4
Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-12-150Sample Location: SVEW-10/SVMW-12Port Depth: 150Date: 10-19-2020

Screened Interval:

Top: 150 (ft. b.g.s)Bottom: 152.5 (ft. b.g.s)Sample Team: Luke B + Nicole P

Sample Team

Signature: Nicole PPID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No

If yes, describe: \_\_\_\_\_

Weather observations: 64° F, sunnyPump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.617	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.)	19	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1102</u>	<u>0.24</u>	<u>18.06</u>	<u>4</u>	<u>19</u>

Sample ID: SV12-150-204Duplicate Sample ID: NACanister Number(s): 15C00328Regulator Number(s): NASUMMA Initial Pressure: -26.0 "HgSUMMA Final Pressure: -1.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Ammanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-12-250

Sample Location: SVEW-10/SVMW-12

Port Depth: 250

Date: 10-19-2020

Screened Interval:

Top: 250 (ft. b.g.s)

Bottom: 252.5 (ft. b.g.s)

Sample Team: Nicole P + Luke B

Sample Team Signature: Nicole P

PID in Wellhead: 0.0

Is Well damaged/Flooded:  Yes  No

If yes, describe: corroded

Weather observations: 64°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.753	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	23	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1105</u>	<u>0.28</u>	<u>19.46</u>	<u>6</u>	<u>23</u>

Sample ID: SV12-250-204 Duplicate Sample ID: NA

Canister Number(s): 15500153

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0" Hg SUMMA Final Pressure: -4.0" Hg

Comments: \_\_\_\_\_

Reviewed by: \_\_\_\_\_

Review Date: \_\_\_\_\_



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-12-350 Sample Location: SVEW-10/SVMW-12

Port Depth: 350 Date: 10-19-2020

Screened Interval: Sample Team: Nicole P + Luke B

Top: 350 (ft. b.g.s)

Bottom: 352.5 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: Nicole P

Is Well damaged/Flooded:  Yes  No If yes, describe: rusted

Weather observations: 64°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.89	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1108</u>	<u>0.66</u>	<u>20.03</u>	<u>4</u>	<u>27</u>

Sample ID: SV12-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C00484

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0 "Hg SUMMA Final Pressure: -2.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-12-450 Sample Location: SVEW-10/SVMW-12

Port Depth: 450 Date: 10-19-2020

Screened Interval: Sample Team: Nicole P + Luke B

Top: 450 (ft. b.g.s)

Bottom: 452.5 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: Nicole P

Is Well damaged/Flooded: Yes -  No If yes, describe: \_\_\_\_\_

Weather observations: 64°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	1.026	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.)	31	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1112</u>	<u>0.28</u>	<u>19.90</u>	<u>4</u>	<u>31</u>

Sample ID: SV12-450-204 Duplicate Sample ID: NA

Canister Number(s): 15C00010

Regulator Number(s): NA

SUMMA Initial Pressure: -24.0" Hg SUMMA Final Pressure: -3.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-13-150

Sample Location: SVEW-11/SVMW-13

Port Depth: 150

Date: 10-19-2020

Screened Interval:

Top: 150 (ft. b.g.s)

Bottom: 152.5 (ft. b.g.s)

Sample Team: Nicole P + Luke B

PID in Wellhead: 0.0

Sample Team  
Signature: Nicole P

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 79° F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port?  Yes  No

Initial Static Pressure (inWC) 0.8

A. Pre-calculated purge volume (cu. ft)	0.617	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	19	(Seconds)

Post Purge Static Pressure (inWC) 0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1417</u>	<u>6.40</u>	<u>9.61</u>	<u>918</u>	<u>19</u>

Sample ID: SV13-150-204 Duplicate Sample ID: NA

Canister Number(s): 15C00945

Regulator Number(s): NA

SUMMA Initial Pressure: -23.0 "Hg SUMMA Final Pressure: -0.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Aracanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-13-250

Sample Location: SVEW-11/SVMW-13

Port Depth: 250

Date: 10-19-2020

Screened Interval:

Top: 250 (ft. b.g.s)

Bottom: 252.5 (ft. b.g.s)

Sample Team: Nicole P + Luke B

Sample Team  
Signature: Nicole Potts

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 79°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.9

A. Pre-calculated purge volume (cu. ft)	0.753	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	23	(Seconds)

Post Purge Static Pressure (inWC) 0.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1421</u>	<u>0.64</u>	<u>19.85</u>	<u>3</u>	<u>23</u>

Sample ID: SV13-250-204 Duplicate Sample ID: NA

Canister Number(s): 155009016

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-13-350 Sample Location: SVEW-11/SVMW-13

Port Depth: 350 Date: 10-19-2020

Screened Interval: Sample Team: Nicole P + Luke B

Top: 350 (ft. b.g.s)

Bottom: 352.5 (ft. b.g.s)

PID in Wellhead: 0.0 Signature: Nicole P

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 79°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 1.1

A. Pre-calculated purge volume (cu. ft)	0.89	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) 1.1

Sample Date Sample Time	CO2 %	O2 %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1424</u>	<u>0.70</u>	<u>19.35</u>	<u>4</u>	<u>27</u>

Sample ID: SV13-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C00170

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0" Hg SUMMA Final Pressure: -2.0" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-13-450

Sample Location: SVEW-11/SVMW-13

Port Depth: 450

Date: 10-19-2020

Screened Interval:

Top: 450 (ft. b.g.s)

Bottom: 452.5 (ft. b.g.s)

Sample Team: Nicole P + Luke B

Sample Team

Signature: Nicole P

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 79°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 1.0

A. Pre-calculated purge volume (cu. ft)	1.026	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	31	(Seconds)

Post Purge Static Pressure (inWC) 0.9

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1428</u>	<u>0.84</u>	<u>17.74</u>	<u>4</u>	<u>31</u>

Sample ID: SV13-450-204 Duplicate Sample ID: NA

Canister Number(s): 15500896

Regulator Number(s): NA

SUMMA Initial Pressure: -27.0" Hg SUMMA Final Pressure: -3.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-14-150

Sample Location: SVEW-12/SVMW-14

Port Depth: 150

Date: 10/13/2020

Screened Interval:

Sample Team: Team 1

Top: 150 (ft. b.g.s)

Bottom: 152.5 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Is Well damaged/Flooded:  Yes - No

If yes, describe: Bolts Rusted/Unthreaded

Weather observations: 57° Sunny

Pump ID: 1 Horiba ID: 2 Sample System ID: SAL Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -2.2

A. Pre-calculated purge volume (cu. ft)	0.617	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	19	(Seconds)

Post Purge Static Pressure (inWC) -2.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>1026</u>	<u>0.20</u>	<u>18.42</u>	<u>0</u>	<u>19</u>

Sample ID: SV14-150-204 Duplicate Sample ID: NA

Canister Number(s): 15500260

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: Rusty Quick Connect

AJF - Bolt/Security

Reviewed by: Ananda Simtri

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-14-250Sample Location: SVEW-12/SVMW-14Port Depth: 250Date: 10/13/2020

Screened Interval:

Top: 250 (ft. b.g.s)Bottom: 252.5 (ft. b.g.s)Sample Team: Team 1Sample Team  
Signature: [Signature]PID in Wellhead: 0.0Is Well damaged/Flooded:  Yes - NoIf yes, describe: Vault/Bolts rustedWeather observations: 57° SunnyPump ID: 1 Horiba ID: 2 Sample System ID: SA1 Manometer ID: 2Was the sample system purged of hydrocarbons before connection with well port:  Yes - NoInitial Static Pressure (inWC) -2.3

A. Pre-calculated purge volume (cu. ft)	0.753	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	23	(Seconds)

Post Purge Static Pressure (inWC) -2.3

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>1028</u>	<u>0.26</u>	<u>18.32</u>	<u>0</u>	<u>23</u>

Sample ID: SV14-250-204 Duplicate Sample ID: NACanister Number(s): 15500206Regulator Number(s): NASUMMA Initial Pressure: -26.5 "Hg SUMMA Final Pressure: -5.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-14-350

Sample Location: SVEW-12/SVMW-14

Port Depth: 350

Date: 10/13/2020

Screened Interval:

Sample Team: Team 1

Top: 350 (ft. b.g.s)

Bottom: 352.5 (ft. b.g.s)

Sample Team Signature: [Signature]

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded:  Yes - No

If yes, describe: \_\_\_\_\_

Weather observations: \_\_\_\_\_

Pump ID: 1 Horiba ID: 2 Sample System ID: SAL Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -2.4

A. Pre-calculated purge volume (cu. ft)	0.89	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	4.526727	(Seconds)

Post Purge Static Pressure (inWC) -2.4

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>1032</u>	<u>0.20</u>	<u>19.26</u>	<u>0</u>	<u>27</u>

Sample ID: SV14-350-204 Duplicate Sample ID: NA

Canister Number(s): 15C01047

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0 "Hg SUMMA Final Pressure: -2.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-14-450

Sample Location: SVEW-12/SVMW-14

Port Depth: 450

Date: 10/13/2020

Screened Interval:

Top: 450 (ft. b.g.s)

Bottom: 452.5 (ft. b.g.s)

Sample Team: Team 1

Sample Team

PID in Wellhead: 0.0

Signature: [Signature]

Is Well damaged/Flooded:  Yes - No

If yes, describe: \_\_\_\_\_

Weather observations: 57° Sunny

Pump ID: 1 Horiba ID: 2 Sample System ID: SA1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes - No

Initial Static Pressure (inWC) -2.4

A. Pre-calculated purge volume (cu. ft)	1.026	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2	(SCFM)
C. Purge time (Sec.)	31	(Seconds)
1. Equals A/B*60 (round up)		

Post Purge Static Pressure (inWC) -2.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10/13/2020</u> <u>1035</u>	<u>0.88</u>	<u>19.67</u>	<u>0</u>	<u>31</u>

Sample ID: SV14-450-204 Duplicate Sample ID: SV14-450-604

Canister Number(s): Primary: 15500045 Dup: 15501104

Regulator Number(s): Primary: NA Dup: NA

SUMMA Initial Pressure: P: -25.0 "Hg D: -27.0 "Hg SUMMA Final Pressure: P: -4.0 "Hg D: -1.5 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 10/20/2020



## Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4Project Name: Bulk Fuels FacilityProject: Kirtland AFB BFF ST-106/SS-111SVMP ID: SVMW-15-150Sample Location: SVEW-13/SVMW-15Port Depth: 150Date: 10-19-2020

Screened Interval:

Top: 150 (ft. b.g.s)Bottom: 152.5 (ft. b.g.s)Sample Team: Nicole P + Luke B

Sample Team

Signature: Nicole PPID in Wellhead: 0.0Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_Weather observations: 75°F, sunnyPump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1Was the sample system purged of hydrocarbons before connection with well port:  Yes  NoInitial Static Pressure (inWC) +0.5

A. Pre-calculated purge volume (cu. ft)	0.617	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	19	(Seconds)

Post Purge Static Pressure (inWC) +0.5

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1326</u>	<u>0.54</u>	<u>18.27</u>	<u>5</u>	<u>19</u>

Sample ID: SV15-150-204 Duplicate Sample ID: NACanister Number(s): 15501016Regulator Number(s): NASUMMA Initial Pressure: -27.5" Hg SUMMA Final Pressure: -2.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda SmithReview Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-15-250 Sample Location: SVEW-13/SVMW-15

Port Depth: 250 Date: 10-19-2020

Screened Interval: Sample Team: Luke B + Nicole P

Top: 250 (ft. b.g.s)

Bottom: 252.5 (ft. b.g.s) Sample Team Signature: Nicole P

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 75°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) 0.0

A. Pre-calculated purge volume (cu. ft)	0.753	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	23	(Seconds)

Post Purge Static Pressure (inWC) 0.0

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1329</u>	<u>0.66</u>	<u>17.20</u>	<u>9</u>	<u>25</u>

Sample ID: SV15-250-204 Duplicate Sample ID: NA

Canister Number(s): 15500082<sup>NP</sup> 15500940

Regulator Number(s): NA

SUMMA Initial Pressure: -25.0" Hg SUMMA Final Pressure: -3.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-15-350

Sample Location: SVEW-13/SVMW-15

Port Depth: 350

Date: 10-19-2020

Screened Interval:

Top: 350 (ft. b.g.s)

Bottom: 352.5 (ft. b.g.s)

Sample Team: Luke B + Nicole P

PID in Wellhead: 0.0

Sample Team  
Signature: Nicole P

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 75°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port?  Yes  No

Initial Static Pressure (inWC) +0.7

A. Pre-calculated purge volume (cu. ft)	0.89	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	27	(Seconds)

Post Purge Static Pressure (inWC) +0.7

Sample Date Sample Time	CO2 %	O2%	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1334</u>	<u>0.98</u>	<u>15.05</u>	<u>184</u>	<u>30</u>

Sample ID: SV15-350-204 Duplicate Sample ID: NA

Canister Number(s): 15500901

Regulator Number(s): NA

SUMMA Initial Pressure: -21.0" Hg SUMMA Final Pressure: -3.5" Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020



# Soil Vapor Purge and Sampling Log

Year: 2020  
Quarter: 4

Project Name: Bulk Fuels Facility

Project: Kirtland AFB BFF ST-106/SS-111

SVMP ID: SVMW-15-450

Sample Location: SVEW-13/SVMW-15

Port Depth: 450

Date: 10-19-2020

Screened Interval:

Top: 450 (ft. b.g.s)

Bottom: 452.5 (ft. b.g.s)

Sample Team: Nicole P + Luke B

Sample Team  
Signature: Nicole P

PID in Wellhead: 0.0

Is Well damaged/Flooded: Yes -  No  If yes, describe: \_\_\_\_\_

Weather observations: 75°F, sunny

Pump ID: 1 Horiba ID: 1 Sample System ID: 1 Manometer ID: 1

Was the sample system purged of hydrocarbons before connection with well port:  Yes  No

Initial Static Pressure (inWC) +0.7

A. Pre-calculated purge volume (cu. ft)	1.026	(Ft <sup>3</sup> )
B. Flow rate on flowmeter for air pump	2.0	(SCFM)
C. Purge time (Sec.) 1. Equals A/B*60 (round up)	<del>30</del> <sup>NP</sup> 31	(Seconds)

Post Purge Static Pressure (inWC) +0.6

Sample Date Sample Time	CO <sub>2</sub> %	O <sub>2</sub> %	Hydro Carbons (ppmv)	Actual Purge Time (seconds)
<u>10-19-2020</u> <u>1338</u>	<u>4.72</u>	<u>9.06</u>	<u>4090</u>	<u>31</u>

Sample ID: SV15-450-204 Duplicate Sample ID: NA

Canister Number(s): 15500881

Regulator Number(s): NA

SUMMA Initial Pressure: -26.0 "Hg SUMMA Final Pressure: -4.0 "Hg

Comments: \_\_\_\_\_

Reviewed by: Amanda Smith

Review Date: 11/5/2020

Kirtland AFB Bulk Fuels Facility -- 82735DM02  
Daily Quality Control Report -- Non-Construction

ROLE: Field Sampler

DATE: 10/5/20

Team # 1

**1. ONSITE PERSONNEL (including subcontractors and government employees)**

Name	Organization
Carlos Montoya	EA - Site Manager/Supervisor
Stephen Newman	Sundance - sampler
Amy Rosebrough	EA - sampler

**2. OPERATING EQUIPMENT**

Horiba	Sample System	Manometer	Vacuum Pump
2	SIA	1	1

**3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)**

Sample all ports at KAFB - 06/24, SVEW - 06/07, SVEW-08/09, SVMW-08, -03, -04, -09.

**4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)**

0700	Arrive on site to prep for field day. Perform Horiba calibration and leak test.
0815	Arrive at KAFB-106124 to train people.
0930	Arrive at SVEW-06/07. Sample all ports (just SVEW-06-060)
0948	leave to field trailer to re-calibrate Horiba
1007	Arrive back at SVEW-06/07 and SVEW-08/09
1100	leave SVEW-08/09 for SVMW-08
1103	Arrive at SVMW-08
1151	Leave SVMW-08 for SVMW-03
1200	Arrive at SVMW-03
1338	leave SVMW-03 for SVMW-04
1350	Arrive at SVMW-04

Reviewed by: Stephen Newman

Reviewed date: 11/17/2020



Kirtland AFB Bulk Fuels Facility - 62735DM02  
Daily Quality Control Report - Non-Construction

ROLE: Team # 2

DATE: 10/05/2020

Team # 2

**1. ONSITE PERSONNEL (including subcontractors and government employees)**

Name	Organization
Carlos Montoya	EA - Site Manager/Supervisor
Curtis Landers	EA - Geologist
Luke Beasley	Sundance
CRL 10/05/20	

**2. OPERATING EQUIPMENT**

Horiba	Sample System	Manometer	Vacuum Pump
EAZ	EA1	EA1	EA1
CRL 10/05/20			

**3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)**

CRL  
10/05/2020

**4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)**

0749	Left BFF Trailer headed to KAFB-106124
0800	Arrived to go over procedures at KAFB-106124
0840	Sampled KAFB106124, 25' well
0845	Left KAFB106124 for field trailer
0850	Arrive at field trailer for supplies
0853	Leave field trailer headed back to KAFB-106124
0859	Arrive back @ KAFB106124 to finish sampling
0959	Leave KAFB106124 headed to KAFB106127
1000	Arrive at KAFB-106127
1047	Leave KAFB-106127 head to KAFB-106127
1048	Arrive at KAFB-106127
1135	Leave KAFB-106127 headed to field trailer

DQCR Page 1 of 2

Reviewed by: Stephen Newman

Reviewed date: 11/17/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10/05/2020

4. WORK PERFORMED (Continued)	
1138	Arrive at field trailer for pressure test & flow through
1211	Leave field trailer headed for KAFB-106128 on 142
1223	Arrive at KAFB-106142
1310	Leave KAFB-106142 headed for gas station
1319	Arrive at Gas Station
1322	Leave Gas Station headed for KAFB-106028
1330	Arrive at KAFB-106028
1408	Leave KAFB-106028 headed for field trailer
1426	Arrive at field trailer
1440	EOD

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Curtis Landers  
Name

Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: Stephen Newman

Reviewed date: 11/17/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Soil Vapor Sampling

DATE: 10/6/2020

WEATHER: Sunny, clear skies

1. ONSITE PERSONNEL (including subcontractors and government employees)

Name	Organization
<u>Carlos Montoya</u>	<u>EA - Site Manager/Supervisor</u>
<u>[Redacted]</u>	<u>EA - Site Health and Safety Office</u>
<u>Amy Rosebrough</u>	<u>EA - field sampler</u>
<u>Stephen Newman</u>	<u>Sundance - field sampler</u>
<u>[Redacted]</u>	<u>[Redacted]</u>
<u>[Redacted]</u>	<u>[Redacted]</u>
<u>[Redacted]</u>	<u>[Redacted]</u>

AR

2. OPERATING EQUIPMENT

Team #1	Team #2	Spare
YSI Professional Plus 15K101398 Wh0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 Wh0001 <input type="checkbox"/>	YSI Professional Plus 15L100544 Wh0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 Wh0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 Wh0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 Wh0006 <input type="checkbox"/>
Hach 2100Q 15100C045034 Wh0008 <input type="checkbox"/>	Hach 2100Q 15100C044633 Wh0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 Wh0007 <input type="checkbox"/>
Solinst Water Level Meter 253054 <input type="checkbox"/>	Solinst Water Level Meter 253053 <input type="checkbox"/>	Solinst Water Level Meter 253056 <input type="checkbox"/>

AR

SN

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

<u>Wells sampled: KAFB-106141, KAFB-106139, KAFB-106136, KAFB-106141, KAFB-106128</u>
<u>[Redacted]</u>

AR

AR

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

<u>0700</u>	<u>Arrive at trailer, conduct calibration and leak tests</u>
<u>0743</u>	<u>Leave trailer for KAFB-106141</u>
<u>0757</u>	<u>Arrive at KAFB-106141</u>
<u>0857</u>	<u>Leave KAFB-106141 for KAFB-106139</u>

AR  
AR

Reviewed by: Stephen Newman Initials: SN

Reviewed date: 11/17/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10/6/20

4. WORK PERFORMED (Continued)	
0859	Arrive at KAFB-106138
1000	Leave KAFB-106138 for trailer
1011	Arrive at trailer, pick up more suma canisters
1013	leave trailer for gas station
1020	Arrive at gas station, fill up truck + generator
1030	leave gas station for KAFB-106136
1033	Arrive at KAFB-106136
1131	Leave KAFB-106136 for trailer
1137	Arrive at trailer to conduct leak and bump test
1220	leave trailer for KAFB-106114
1223	Arrive at KAFB-106114
1320	Leave KAFB-106114 for <del>KAFB-106028</del> <sup>AR</sup> 106128
1321	Arrive at KAFB- <del>106028</del> <sup>AR</sup> 106128
1414	leave KAFB-106128 for trailer
1417	Arrive at trailer, conduct leak + Bump test
1445	off-site

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name Amy Rosebrough

Signature [Handwritten Signature]

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: Stephen Newman

Reviewed date: 11/17/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: SVM Sample Team #2

DATE: 10/16/20

WEATHER: 52° Sunny

1. ONSITE PERSONNEL (including subcontractors and government employees)

Name	Organization
Luke	EA - Site Manager/Supervisor
	EA - Site Health and Safety Office
Luke Beasley	
Curtis Lardis	

2. OPERATING EQUIPMENT

Team #1	Team #2	Spare
YSI Professional Plus 15K101396 Wh0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 Wh0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 Wh0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 Wh0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 Wh0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 Wh0006 <input type="checkbox"/>
Hach 2100Q 15100C045034 Wh0008 <input type="checkbox"/>	Hach 2100Q 15100C044633 Wh0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 Wh0007 <input type="checkbox"/>
Solinst Water Level Meter 253054 <input type="checkbox"/>	Solinst Water Level Meter 253053 <input type="checkbox"/>	Solinst Water Level Meter 253056 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Sampled ports at KAFB-106117, -106133, -106111, and -106116.

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0700 Arrive on site, start Leak Test  
 0710 Safety Tailgate → Slip, trips and falls. Be aware of Bees, Wasps and ants.  
 0715 Prepare For Sampling and Performed Flow

Reviewed by: Stephen Newman Initials: SN

Reviewed date: 11/17/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10/6/2020

4. WORK PERFORMED (Continued)	
	through test on Hornba sample
	locations today are KAFB-106117, 106133,
	106111, 106116.
0745	Leaving Trailer, heading towards 106116 and
	106117 clusters
0805	Arrive At 106116 Cluster
0819	First Sample Time, this cluster
	has 6 samples + Dup
0845	Arrive at 106117
0909	Initial Sample time at 106117
	cluster
0933	Final Sample time at 106117.
0940	Heading Back to trailer for leak
	and bump test
1000	Bump and leak test passed. Taking
	inventory of canisters to make sure
	we have enough.
1020	Heading towards 106133 cluster.
1025	Arrive at 106133 for sampling.
1045	Initial Sample time at 106133-025 final
	sample time at 106133-450 was 1108
1113	Heading to KAFB-106111
1119	Arrive at KAFB-106111 for sampling
1208	Heading Back to trailer for leak test and sh. prep
1230	Leak and Bump Test passed. Ship Prep.
1300	OFF-SITE

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Luke Beasley  
Name

  
Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: Stephen NewmanReviewed date: 11/17/2020





Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #2 SUM

DATE: 10/12/2020

WEATHER: See purge logs

1. ONSITE PERSONNEL (including subcontractors and government employees)

Name	Organization
<u>Luke Beasley</u>	EA - Site Manager/Supervisor
<u>TYR CUNNEY</u>	EA - Site Health and Safety Office

2. OPERATING EQUIPMENT

Team #1	Team #2	Spare
YSI Professional Plus 15K101398 Wh0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 Wh0001 <input type="checkbox"/>	YSI Professional Plus 15L100341 Wh0002 <input checked="" type="checkbox"/>
MiniRAE 3000 592-915778 Wh0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 Wh0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 Wh0006 <input type="checkbox"/>
Hach 2100Q 15100C045034 Wh0008 <input type="checkbox"/>	Hach 2100Q 15100C044633 Wh0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 Wh0007 <input type="checkbox"/>
Solinst Water Level Meter 253054 <input type="checkbox"/>	Solinst Water Level Meter 253053 <input type="checkbox"/>	Solinst Water Level Meter 253056 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

<u>SUM @ samples at;</u>
<u>KAFB - 106135</u>
<u>KAFB - 106137</u>
<u>KAFB - 106139</u>
<u>KAFB - 106132</u>
<u>KAFB - 106134</u>

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

<u>0645</u>	<u>Arrive on site</u>
<u>0700</u>	<u>Safety Brief and Tailgate</u>
<u>0705</u>	<u>Prep Bottles, Paperwork and Leak-Test</u>
<u>0730</u>	<u>EPA Horiba not calibrating correctly</u>

Reviewed by: Stephen Newman Initials: SN

Reviewed date: 11/07/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10/12/2020

4. WORK PERFORMED (Continued)	
	Moving to EAI For calibration
0800	calibration and flow thru Pass
0810	Arrive at KAFB-106139 cluster
	First sample time 0841 and
	last sample time 0915 at 106139
	cluster
0920	Arrive at 106137 cluster. Sample start
	0945 and last sample at 1008.
1020	Arrive at KAFB-106135 cluster
1121	Sample time started at 1046 and
	last sample at 1108. Back to trailer
	for leak and Bump test
1150	Leak and Bump test passed. Heading
	to KAFB-106132 cluster. First sample
	time 1214 and last sample at 1235.
1239	leaving 106132 → KAFB 106134 cluster
1312	Initial sample time at KAFB-106134
	Final sample time 1321.
1340	Heading back to trailer to unload
	and perform leak test.
1400	Leak test passed, discussing plans
	for tomorrow
1415	OFFS, TP

6. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Luke Beasley  
Name

  
Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: Stephen Newman

Reviewed date: 11/17/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: SVM Sampling

DATE: 10/13/2020

WEATHER: See Purge Log

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Carlos Montoya</u>	EA - Site Manager/Supervisor
<del>_____</del>	<del>EA - Site Health and Safety Office</del>
<u>Amy Roseborough</u>	EA - sampling staff
<u>Stephen Newman</u>	Sundance - Sampling staff
<u>Luke Beasley</u>	Sundance - Sampling staff

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 15K101398 Wh0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 Wh0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 Wh0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 Wh0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 Wh0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 Wh0006 <input type="checkbox"/>
Hach 2100Q 15100C045034 Wh0008 <input type="checkbox"/>	Hach 2100Q 15100C044633 Wh0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 Wh0007 <input type="checkbox"/>
Solinst Water Level Meter 253054 <input type="checkbox"/>	Solinst Water Level Meter 253053 <input type="checkbox"/>	Solinst Water Level Meter 253056 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

0700	Arrive on site
0730	leave trailer for KAFB -106113
0733	Arrive at KAFB -106113
0834	leave KAFB - 106113 for KAFB - 106115
0836	Arrive at KAFB -106115
0934	leave KAFB -106115 for trailer
0936	Arrive at trailer
1000	Amy and Tyler will stay at trailer to work on COCs. Stephen and Luke are now Team 1, and will continue sampling.
1015	Arrive at SUEW-12/SUMW-14; sample all ports

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

1115	Return to trailer to prep for shipping
1300	Arrive at SUMW-07; sample all parts.
1340	Return to trailer, off-load equipment perform leak and bump test

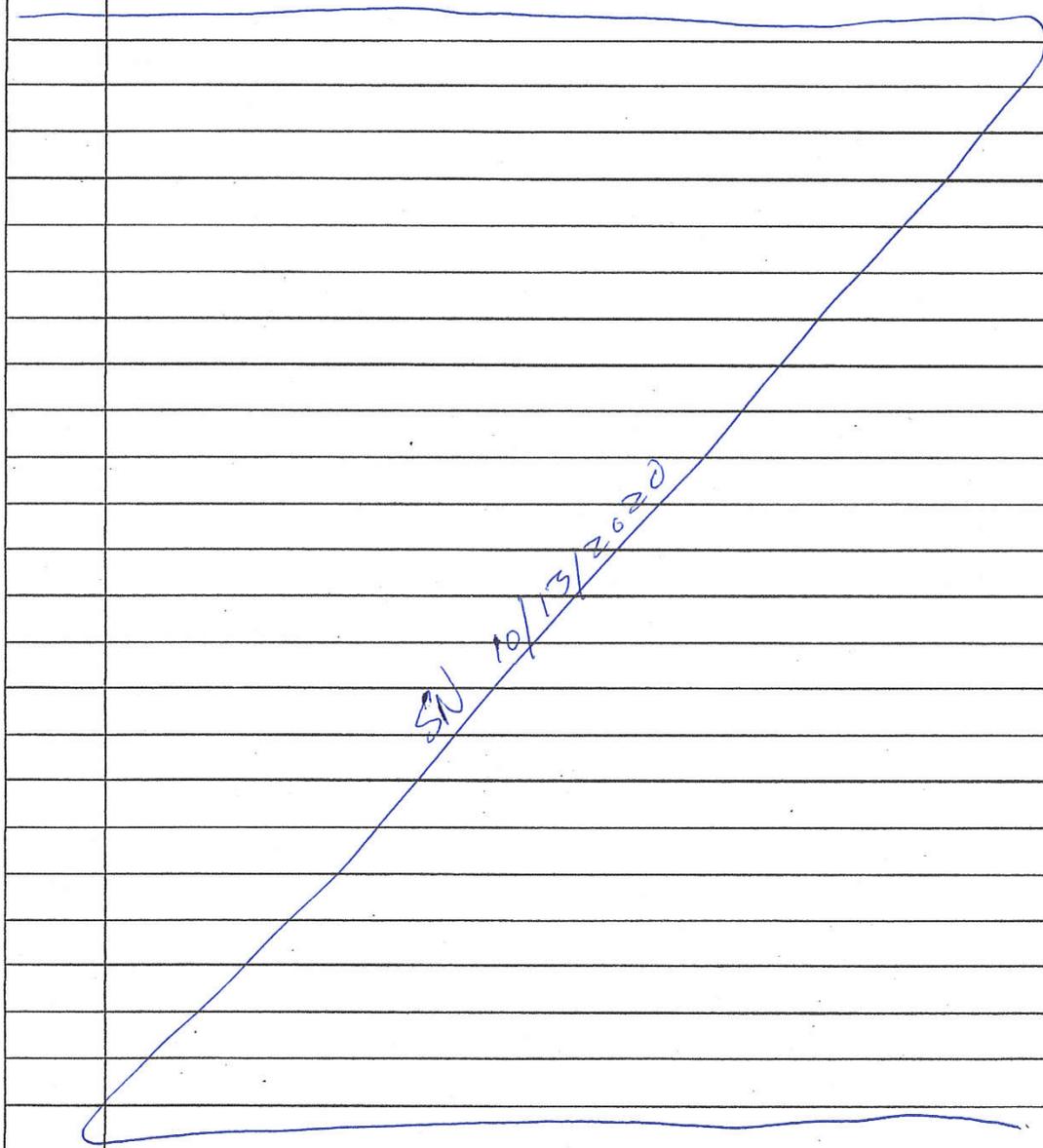
Reviewed by: Justin Fitch

Initials: JF

Reviewed date: 11/18/2020

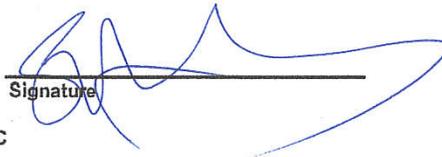
Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10/13/2020

4. WORK PERFORMED (Continued)		
1415	off site.	
		

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Stephen Newman  
Name

  
Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: Justin Fith

Reviewed date: 11/18/2020







Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10/19/2020

4. WORK PERFORMED (Continued)	
0914	Leave SVMW-01 for SVMW-02
0924	Arrive at SVMW-02
0955	Leave SVMW-02 for <del>SVMW-01</del> trailer
0959	Arrive at trailer, bump test and leak test
1045	leave trailer for KAFB-106131
1055	Arrive at KAFB-106131
1146	Leave KAFB-106131 for KAFB-106129
1149	Arrive at KAFB-106129
1235	leave KAFB-106129 for trailer to pick up cans
1238	Arrive at trailer
1252	leave trailer for SVMW-06
1257	Arrive at SVMW-06
1336	leave SVMW-06 for trailer
1338	Arrive at trailer, count cans, bump test, leak
<del>AR</del>	test
1445	off-site.

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name Amy Rosebrough

Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: Stephen Newman

Reviewed date: 11/17/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: SVM Sampling Team 2

DATE: Oct. 19 2020

WEATHER: Sunny, 41°F when starting, calm

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Luke Beasley	EA - Site Manager/Supervisor - NP Sundance
Nicole Peterson	EA - Site Health and Safety Office - NP EA
<del>NP</del>	

2. OPERATING EQUIPMENT					
Team #1		Team #2		Spare	
YSI Professional Plus 15K101398 Wh0003	<input type="checkbox"/>	YSI Professional Plus 15K101396 Wh0001	<input type="checkbox"/>	YSI Professional Plus 15L100541 Wh0002	<input type="checkbox"/>
MiniRAE 3000 592-915778 Wh0005	<input type="checkbox"/>	MiniRAE 3000 592-915790 Wh0004	<input type="checkbox"/>	MiniRAE 3000 592-915579 Wh0006	<input type="checkbox"/>
Hach 2100Q 15100C045034 Wh0008	<input type="checkbox"/>	Hach 2100Q 15100C044633 Wh0009	<input type="checkbox"/>	Hach 2100Q 15100C045025 Wh0007	<input type="checkbox"/>
Solinst Water Level Meter 253054	<input type="checkbox"/>	Solinst Water Level Meter 253053	<input type="checkbox"/>	Solinst Water Level Meter 253056	<input type="checkbox"/>

Pump ID: 1  
Moriba ID: 1  
Sample System ID: 1  
Manometer ID: 1

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
<del>NP</del>	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0740	Leaving BFF trailer for KAFB-108
0750	Arrived at KAFB-108
0910	Leaving KAFB-108 for KAFB-118
0918	Arrived at KAFB-118

Reviewed by: Stephen Newman Initials: SN

Reviewed date: 11/17/2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Sampler

DATE: 10/20/2020

WEATHER: See purge logs

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Carlos Montoya</u>	EA - Site Manager/Supervisor
	EA - Site Health and Safety Office
<u>Stephen Newman</u>	<u>Sondance - sampler</u>
<u>Luke Beasley</u>	<u>Sondance - Sampler</u>

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 15K101398 Wh0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 Wh0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 Wh0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 Wh0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 Wh0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 Wh0006 <input type="checkbox"/>
Hach 2100Q 15100C045034 Wh0008 <input type="checkbox"/>	Hach 2100Q 15100C044633 Wh0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 Wh0007 <input type="checkbox"/>
Solinst Water Level Meter 253054 <input type="checkbox"/>	Solinst Water Level Meter 253053 <input type="checkbox"/>	Solinst Water Level Meter 253056 <input type="checkbox"/>

SN  
10/20/2020

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Arrive on site to prep samples for shipment. Not enough sample equipment to sample all wells. More equipment arrived at 1100, so we sampled the rest of the SUMP's at KAFB-106130, 106126, and 106119.

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0730 Arrive on-site to prep samples for shipping. Waiting for extra sample equipment to arrive.

1030 ~~Perform leak and top soil~~ Perform leak test and calibration.

Reviewed by: Stephen Newman Initials: SN

11/17/2020  
Reviewed date: 11/17/2020

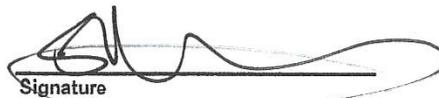
Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
 Daily Quality Control Report - Non-Construction

DATE: 10/20/2020

4. WORK PERFORMED (Continued)	
1120	Arrive at KAFB-106130; sample all ports plus one duplicate.
1220	Arrive at KAFB-106126; sample all ports.
1305	Arrive at KAFB-106119; sample all ports.
1400	Return to trailer to perform bump and leak test.
1445	off-site

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Stephen Newman  
 Name

  
 Signature

EA Engineering, Science and Technology Inc., PBC

Reviewed by: Justin Fitch

Reviewed date: 11/10/2020

Team 1

# Horiba Calibration Sheet

Horiba ID #: 2

Date/time	Known Gas Mixture		Initial Horiba Reading			Post Cal. Horiba Readings			Flow through readings		
	C3H8(ppm) <sup>1</sup>	% O2 <sup>1</sup>	HC(ppm)	% CO2	% O2	HC(ppm)	% CO2	% O2*	HC(ppm)	% CO2	% O2
10/5/20	1620	20.80	849	12.88	20.84	829	13.00	20.80	803	12.64	20.95
0950	"	"	834	13.16	21.04	829	13.00	20.81	821	12.86	21.16
1251	"	"	824	13.00	21.16	829	13.00	20.80	819	12.94	21.08
0730	"	"	826	12.98	20.73	827	13.00	20.80	830	12.98	21.03
1151	"	"	←	←	←	TEST	←	←	830	13.06	20.94
1424	"	"	←	←	←	TEST	←	←	809	12.88	21.16
1123	"	"	836	12.94	21.48	827	12.99	20.80	823	12.94	21.87
1228	"	"	←	←	←	TEST	←	←	828	13.18	21.14
1336	"	"	830	12.94	20.95	828	13.00	20.80	809	12.84	21.05
1400	"	"	←	←	←	TEST	←	←	811	12.94	21.07
0715	"	"	825	13.08	21.12	828	13.00	20.80	813	12.78	21.55
1009	"	"	←	←	←	TEST	←	←	813	12.88	21.01
1349	"	"	←	←	←	TEST	←	←	←	←	←
10/13/20	"	"	832	12.94	21.16	829	13.00	20.80	807	12.78	21.27
1128	"	"	←	←	←	TEST	←	←	802	12.84	20.60
1250	"	"	835	13.10	21.10	829	12.98	20.80	808	12.79	20.77
1333	"	"	←	←	←	TEST	←	←	811	12.86	21.06
0716	"	"	823	12.90	20.16	829	12.98	20.80	814	12.86	21.21
1016	"	"	←	←	←	TEST	←	←	812	12.80	20.98
1045	"	"	832	13.08	21.00	829	12.98	20.80	817	12.84	21.38
1420	"	"	←	←	←	TEST	←	←	819	12.88	20.88
10/20/20	"	"	10/20/2020								

1 = Certified concentration of Cal. Gas

\* = Atmospheric %O2 concentrations

1620 = 829











Rae Systems MiniRAE 3000 PID Log

Serial # ~~592-915579~~ (WH0006) SN

Year: ~~2010~~ SN 2020

Project: Kirtland AFB BFF ST-106/SS-111

Quarter: ~~3rd~~ SN 4th

Date	Cal or Bump	0 ppm	100 ppm	Initials
Calibration Tolerances:		+/- 3% of standard value		N/A
10/5/2020	Cal <sup>Gas Mix</sup> (100 ppm)	0 ppm	100 ppm	SN
10/6/2020	"	0 ppm	100 ppm	SN
10/7/2020	"	0 ppm	100 ppm	SN
10/12/2020	"	0 ppm	100 ppm	SN
10/13/2020	"	0 ppm	100 ppm	SN
10/19/2020	"	0 ppm	100 ppm	SN
10/20/2020	"	0 ppm	100 ppm	SN
<div style="position: relative; height: 100px;"> <span style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;">                     SN 10/20/2020                 </span> </div>				

\* Calibrate all parameters weekly. Bump check all parameters daily and re-calibrate if values are out of tolerance.



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #:

**COC-SV204-01**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. 12005738

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				<b>Analysis Method</b>			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682							
Sampler (Print & Sign) <i>Stephen Newman</i>											
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
SV028-150-204	<u>1</u>	10/5/2020	1348	1SC01291	NA	-24.0	-0.5	1L	X	None	
SV028-250-204	<u>2</u>	10/5/2020	1351	1SS00748	NA	-24.0	-1.0	1L	X	None	
SV028-350-204	<u>3</u>	10/5/2020	1354	1SC01004	NA	-23.5	-1.0	1L	X	None	
SV028-450-204	<u>4</u>	10/5/2020	1357	1SS00755	NA	-23.5	-1.0	1L	X	None	
SV124-025-204	<u>5</u>	10/5/2020	0840	1SS00135	NA	-25.0	-1.0	1L	X	None	
SV124-050-204	<u>6</u>	10/5/2020	0843	1SC01180	NA	-25.0	-4.0	1L	X	None	
SV124-150-204	<u>7</u>	10/5/2020	0846	1SC00517	NA	-25.0	-0.5	1L	X	None	
SV124-250-204	<u>8</u>	10/5/2020	0849	1SS00205	NA	-25.0	-1.5	1L	X	None	
SV124-250-604	<u>9</u>	10/5/2020	0849	1SS00894	NA	-24.5	-2.5	1L	X	None	
SV124-350-204	<u>10</u>	10/5/2020	0852	1SS00044	NA	-25.0	-4.5	1L	X	None	
FedEX Tracking Number: <u>1028 3402 2180</u>				Associated with Trip blank: SVTB204-01							
Shipping information: Box number <u>1</u> of <u>6</u>											
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier II (Results + QC Summaries) _____ Tier IV (Data Validation Package) <u>X</u>				EDD required: <b>Yes</b> Type: <u>ERPIMS / EQUIS</u>				Chain of Custody Seal: (Circle) <b>INTACT</b> BROKEN ABSENT		Project Requirements: QAPP	
Relinquished by: (Signature) <i>[Signature]</i>		Date: <u>10/17/20</u>	Time: <u>1500</u>	Received by: (Signature) <i>[Signature]</i>		Date:	Time:				
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature) <i>[Signature]</i>		Date: <u>10-12-20</u>	Time: <u>1100</u>	Cooler / Blank Temperature <u>NA</u> °C			



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #:	<b>COC-SV204-02</b>
--------	---------------------

Requested Turnaround Time in Business Days 10 Day-Standard	ALS Project No. <u>2005738</u>
---	-----------------------------------

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility					ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02					<b>Analysis Method</b>			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682					Sampler (Print & Sign) <i>Stephen Newman</i>			
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume				
SV124-450-204	11	10/5/2020	0855	1SS01026	NA	-26.0	-2.0	1L	X	None		
SV125-025-204	12	10/5/2020	1112	1SC01105	NA	-24.5	-1.0	1L	X	None		
SV125-050-204	13	10/5/2020	1115	1SC00989	NA	-25.0	-1.5	1L	X	None		
SV125-150-204	14	10/5/2020	1118	1SS00971	NA	-24.5	-2.0	1L	X	None		
SV125-250-204	15	10/5/2020	1120	1SS00130	NA	-26.0	-1.5	1L	X	None		
SV125-350-204	16	10/5/2020	1123	1SC00020	NA	-24.5	-1.5	1L	X	None		
SV125-450-204	17	10/5/2020	1131	1SC00364	NA	-27.5	-2.0	1L	X	None		
SV127-025-204	18	10/5/2020	1019	1SC00218	NA	-26.0	-2.0	1L	X	None		
SV127-050-204	19	10/5/2020	1024	1SS00993	NA	-24.5	-0.5	1L	X	None		
SV127-150-204	20	10/5/2020	1026	1SC00576	NA	-25.0	-1.0	1L	X	None		
									X			
FedEX Tracking Number: <u>1028 3402 2180</u>					Associated with Trip blank: SVTB204-01							
Shipping information: Box number <u>1</u> of <u>6</u>												
<b>Report Tier Levels - please select</b>												
Tier I - Results (Default if not specified) <input type="checkbox"/>				Tier III (Results + QC & Calibration Summaries) <input type="checkbox"/>				EDD required: <b>Yes</b>			Chain of Custody Seal: (Circle) INTACT    BROKEN    ABSENT	
Tier II (Results + QC Summaries) <input type="checkbox"/>				Tier IV (Data Validation Package) <input checked="" type="checkbox"/>				Type: <u>ERPIMS / EQUIS</u>				
Relinquished by: (Signature) <i>[Signature]</i>			Date: <u>10/1/20</u>	Time: <u>1500</u>		Received by: (Signature) <i>[Signature]</i>			Date:	Time:	Project Requirements: QAPP  Cooler / Blank Temperature <u>NA</u> °C	
Relinquished by: (Signature)			Date:	Time:		Received by: (Signature) <i>[Signature]</i>			Date: <u>10-12-20</u>	Time: <u>1100</u>		



**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #:

**COC-SV204-03**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
R2005742

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				<b>Analysis Method</b>			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pomoss@eaest.com">pomoss@eaest.com</a>				P.O. # / Billing Information 17682							
				Sampler (Print & Sign) <i>Stephen Newman</i>							
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
SV127-250-604	1	10/5/2020	1030	1SC00415	NA	-28.0	-2.0	1L	X	None	
SV127-250-204	2	10/5/2020	1030	1SC00255	NA	-25.0	-2.0	1L	X	None	
SV127-350-204	3	10/5/2020	1034	1SC00287	NA	-25.0	-1.0	1L	X	None	
SV127-450-204	4	10/5/2020	1043	1SS00254	NA	-25.5	-1.5	1L	X	None	
SV142-030-204	5	10/5/2020	1243	1SC00342	NA	-26.0	-3.0	1L	X	None	
SV142-050-204	6	10/5/2020	1246	1SS00163	NA	-24.5	-1.0	1L	X	None	
SV142-170-204	7	10/5/2020	1249	1SC00771	NA	-25.5	-2.0	1L	X	None	
SV142-170-604	8	10/5/2020	1249	1SS00783	NA	-24.0	-0.5	1L	X	None	
SV142-250-204	9	10/5/2020	1256	1SC00521	NA	-23.0	-0.5	1L	X	None	
SV142-350-204	10	10/5/2020	1259	1SC01243	NA	-25.5	-1.0	1L	X	None	
FedEX Tracking Number: <u>1028 3402 2191</u>				Associated with Trip blank: SVTB204-01							
Shipping information: Box number <u>2</u> of <u>6</u>											
<b>Report Tier Levels - please select</b> Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <u>X</u>				EDD required: <b>Yes</b> Type: <u>ERPIMS / EQUIS</u>			Chain of Custody Seal: (Circle) INTACT <input checked="" type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>		Project Requirements: QAPP		
Relinquished by: (Signature) <i>[Signature]</i>		Date: <u>10/17/20</u>	Time: <u>1500</u>	Received by: (Signature) <i>[Signature]</i>		Date: <u>10-12-20</u>	Time: <u>1100</u>				
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	Cooler / Blank Temperature <u>NA</u> °C			



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #:

**COC-SV204-04**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
*PR805742*

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility					ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
				Project Number 62735DM02					<b>Analysis Method</b>			
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				P.O. # / Billing Information 17682								
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				Sampler (Print & Sign) <i>Stephen Newman</i>								
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure *Hg	Canister End Pressure *Hg/psig	Sample Volume				
SV142-450-204	11	10/5/2020	1307	1SC00930	NA	-24.0	-1.0	1L	X	None		
SVE06-060-204	12	10/5/2020	1018	1SS00018	AVG04729	-26.0	-3.5	1L	X	None		
SVE06-060-604	13	10/5/2020	1018	1SS00108	NA	-24.5	-4.0	1L	X	None		
SVE07-160-204	14	10/7/2020	1159	1SC01128	AVG05100	-24.5	-2.0	1L	X	None		
SVE08-260-204	15	10/7/2020	1349	1SC00276	NA	-24.0	-2.0	1L	X	None		
SVE09-460-204	16	10/5/2020	1039	1SC00918	NA	-25.0	-3.5	1L	X	None		
SV03-050-204	17	10/5/2020	1315	1SC00193	NA	-27.0	-1.5	1L	X	None		
SV03-100-204	18	10/5/2020	1320	1SC01241	NA	-23.0	-4.5	1L	X	None		
SV03-250-204	19	10/5/2020	1326	1SS01053	NA	-28.0	-5.0	1L	X	None		
SV03-300-204	20	10/5/2020	1332	1SS00496	NA	-24.0	-5.0	1L	X	None		
FedEX Tracking Number: <i>1028 3402 2191</i>				Associated with Trip blank: SVTB204-01								
Shipping Information: Box number <i>2</i> of <i>6</i>												
<b>Report Tier Levels - please select</b>				Tier I - Results (Default if not specified) _____			Tier III (Results + QC & Calibration Summaries) _____			EDD required: <b>Yes</b>		
				Tier II (Results + QC Summaries) _____			Tier IV (Data Validation Package) <b>X</b>			Type: <u>ERPIMS / EQUIS</u>		
Relinquished by: (Signature) <i>[Signature]</i>				Date: <i>10/7/20</i>	Time: <i>1500</i>	Received by: (Signature) <i>[Signature]</i>			Chain of Custody Seal: (Circle) <b>INTACT</b> BROKEN ABSENT			
Relinquished by: (Signature)				Date:	Time:	Received by: (Signature)			Date: <i>10-12-20</i>	Time: <i>1100</i>		
										Project Requirements: QAPP		
										Cooler / Blank Temperature <u>NA</u> °C		



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
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COC #:

**COC-SV204-05**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
12005743

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility					ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
									Project Number 62735DM02			
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				P.O. # / Billing Information 17682								
Email Address for Result Reporting Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				Sampler (Print & Sign) <i>Stephen Newman</i>								
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume				
SV04-050-604	1	10/5/2020	1407	1SS00037	NA	-27.0	-4.0	1L	X	None		
SV04-050-204	2	10/5/2020	1407	1SC00581	NA	-26.5	0.0	1L	X	None		
SV04-100-204	3	10/5/2020	1414	1SC00050	NA	-26.5	0.0	1L	X	None		
SV04-250-204	4	10/5/2020	1420	1SS00839	NA	-27.5	-1.0	1L	X	None		
SV04-300-204	5	10/5/2020	1429	1SC00192	NA	-28.9	-3.0	1L	X	None		
SV08-050-204	6	10/5/2020	1114	1SC00621	NA	-26.5	-2.0	1L	X	None		
SV08-100-204	7	10/5/2020	1118	1SC00775	NA	-24.0	-4.5	1L	X	None		
SV08-250-204	8	10/5/2020	1126	1SS00871	NA	-25.5	-3.5	1L	X	None		
SV09-050-204	9	10/5/2020	1456	1SC01248	NA	-26.5	-3.0	1L	X	None		
FedEX Tracking Number: <u>1028 3402 2206</u>				Associated with Trip blank: SVTB204-01								
Shipping information: Box number <u>3</u> of <u>6</u>												
<b>Report Tier Levels - please select</b>				EDD required: <b>Yes</b>			Chain of Custody Seal: (Circle)		Project Requirements: QAPP			
Tier I - Results (Default if not specified) _____				Tier III (Results + QC & Calibration Summaries) _____			INTACT		BROKEN			
Tier II (Results + QC Summaries) _____				Tier IV (Data Validation Package) <u>X</u>			ABSENT		Project Requirements: QAPP			
Relinquished by: (Signature) <i>[Signature]</i>		Date: <u>10/7/20</u>	Time: <u>1500</u>	Received by: (Signature) <i>[Signature]</i>			Date:	Time:	Cooler / Blank Temperature <u>NA</u> °C			
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)			Date: <u>10-12-20</u>	Time: <u>1100</u>				



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
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 Phone (805) 526-7161  
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<b>COC #:</b>	<b>COC-SV204-06</b>
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<b>Requested Turnaround Time in Business Days</b> 10 Day-Standard	<b>ALS Project No.</b> <u>2005743</u>
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Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility					ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions		
									Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02	
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				Sampler (Print & Sign) 										
									Client Sample ID	Laboratory ID Number			Date Collected	Time Collected
SV09-100-204	10	10/5/2020	1501	1SS00011	NA	-25.0	-0.5	1L	X	None				
SV09-250-204	11	10/5/2020	1508	1SS00233	NA	-23.0	-2.0	1L	X	None				
SV09-266-204	12	10/5/2020	1513	1SC00491	NA	-25.5	-1.0	1L	X	None				
SV111-025-204	13	10/6/2020	1140	1SC01294	NA	-25.0	-2.0	1L	X	None				
SV111-050-204	14	10/6/2020	1143	1SS00012	NA	-26.0	-2.0	1L	X	None				
SV111-050-604	15	10/6/2020	1143	1SC01034	NA	-27.0	-2.0	1L	X	None				
SV111-150-204	16	10/6/2020	1148	1SC00084	NA	-25.5	-3.0	1L	X	None				
SV111-250-204	17	10/6/2020	1152	1SS00186	NA	-25.0	-5.0	1L	X	None				
SV111-350-204	18	10/6/2020	1155	1SC00069	NA	-26.0	-2.0	1L	X	None				
SV111-450-204	19	10/6/2020	1204	1SC00931	NA	-26.5	-3.0	1L	X	None				

FedEX Tracking Number: <u>1028 3402 2206</u>	Associated with Trip blank: SVTB204-01
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Shipping information: Box number <u>3</u> of <u>4</u>	
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<b>Report Tier Levels - please select</b>				EDD required: <b>Yes</b> Type: <u>ERPIMS / EQUIS</u>		Chain of Custody Seal: (Circle) INTACT <input checked="" type="radio"/> BROKEN <input type="radio"/> ABSENT <input type="radio"/>		Project Requirements: QAPP	
Tier I - Results (Default if not specified) _____		Tier III (Results + QC & Calibration Summaries) _____							
Tier II (Results + QC Summaries) _____		Tier IV (Data Validation Package) <u>X</u>							

Relinquished by: (Signature) 	Date: <u>10/7/20</u>	Time: <u>1500</u>	Received by: (Signature) 	Date: <u>10-12-20</u>	Time: <u>1100</u>	Cooler / Blank Temperature <u>NA</u> °C
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### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #:	<b>COC-SV204-07</b>
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Requested Turnaround Time in Business Days 10 Day-Standard	ALS Project No. <b>2005744</b>
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Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility					ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	<b>Comments</b> e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02					<b>Analysis Method</b>			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682					Sampler (Print & Sign) <i>Stephen Newman</i>			
Client Sample ID				Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)				
SV114-025-204	1	10/6/2020	1247	1SC00317	NA	-25.0	-2.0	1L	X	None		
SV114-050-204	2	10/6/2020	1250	1SC00176	NA	-25.0	0.0	1L	X	None		
SV114-150-204	3	10/6/2020	1253	1SC00247	NA	-27.0	-2.0	1L	X	None		
SV114-250-604	4	10/6/2020	1257	1SC00877	NA	-27.5	-0.0	1L	X	None		
SV114-250-204	5	10/6/2020	1257	1SS01050	NA	-27.0	-2.0	1L	X	None		
SV114-350-204	6	10/6/2020	1301	1SS00075	NA	-25.0	-4.5	1L	X	None		
SV114-450-204	7	10/6/2020	1310	1SC01103	NA	-25.0	-0.5	1L	X	None		
SV116-025-204	8	10/6/2020	0819	1SS00946	NA	-25.5	-5.0	1L	X	None		
SV116-050-204	9	10/6/2020	0823	1SS00053	NA	-27.0	-3.5	1L	X	None		
SV116-150-204	10	10/6/2020	0825	1SC00726	NA	-25.5	-2.0	1L	X	None		

FedEX Tracking Number: <b>1028 3402 2217</b>	Associated with Trip blank: SVTB204-01
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Shipping information: Box number <b>4</b> of <b>6</b>	
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<b>Report Tier Levels - please select</b>				EDD required: <b>Yes</b> Type: <u>ERPIMS / EQUIS</u>		Chain of Custody Seal: (Circle) <b>INTACT</b> BROKEN    ABSENT		Project Requirements: QAPP	
Tier I - Results (Default if not specified) _____		Tier III (Results + QC & Calibration Summaries) _____							
Tier II (Results + QC Summaries) _____		Tier IV (Data Validation Package) <u>X</u>							

Relinquished by: (Signature) <i>[Signature]</i>	Date: <b>10/7/20</b>	Time: <b>1500</b>	Received by: (Signature) <i>[Signature]</i>	Date: <b>10-12-20</b>	Time: <b>1106</b>	Cooler / Blank Temperature <u>NA</u> °C
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	



**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
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COC #: **COC-SV204-08**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **P2005744**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				Analysis Method			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682							
				Sampler (Print & Sign) <i>Stephen Newman</i>							
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure *Hg	Canister End Pressure *Hg/psig	Sample Volume			
SV116-250-204	11	10/6/2020	0829	1SS01002	NA	-25.0	-5.0	1L	X	None	
SV116-350-204	12	10/6/2020	0832	1SS00885	NA	-25.0	-4.0	1L	X	None	
SV116-350-604	13	10/6/2020	0832	1SS00895	NA	-26.0	-4.5	1L	X	None	
SV116-450-204	14	10/6/2020	0842	1SS00968	NA	-25.0	-1.0	1L	X	None	
SV117-025-204	15	10/6/2020	0909	1SC00502	NA	-26.0	-1.0	1L	X	None	
SV117-050-204	16	10/6/2020	0911	1SS00259	NA	-25.0	-3.0	1L	X	None	
SV117-150-204	17	10/6/2020	0916	1SS01011	NA	-27.5	-4.0	1L	X	None	
SV117-250-204	18	10/6/2020	0920	1SS01052	NA	-25.0	-0.5	1L	X	None	
SV117-350-204	19	10/6/2020	0923	1SC00570	NA	-22.5	0.0	1L	X	None	
SV117-450-204	20	10/6/2020	0934	1SC01055	NA	-25.0	-2.5	1L	X	None	
FedEX Tracking Number: <b>1028 3402 2217</b>				Associated with Trip blank: SVTB204-01							
Shipping information: Box number <b>4</b> of <b>6</b>											
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier II (Results + QC Summaries) _____ Tier IV (Data Validation Package) <u>X</u> _____				EDD required: <b>Yes</b> Type: <u>ERPIMS / EQUIS</u>			Chain of Custody Seal: (Circle) <b>INTACT</b> BROKEN ABSENT		Project Requirements: QAPP		
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>10/7/20</b>	Time: <b>1500</b>	Received by: (Signature) <i>[Signature]</i>		Date:	Time:				
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature) <i>[Signature]</i>		Date: <b>10/12-20</b>	Time: <b>1100</b>	Cooler / Blank Temperature <u>NA</u> °C			



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
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COC #:

**COC-SV204-09**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
11005748

Company Name & Address (Reporting Information)  EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name  Kirtland AFB Bulk Fuels Facility					ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
									Analysis Method			
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02					P.O. # / Billing Information 17682			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				Sampler (Print & Sign) 								
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume				
SV128-025-204	1	10/6/2020	1341	1SS00851	NA	-26.0	-3.5	1L	X	None		
SV128-050-204	2	10/6/2020	1345	1SS00096	NA	-27.0	-2.0	1L	X	None		
SV128-150-204	3	10/6/2020	1347	1SC00712	NA	-29.5	-3.0	1L	X	None		
SV128-250-204	4	10/6/2020	1352	1SC01189	NA	-27.5	-2.5	1L	X	None		
SV128-350-204	5	10/6/2020	1357	1SC00232	NA	-27.0	-2.0	1L	X	None		
SV128-450-204	6	10/6/2020	1410	1SC00862	NA	-24.0	-0.5	1L	X	None		
SV133-025-204	7	10/6/2020	1045	1SC00133	NA	-25.0	-2.0	1L	X	None		
SV133-050-204	8	10/6/2020	1049	1SC00608	NA	-24.0	-1.0	1L	X	None		
SV133-170-204	9	10/6/2020	1052	1SC00417	NA	-25.0	-1.0	1L	X	None		
SV133-250-204	10	10/6/2020	1055	1SS00491	NA	-25.0	-1.5	1L	X	None		
FedEX Tracking Number: <u>1028 3402 2261</u>				Associated with Trip blank: SVTB204-01								
Shipping information: Box number <u>15</u> of <u>6</u>												
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>				EDD required: Yes Type: <u>ERPIMS / EQUIS</u>			Chain of Custody Seal: (Circle) <del>INTACT</del> BROKEN ABSENT		Project Requirements: QAPP			
Relinquished by: (Signature)		Date: <u>10/17/20</u>	Time: <u>1500</u>	Received by: (Signature)			Date: <u>10/17/20</u>	Time: <u>1100</u>	Cooler / Blank Temperature <u>NA</u> °C			



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #:

**COC-SV204-10**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
 11005748

Company Name & Address (Reporting Information)  <b>EA Engineering, Science, and Technology, Inc., PBC</b> 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name  Kirtland AFB Bulk Fuels Facility					ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
									Project Number  62735DM02			
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				P.O. # / Billing Information  17682								
Email Address for Result Reporting Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				Sampler (Print & Sign) <i>Stephen Newman</i>								
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume				
SV133-250-6C4	11	10/6/2020	1055	1SC01266	NA	-25.0	-2.0	1L	X	None		
SV133-350-204	12	10/6/2020	1059	1SC00781	NA	-26.0	-3.0	1L	X	None		
SV133-450-204	13	10/6/2020	1108	1SS00230	NA	-26.0	-3.0	1L	X	None		
SV136-025-204	14	10/6/2020	1102	1SC00870	NA	-24.5	0.0	1L	X	None		
SV136-050-204	15	10/6/2020	1105	1SC00440	NA	-23.5	0.0	1L	X	None		
SV136-150-204	16	10/6/2020	1109	1SS00716	NA	-26.5	-4.0	1L	X	None		
SV136-250-204	17	10/6/2020	1112	1SS00941	AVG03294	-27.0	-2.0	1L	X	None		
SV136-350-204	18	10/6/2020	1116	1SC01369	AVG04740	-27.0	-1.0	1L	X	None		
SV136-450-204	19	10/6/2020	1125	1SS00058	NA	-26.5	-1.0	1L	X	None		
SV138-025-204	20	10/6/2020	0924	1SS00991	NA	-26.0	-2.0	1L	X	None		
SVTB204-01	21	10/7/2020	1400	1SC00125	NA	-23.0	-23.0	1L	X	None		
FedEx Tracking Number: <u>1028 3402 2261</u>					Associated with Trip blank: SVTB204-01							
Shipping Information: Box number <u>5</u> of <u>6</u>												
<b>Report Tier Levels - please select</b>												
Tier I - Results (Default if not specified) _____			Tier III (Results + QC & Calibration Summaries) _____			EDD required: <b>Yes</b> Type: <u>ERPIMS / EQUIS</u>			Chain of Custody Seal: (Circle) <u>INTACT</u> BROKEN    ABSENT			
Tier II (Results + QC Summaries) _____			Tier IV (Data Validation Package) <u>X</u>						Project Requirements: QAPP			
Relinquished by: (Signature) <i>[Signature]</i>		Date: <u>10/1/20</u>	Time: <u>1500</u>	Received by: (Signature) <i>[Signature]</i>		Date: <u>10/1/20</u>	Time: <u>1100</u>					
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	Cooler / Blank Temperature <u>NA</u> °C				



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### Air - Chain of Custody Record & Analytical Service Request

COC #: **COC-SV204-11**

Requested Turnaround Time in Business Days: 10 Day-Standard  
 ALS Project No: **P1005749**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TC-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions		
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				Analysis Method					
Email Address for Result Reporting Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682				Sampler (Print & Sign) <i>Stephen Newman</i>					
Client Sample ID				Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg			Canister End Pressure "Hg/psig	Sample Volume
SV138-050-204	1	10/6/2020	0928	1SC01057	NA	-25.0	-1.0	1L	X	None			
SV138-150-204	2	10/6/2020	0931	1SS00695	NA	-26.0	-1.5	1L	X	None			
SV138-150-604	3	10/6/2020	0931	1SC01159	NA	-26.0	-2.0	1L	X	None			
SV138-250-204	4	10/6/2020	0936	1SC00857	NA	-24.5	0.0	1L	X	None			
SV138-350-204	5	10/6/2020	0940	1SS00194	NA	-25.5	-2.5	1L	X	None			
SV138-450-204	6	10/6/2020	0954	1SS00544	NA	-26.5	-1.5	1L	X	None			
SV141-025-204	7	10/6/2020	0822	1SS00165	NA	-28.0	-1.0	1L	X	None			
SV141-050-204	8	10/6/2020	0828	1SC00319	NA	-26.0	0.0	1L	X	None			
SV141-170-204	9	10/6/2020	0833	1SC00694	NA	-25.0	0.0	1L	X	None			
SV141-250-204	10	10/6/2020	0837	1SC00926	AVG05073	-22.0	-3.0	1L	X	None			
SV141-350-204	11	10/6/2020	0840	1SS00955	NA	-27.0	-5.0	1L	X	None			
SV141-450-204	12	10/6/2020	0848	1SC01104	NA	-25.5	-2.5	1L	X	None			
FedEX Tracking Number: <b>1028 3402 2250</b>				Associated with Trip blank: SVTB204-01									
Shipping information: Box number <b>6 of 4</b>													
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>				EDD required: <b>Yes</b> Type: <b>ERPIMS / EQUIS</b>				Chain of Custody Seal: (Circle) <b>INTACT</b> BROKEN ABSENT		Project Requirements: QAPP			
Relinquished by: (Signature) <i>[Signature]</i>				Date: <b>10/7/20</b>		Time: <b>1500</b>		Received by: (Signature) <i>[Signature]</i>		Date: <b>10-11-20</b>		Time: <b>1100</b>	
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)		Date:		Time:	
										Cooler / Blank Temperature <b>NA</b> °C			



**Air - Chain of Custody Record & Analytical Service Request**

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 Fax (805) 526-7270

COC #: **COC-SV204-01**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No: **P1005893**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				Analysis Method			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682							
Sampler (Print & Sign)											
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
SV109-025-204	1	10/13/2020	0908	1SC01043	NA	-26.0	-1.0	1L	X	None	
SV109-050-204	2	10/13/2020	0912	1SC00481	NA	-24.0	-2.0	1L	X	None	
SV109-150-204	3	10/13/2020	0915	1SS00584	NA	-25.0	-3.0	1L	X	None	
SV109-250-204	4	10/13/2020	0918	1SS00761	NA	-27.0	-3.0	1L	X	None	
SV109-350-204	5	10/13/2020	0922	1SS00893	NA	-25.0	-4.0	1L	X	None	
SV109-450-204	6	10/13/2020	0932	1SC00471	NA	-24.5	-4.0	1L	X	None	
SV109-450-804	7	10/13/2020	0932	1SC00562	NA	-25.0	-2.0	1L	X	None	
SV110-025-204	8	10/13/2020	0807	1SC00875	NA	-24.0	-1.0	1L	X	None	
SV110-050-204	9	10/13/2020	0810	1SC00313	NA	-25.0	-4.0	1L	X	None	
SV110-150-204	10	10/13/2020	0813	1SS01039	NA	-24.0	-1.5	1L	X	None	
FedEX Tracking Number: <b>1028 3402 4286 4334</b>				Associated with Trip blank: SVTB204-02							
Shipping information: Box number 1 of 6											
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + GC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>				EDD required: Yes Type: <u>ERPIMS / EQUIS</u>			Chain of Custody Seal: (Circle) <input checked="" type="radio"/> INTACT <input type="radio"/> BROKEN <input type="radio"/> ABSENT		Project Requirements: QAPP		
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>10/14/20</b>	Time: <b>1000</b>	Received by: (Signature) <i>[Signature]</i>			Date: <b>10/19/20</b>	Time: <b>930</b>	Cooler / Blank Temperature <u>NA</u> °C		



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
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COC #:

**COC-SV204-02**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **1005893**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
								Project Number 62735DM02			
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				P.O. # / Billing Information 17682							
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				Sampler (Print & Sign)							
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
SV110-250-204	11	10/13/2020	0817	1SC00566	NA	-24.0	-2.0	1L	X		
SV110-250-604	12	10/13/2020	0817	1SC00886	NA	-23.5	0.0	1L	X		
SV110-350-204	13	10/13/2020	0829	1SC01271	NA	-24.0	-2.0	1L	X		
SV110-450-204	14	10/13/2020	0838	1SC01276	NA	-24.5	-1.0	1L	X		
SV113-020-204	15	10/13/2020	0804	1SS00152	NA	-25.0	-2.0	1L	X		
SV113-050-204	16	10/13/2020	0809	1SC01187	NA	-25.5	-3.5	1L	X		
SV113-150-204	17	10/13/2020	0812	1SS00536	NA	-26.0	-2.0	1L	X		
SV113-250-204	18	10/13/2020	0815	1SC00698	NA	-27.0	-2.5	1L	X		
SV113-350-204	19	10/13/2020	0819	1SS00517	NA	-26.5	-5.0	1L	X		
SV113-450-204	20	10/13/2020	0829	1SC00610	NA	-25.5	-2.0	1L	X		
									X		
FedEx Tracking Number: <b>1028 3402 4386 4334</b>				Associated with Trip blank: SVTB204-02							
Shipping information: Box number 1 of 6											
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>				EDD required: Yes Type: <u>ERPIMS/EQUIS</u>		Chain of Custody Seal: (Circle) INTACT <input checked="" type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>		Project Requirements: QAPP			
Relinquished by: (Signature) <i>[Signature]</i>		Date: <u>10/14/20</u>	Time: <u>1000</u>	Received by: (Signature) <i>[Signature]</i>		Date: <u>10/14/20</u>	Time: <u>0930</u>	Cooler / Blank Temperature NA °C			



### Air - Chain of Custody Record & Analytical Service Request

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 Simi Valley, California 93065  
 Phone (805) 526-7181  
 Fax (805) 526-7270

COC #: **COC-SV204-03**

Requested Turnaround Time in Business Days: **10 Day-Standard**  
 ALS Project No. **P2005894**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				Analysis Method			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682							
Sampler (Print & Sign)											

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume		
SV115-025-604	1	10/13/2020	0905	1SC01234	NA	-25.0	-4.0	1L	X	None
SV115-025-204	2	10/13/2020	0905	1SS00092	NA	-25.0	-2.5	1L	X	None
SV115-050-204	3	10/13/2020	0909	1SC00935	NA	-24.5	0.0	1L	X	None
SV115-150-204	4	10/13/2020	0912	1SS00039	AVG04536	-25.5	-4.5	1L	X	None
SV115-250-204	5	10/13/2020	0916	1SS00764	NA	-25.0	-4.0	1L	X	None
SV115-350-204	6	10/13/2020	0920	1SC01027	NA	-25.0	-3.0	1L	X	None
SV115-450-204	7	10/13/2020	0931	1SC00158	NA	-25.0	-2.0	1L	X	None
SV120-025-204	8	10/12/2020	0909	1SS00074	NA	-28.0	-3.5	1L	X	None
SV120-025-604	9	10/12/2020	0909	1SS00257	NA	-26.5	-1.5	1L	X	None
SV120-050-204	10	10/12/2020	0927	1SS00534	NA	-27.5	-3.0	1L	X	None

FedEX Tracking Number: **1028 3402 4297** Associated with Trip blank: SVTB204-02

Shipping information: Box number **2 of 6**

Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/> X				EDD required: Yes Type: <u>ERPIMS / EQUIS</u>		Chain of Custody Seal: (Circle) <b>INTACT</b> BROKEN ABSENT		Project Requirements: QAPP	
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>10/14/20</b>	Time: <b>1000</b>	Received by: (Signature) <i>[Signature]</i>		Date: <b>10/14/20</b>	Time: <b>1430</b>		
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	Cooler / Blank Temperature NA °C	



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
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 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-04**

Requested Turnaround Time in Business Days: 10 Day-Standard  
 ALS Project No: **1005894**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name <b>Kirtland AFB Bulk Fuels Facility</b>				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
				Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number <b>62735DM02</b>			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information <b>17682</b>							
				Sampler (Print & Sign)							

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume		
SV120-150-204	11	10/12/2020	0930	1SC00959	NA	-25.5	0.0	1L	X	None
SV120-250-204	12	10/12/2020	0933	1SC01370	NA	-28.0	-3.0	1L	X	None
SV120-350-204	13	10/12/2020	0937	1SC00892	AVG04175	-27.0	-2.0	1L	X	None
SV120-450-204	14	10/12/2020	0946	1SS00070	NA	-26.0	-3.0	1L	X	None
SV121-025-204	15	10/12/2020	1044	1SC01194	AVG04639	-26.5	-1.5	1L	X	None
SV121-050-204	16	10/12/2020	1047	1SS00715	NA	-27.0	-2.0	1L	X	None
SV121-145-604	17	10/12/2020	1050	1SC01158	NA	-24.0	-1.0	1L	X	None
SV121-145-204	18	10/12/2020	1050	1SC00063	AVG04166	-27.0	-3.0	1L	X	None
SV121-250-204	19	10/12/2020	1055	1SC00929	AVG04906	-27.5	-2.0	1L	X	None
SV121-350-204	20	10/12/2020	1059	1SC00478	NA	-22.0	-1.0	1L	X	None

FedEX Tracking Number: **1028 3402 4297** Associated with Trip blank: SVTB204-02

Shipping Information: Box number **2** of **6**

Report Tier Levels - please select				EDD required: Yes		Chain of Custody Seal: (Circle)		Project Requirements: QAPP	
Tier I - Results (Default if not specified) _____		Tier III (Results + QC & Calibration Summaries) _____		Type: <u>ERPIMS / EQUIS</u>		<input checked="" type="radio"/> INTACT <input type="radio"/> BROKEN <input type="radio"/> ABSENT			
Tier II (Results + QC Summaries) _____		Tier IV (Data Validation Package) <input checked="" type="checkbox"/>		Received by: (Signature) <i>[Signature]</i>		Date: <u>10/19/20</u> Time: <u>9:30</u>		Cooler / Blank Temperature <u>NA</u> °C	
Relinquished by: (Signature) <i>[Signature]</i>		Date: <u>10/14/20</u> Time: <u>1000</u>		Received by: (Signature) <i>[Signature]</i>		Date: _____ Time: _____			



### Air - Chain of Custody Record & Analytical Service Request

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COC #: **COC-SV204-05**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
**11005895**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
				Kirtland AFB Bulk Fuels Facility				Analysis Method			
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number							
Email Address for Result Reporting				P.O. # / Billing Information							
Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				17682				Sampler (Print & Sign)			

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume		
SV121-450-204	1	10/12/2020	1107	1SS00503	NA	-24.0	-5.0	1L	X	None
SV122-025-204	2	10/12/2020	0815	1SS01018	NA	-25.0	-5.0	1L	X	None
SV122-050-204	3	10/12/2020	0819	1SC00894	NA	-27.5	-1.5	1L	X	None
SV122-150-204	4	10/12/2020	0822	1SS00973	NA	-24.5	-1.5	1L	X	None
SV122-250-204	5	10/12/2020	0826	1SC00536	NA	-25.0	-1.0	1L	X	None
SV122-350-204	6	10/12/2020	0829	1SS00782	NA	-26.0	-2.5	1L	X	None
SV122-450-204	7	10/12/2020	0838	1SC00446	NA	-26.5	-2.0	1L	X	None
SV123-025-204	8	10/12/2020	1145	1SC00015	AVG05087	-26.5	-1.0	1L	X	None
SV123-050-204	9	10/12/2020	1149	1SC01068	NA	-27.0	-1.5	1L	X	None
SV123-150-204	10	10/12/2020	1152	1SC01359	NA	-26.5	-1.5	1L	X	None

FedEX Tracking Number: **1028 3402 4301** Associated with Trip blank: SVTB204-02

Shipping information: Box number **3** of **6**

Report Tier Levels - please select				EDD required: Yes		Chain of Custody Seal: (Circle) INTACT    BROKEN    ABSENT		Project Requirements: QAPP
Tier I - Results (Default if not specified) _____		Tier III (Results + QC & Calibration Summaries) _____		Type: ERPIMS / EQUIS				
Tier II (Results + QC Summaries) _____		Tier IV (Data Validation Package) <b>X</b>						
Relinquished by: (Signature)		Date: 10/14/20	Time: 1000	Received by: (Signature)		Date: 10/14/20	Time: 930	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	Cooler / Blank Temperature NA °C



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-06**

Requested Turnaround Time in Business Days: **10 Day-Standard**  
 ALS Project No. **2005895**

<b>Company Name &amp; Address (Reporting Information)</b> EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				<b>Project Name</b> Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	<b>Comments</b> e.g. Actual Preservative or specific instructions
								<b>Analysis Method</b>			
<b>Project Manager / Project Chemist</b> Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				<b>P.O. # / Billing Information</b> 17682							
<b>Email Address for Result Reporting</b> Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				<b>Sampler (Print &amp; Sign)</b>							
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
SV123-250-204	11	10/12/2020	1155	1SC01098	NA	-26.0	-2.0	1L	X		
SV123-350-204	12	10/12/2020	1158	1SS00720	NA	-25.0	-1.5	1L	X		
SV123-450-204	13	10/12/2020	1208	1SS00744	NA	-25.5	-2.5	1L	X		
SV132-025-204	14	10/12/2020	1214	1SS00183	NA	-26.0	-2.0	1L	X		
SV132-050-204	15	10/12/2020	1218	1SS00136	NA	-26.0	-4.0	1L	X		
SV132-175-204	16	10/12/2020	1221	1SS00546	NA	-25.0	-2.0	1L	X		
SV132-250-204	17	10/12/2020	1223	1SS00543	NA	-25.5	-2.5	1L	X		
SV132-350-204	18	10/12/2020	1227	1SS00593	NA	-29.0	-5.0	1L	X		
SV132-450-204	19	10/12/2020	1235	1SC01037	NA	-25.0	-1.5	1L	X		
SV134-025-204	20	10/12/2020	1312	1SS00932	NA	-20.5	-1.0	1L	X		
<b>FedEX Tracking Number:</b> 1028 3402 4301				Associated with Trip blank: SVTB204-02							
<b>Shipping Information:</b> Box number 3 of 6											
<b>Report Tier Levels - please select</b> Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>				EDD required: Yes Type: <u>ERPIMS / EQUIS</u>		Chain of Custody Seal: (Circle) INTACT <input checked="" type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>		Project Requirements: QAPP			
Relinquished by: (Signature) <i>[Signature]</i>		Date: 10/14/20	Time: 1000	Received by: (Signature) <i>[Signature]</i>		Date: 10/19/20	Time: 0930				
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	Cooler / Blank Temperature <u>NA</u> °C			



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-08**

Requested Turnaround Time in Business Days: **10 Day-Standard**  
 ALS Project No. **21005896**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
				Kirtland AFB Bulk Fuels Facility				Analysis Method			
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number							
Email Address for Result Reporting				P.O. # / Billing Information							
Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				Sampler (Print & Sign)							
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
SV135-250-204	11	10/12/2020	1056	1SS00999	NA	-25.5	-2.0	1L	X		
SV135-350-204	12	10/12/2020	1101	1SS00779	NA	-26.5	-0.5	1L	X		
SV135-450-204	13	10/12/2020	1109	1SC00173	NA	-25.0	-0.5	1L	X		
SV137-025-204	14	10/12/2020	0945	1SS00093	NA	-25.0	-2.0	1L	X		
SV137-050-204	15	10/12/2020	0948	1SS00091	NA	-24.5	-2.0	1L	X		
SV137-150-204	16	10/12/2020	0952	1SC01025	NA	-26.0	-0.5	1L	X		
SV137-250-204	17	10/12/2020	0956	1SS00767	NA	-23.0	-3.0	1L	X		
SV137-350-204	18	10/12/2020	1000	1SC00649	NA	-24.0	0.0	1L	X		
SV137-450-204	19	10/12/2020	1008	1SS00083	NA	-23.0	-5.0	1L	X		
SV139-025-204	20	10/12/2020	0841	1SC00337	NA	-25.0	0.0	1L	X		
FedEX Tracking Number: <b>1028 3402 4345</b>				Associated with Trip blank: SVTB204-02							
Shipping information: Box number <b>4</b> of <b>6</b>											
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>				EDD required: Yes		Chain of Custody Seal: (Circle)		Project Requirements: QAPP			
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>10/14/20</b>	Time: <b>1000</b>	Received by: (Signature) <i>[Signature]</i>		Date: <b>10/14/20</b>	Time: <b>1430</b>	Cooler / Blank Temperature <b>NA</b> °C			
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:				



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93085  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-07**

Requested Turnaround Time In Business Days  
 10 Day-Standard

ALS Project No. **99005896**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility					ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
				Project Number 62735DM02					Analysis Method			
Project Manager / Project Chemist Devon Jerclinovic (505) 715-4248 / Pam Moss (303) 590-9143				P.O. # / Billing Information 17682								
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				Sampler (Print & Sign)								
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume				
SV134-050-204	1	10/12/2020	1315	1SC00915	NA	-24.0	-1.0	1L	X	None		
SV134-170-204	2	10/12/2020	1318	1SS00525	NA	-26.0	-1.5	1L	X	None		
SV134-250-204	3	10/12/2020	1321	1SS00854	NA	-24.5	-5.0	1L	X	None		
SV134-350-204	4	10/12/2020	1325	1SS00121	NA	-24.5	0.0	1L	X	None		
SV134-350-604	5	10/12/2020	1325	1SC00036	NA	-24.5	-1.0	1L	X	None		
SV134-450-204	6	10/12/2020	1334	1SC00776	NA	-24.0	-2.0	1L	X	None		
SV135-025-204	7	10/12/2020	1046	1SS00055	NA	-26.0	0.0	1L	X	None		
SV135-050-204	8	10/12/2020	1050	1SS00841	NA	-25.0	-4.0	1L	X	None		
SV135-150-204	9	10/12/2020	1053	1SC00723	NA	-24.5	-1.0	1L	X	None		
SV135-250-604	10	10/12/2020	1056	1SS00128	NA	-23.0	-2.0	1L	X	None		
FedEX Tracking Number: <b>1028 3402 4345</b>				Associated with Trip blank: SVTB204-02								
Shipping information: Box number 4 of 6												
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/> X				EDD required: Yes Type: ERPIMS / EQUI5			Chain of Custody Seal: (Circle) IMPACT    BROKEN    ABSENT			Project Requirements: QAPP		
Relinquished by: (Signature) <i>[Signature]</i>		Date: 10/14/20	Time: 1000	Received by: (Signature) <i>[Signature]</i>			Date: 10/19/20	Time: 430	Cooler / Blank Temperature NA °C			
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)			Date:	Time:				



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 Fax (805) 526-7270

**Air - Chain of Custody Record & Analytical Service Request**

				<b>COC #:</b>		<b>COC-SV204-09</b>						
				<b>Requested Turnaround Time In Business Days</b> 10 Day-Standard				ALS Project No. <b>110065897</b>				
Company Name & Address (Reporting Information)  EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name  Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089			Analysis Method  TO-15 Project Specific List  Comments e.g. Actual Preservative or specific instructions	
								Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number  62735DM02
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				Sampler (Print & Sign)								
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume				
SV139-050-204	1	10/12/2020	0846	1SC00903	NA	-26.5	-6.0	1L	X	None		
SV139-050-604	2	10/12/2020	0846	1SC00477	NA	-25.0	-2.0	1L	X	None		
SV139-150-204	3	10/12/2020	0852	1SC00950	NA	-25.0	-5.0	1L	X	None		
SV139-250-204	4	10/12/2020	0857	1SS00743	NA	-26.0	-4.0	1L	X	None		
SV139-350-204	5	10/12/2020	0904	1SC00767	NA	-26.0	-3.0	1L	X	None		
SV139-450-204	6	10/12/2020	0913	1SC01383	NA	-25.0	-0.5	1L	X	None		
SV140-025-204	7	10/12/2020	1236	1SS00792	NA	-27.0	-2.0	1L	X	None		
SV140-050-204	8	10/12/2020	1239	1SC01023	NA	-22.5	-1.5	1L	X	None		
SV140-150-204	9	10/12/2020	1243	1SC00780	NA	-25.0	-1.5	1L	X	None		
SV140-250-204	10	10/12/2020	1246	1SS00956	NA	-25.0	-1.0	1L	X	None		
FedEX Tracking Number: <b>1028 3402 4312</b>				Associated with Trip blank: SVTB204-02								
Shipping information: Box number <b>5</b> of <b>8</b>												
<b>Report Tier Levels - please select</b>				Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>				EDD required: Yes Type: <u>ERPIMS / EQUIS</u>		Chain of Custody Seal: (Circle) <input checked="" type="radio"/> INTACT <input type="radio"/> BROKEN <input type="radio"/> ABSENT		Project Requirements: QAPP
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>10/14/20</b>	Time: <b>1000</b>	Received by: (Signature) <i>[Signature]</i>		Date: <b>10/14/20</b>	Time: <b>930</b>					
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	Cooler / Blank Temperature <b>NA</b> °C				



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 Simi Valley, California 93065  
 Phone (805) 528-7161  
 Fax (805) 526-7270

**Air - Chain of Custody Record & Analytical Service Request**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				COC #: COC-SV204-10		ALS Project No. 2005897		
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				Requested Turnaround Time in Business Days 10 Day-Standard		ALS Contact: Kate Kaneko 1 (805) 577-2089		
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682				Analysis Method		TO-15 Project Specific List		Comments e.g. Actual Preservative or specific instructions
Sampler (Print & Sign)				Canister ID (Bar code # - AC, SC, etc.)				Canister Start Pressure "Hg				
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume				
SV140-350-204	11	10/12/2020	1250	1SS00970	NA	-26.0	-1.0	1L	X	None		
SV140-450-604	12	10/12/2020	1259	1SC01342	NA	-26.0	-2.5	1L	X	None		
SV140-450-204	13	10/12/2020	1259	1SS00820	NA	-27.0	-1.5	1L	X	None		
SVE12-410-204	14	10/13/2020	1041	1SC00123	NA	-26.5	-4.0	1L	X	None		
SV07-050-204	15	10/13/2020	1320	1SC00439	NA	-24.5	-1.0	1L	X	None		
SV07-100-204	16	10/13/2020	1322	1SS00740	AVG04448	-25.0	-5.0	1L	X	None		
SV07-150-204	17	10/13/2020	1326	1SS00025	NA	-27.0	-5.0	1L	X	None		
SV14-150-204	18	10/13/2020	1026	1SS00260	NA	-25.0	-2.0	1L	X	None		
SV14-250-204	19	10/13/2020	1028	1SS00206	NA	-26.5	-5.0	1L	X	None		
SV14-350-204	20	10/13/2020	1032	1SC01047	NA	-25.0	-2.0	1L	X	None		
FedEX Tracking Number: 1028 3402 4512				Associated with Trip blank: SVTB204-02								
Shipping information: Box number 5 of 6												
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) _____ X				EDD required: Yes Type: ERPIMS / EQUIS				Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT		Project Requirements: QAPP		
Relinquished by: (Signature) <i>JNR</i>		Date: 10/14/20	Time: 1000	Received by: (Signature) <i>[Signature]</i>		Date: 10/14/20	Time: 130					
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	Cooler / Blank Temperature NA °C				





2655 Park Center Drive, Suite A  
 Simi Valley, California 93085  
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**Air - Chain of Custody Record & Analytical Service Request**

COC #: **COC-SV204-01**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **P2006066**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jarcinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				Analysis Method			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682							
				Sampler (Print & Sign) <i>Amy Rosebrough</i>							

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Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume		
SV108-025-204		10/19/2020	0828	1SS01029	NA	-25.0	-2.0	1L	X	None
SV108-050-204		10/19/2020	0840	1SC00884	NA	-26.0	-0.5	1L	X	None
SV108-150-204		10/19/2020	0844	1SC00977	NA	-24.0	-0.5	1L	X	None
SV108-250-204		10/19/2020	0848	1SS01015	NA	-25.0	0.0	1L	X	None
SV108-350-204		10/19/2020	0854	1SS00228	NA	-26.5	-2.5	1L	X	None
SV108-350-604		10/19/2020	0854	1SS01010	NA	-27.0	-2.5	1L	X	None
SV108-450-204		10/19/2020	0906	1SS00908	NA	-26.0	-2.0	1L	X	None
SV112-025-204		10/19/2020	1228	1SC00114	NA	-26.0	-2.5	1L	X	None
SV112-050-204		10/19/2020	1232	1SS00862	NA	-25.0	-5.0	1L	X	None
SV112-150-204		10/19/2020	1236	1SS00081	NA	-24.0	-2.5	1L	X	None

FedEX Tracking Number: **1028 3402 6290** Associated with Trip blank: SVTB204-03

Shipping information: Box number **1** of **5**

Report Tier Levels - please select  
 Tier I - Results (Default if not specified) \_\_\_\_\_ Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_ Tier IV (Data Validation Package) **X**

EDD required: **Yes**  
 Type: **ERPIMS / EQUIS**

Chain of Custody Seat: (Circle)  
 INTACT **BROKEN** ABSENT

Project Requirements: **QAPP**

Relinquished by: (Signature) <i>[Signature]</i>	Date: <b>10/21/20</b>	Time: <b>1300</b>	Received by: (Signature) <i>[Signature]</i>	Date: <b>10/25/20</b>	Time: <b>0900</b>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank Temperature **NA** °C



2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
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### Air - Chain of Custody Record & Analytical Service Request

COC #: **COC-SV204-02**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
**P2006066**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions		
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				Analysis Method					
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682				Sampler (Print & Sign) <i>Amy Rosebrough</i>					
Client Sample ID				Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg			Canister End Pressure "Hg/psig	Sample Volume
11	SV112-250-204		10/19/2020	1239	1SC01067	NA	-24.0	-1.5	1L	X	None		
12	SV112-350-204		10/19/2020	1242	1SS00707	NA	-25.0	-1.0	1L	X	None		
13	SV112-450-604		10/19/2020	1252	1SC00141	NA	-25.0	-1.0	1L	X	None		
14	SV112-450-204		10/19/2020	1252	1SS00966	NA	-25.0	-1.5	1L	X	None		
15	SV118-025-204		10/19/2020	0950	1SS00123	NA	-23.0	-1.0	1L	X	None		
16	SV118-050-204		10/19/2020	0953	1SC00670	NA	-24.0	0.0	1L	X	None		
17	SV118-160-204		10/19/2020	0957	1SC00144	NA	-24.0	-0.5	1L	X	None		
18	SV118-265-204		10/19/2020	1000	1SS01012	NA	-24.0	0.0	1L	X	None		
19	SV118-350-204		10/19/2020	1004	1SS00595	NA	-23.0	-0.5	1L	X	None		
20	SV118-450-204		10/19/2020	1013	1SC00008	NA	-24.0	-2.5	1L	X	None		
										X			
FedEX Tracking Number: <b>1028 3402 6290</b>						Associated with Trip blank: SVTB204-03							
Shipping information: Box number 1 of 5													
Report Tier Levels - please select													
Tier I - Results (Default if not specified) _____				Tier III (Results + QC & Calibration Summaries) _____				EDD required: Yes				Chain of Custody Seal: (Circle)	
Tier II (Results + QC Summaries) _____				Tier IV (Data Validation Package) <input checked="" type="checkbox"/> X				Type: ERPIMS / EQUiS				INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>	
Relinquished by: (Signature) <i>[Signature]</i>				Date: <b>10/21/20</b>		Time: <b>1300</b>		Received by: (Signature) <i>[Signature]</i>				Project Requirements: QAPP	
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Cooler / Blank Temperature <u>NA</u> °C	



**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
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 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-03**

Requested Turnaround Time in Business Days: 10 Day-Standard  
 ALS Project No. **P2006070**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				Analysis Method			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682							
Sampler (Print & Sign) <i>Amy Rosebrough</i>											
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC#)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
SV118-450-804		10/19/2020	1013	1SS00219	NA	-25.0	-1.5	1L	X	None	
SV119-025-204		10/20/2020	1325	1SS00008	NA	-25.0	-2.5	1L	X	None	
SV119-050-204		10/20/2020	1327	1SS00026	NA	-27.0	-2.5	1L	X	None	
SV119-150-204		10/20/2020	1330	1SS00146	NA	-24.0	-5.0	1L	X	None	
SV119-250-204		10/20/2020	1333	1SC00749	NA	-26.0	-1.0	1L	X	None	
SV119-350-204		10/20/2020	1337	1SC00648	NA	-26.0	0.0	1L	X	None	
SV119-450-204		10/20/2020	1345	1SS00169	NA	-26.0	-2.0	1L	X	None	
SV126-025-204		10/20/2020	1239	1SC00007	NA	-23.0	-2.0	1L	X	None	
SV126-050-204		10/20/2020	1241	1SC00030	NA	-24.0	-2.5	1L	X	None	
SV126-150-204		10/20/2020	1243	1SS00248	NA	-25.0	-2.5	1L	X	None	
FedEX Tracking Number: <b>1020 3402 6289</b>				Associated with Trip blank: SVTB204-03							
Shipping information: Box number 2 of 5											
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <u>X</u>				EDD required: Yes Type: <u>ERPIMS / EQUIS</u>				Chain of Custody Seal: (Circle) INTACT <u>INTACT</u> BROKEN ABSENT		Project Requirements: QAPP	
Relinquished by: (Signature) <i>[Signature]</i>		Date: <u>10/21/20</u>	Time: <u>1300</u>	Received by: (Signature) <i>[Signature]</i>		Date: <u>10/20/20</u>	Time: <u>0945</u>				
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	Cooler / Blank Temperature <u>NA</u> °C			



**Air - Chain of Custody Record & Analytical Service Request**

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COC #:

COC-SV204-04

Requested Turnaround Time In Business Days  
 10 Day-Standard

ALS Project No.

12006070

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		Analysis Method	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				TO-15 Project Specific List			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682							
Sampler (Print & Sign) <i>Amy Rosebrough</i>											
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
11 SV126-250-204		10/20/2020	1246	1SS00986	NA	-25.0	-2.5	1L	X	None	
12 SV126-350-204		10/20/2020	1248	1SC01139	NA	-26.0	-1.5	1L	X	None	
13 SV126-450-204		10/20/2020	1256	1SC00697	NA	-26.0	-1.5	1L	X	None	
14 SV129-025-204		10/19/2020	1211	1SC00733	AVG05062	-25.0	0.0	1L	X	None	
15 SV129-050-204		10/19/2020	1214	1SC00332	NA	-27.0	-2.5	1L	X	None	
16 SV129-150-204		10/19/2020	1216	1SC01270	NA	-24.0	-2.5	1L	X	None	
17 SV129-250-204		10/19/2020	1219	1SC00612	NA	-26.0	-5.0	1L	X	None	
18 SV129-350-204		10/19/2020	1222	1SS00790	NA	-26.5	-4.0	1L	X	None	
19 SV129-450-204		10/19/2020	1231	1SC01089	NA	-25.5	-1.5	1L	X	None	
20 SV130-025-204		10/20/2020	1149	1SS01025	NA	-26.0	-5.0	1L	X	None	
FedEX Tracking Number: 1028 3402 6289				Associated with Trip blank: SVTB204-03							
Shipping information: Box number 2 of 5											
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>				EDD required: Yes Type: ERPIMS / EQUiS			Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT		Project Requirements: QAPP		
Relinquished by: (Signature) <i>[Signature]</i>		Date: 10/21/20	Time: 1300	Received by: (Signature) <i>[Signature]</i>			Date: 10/26/20	Time: 0945	Cooler / Blank Temperature NA °C		



### Air - Chain of Custody Record & Analytical Service Request

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COC #:	<b>COC-SV204-05</b>
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Requested Turnaround Time in Business Days 10 Day-Standard	ALS Project No. <b>12006072</b>
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Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000	Project Name Kirtland AFB Bulk Fuels Facility	ALS Contact: Kate Kaneko 1 (805) 577-2089	TO-15 Project Specific List  Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143	Project Number 62735DM02	<b>Analysis Method</b>	
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>	P.O. # / Billing Information 17682		
Sampler (Print & Sign) 			

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume		
SV130-050-204		10/20/2020	1152	1SS00934	NA	-25.0	-3.0	1L	X	None
SV130-150-204		10/20/2020	1155	1SS00879	NA	-24.0	-4.0	1L	X	None
SV130-250-204		10/20/2020	1159	1SS01145	NA	-25.0	-4.0	1L	X	None
SV130-350-204		10/20/2020	1201	1SC00304	NA	-24.0	-1.0	1L	X	None
SV130-450-204		10/20/2020	1209	1SC00553	NA	-26.0	-2.0	1L	X	None
SV130-450-604		10/20/2020	1209	1SC00428	NA	-26.0	-2.0	1L	X	None
SV131-025-204		10/19/2020	1120	1SS00063	NA	-25.5	-3.0	1L	X	None
SV131-055-204		10/19/2020	1123	1SS00884	NA	-25.5	0.0	1L	X	None
SV131-150-204		10/19/2020	1126	1SC01146	NA	-23.0	-1.0	1L	X	None
SV131-245-204		10/19/2020	1129	1SS00495	NA	-26.0	-5.0	1L	X	None

FedEX Tracking Number: <b>1028 3402 6278</b>	Associated with Trip blank: SVTB204-03
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Shipping information: Box number <b>3</b> of <b>5</b>	
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<b>Report Tier Levels - please select</b> Tier I - Results (Default if not specified) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier II (Results + QC Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>		EDD required: <b>Yes</b> Type: <b>ERPIMS / EQUIS</b>	Chain of Custody Seal: (Circle) INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>	Project Requirements: QAPP
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Relinquished by: (Signature)	Date: <b>10/21/20</b>	Time: <b>1300</b>	Received by: (Signature)	Date: <b>10/26/20</b>	Time: <b>0945</b>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank Temperature NA °C



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**Air - Chain of Custody Record & Analytical Service Request**

COC #: **COC-SV204-06**

Requested Turnaround Time in Business Days: 10 Day-Standard  
 ALS Project No. **P2006072**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		Analysis Method	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				TO-15 Project Specific List			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682							
Sampler (Print & Sign) <i>Amy Rosebrough</i>											
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
SV131-350-204		10/19/2020	1132	1SS00501	NA	-26.0	-2.0	1L	X	None	
SV131-450-204		10/19/2020	1141	1SC00495	NA	-27.0	-1.5	1L	X	None	
SVE10-410-204		10/19/2020	1057	1SC01028	NA	-27.0	-2.5	1L	X	None	
SVE10-410-604		10/19/2020	1057	1SS00910	NA	-24.0	-0.5	1L	X	None	
SVE11-410-204		10/19/2020	1411	1SS00187	NA	-25.0	-5.0	1L	X	None	
SVE11-410-604		10/19/2020	1411	1SC01209	NA	-25.0	-1.5	1L	X	None	
SVE13-410-204		10/19/2020	1322	1SC00412	NA	-26.0	-2.5	1L	X	None	
SV01-050-204		10/19/2020	0852	1SS00888	NA	-24.0	-1.5	1L	X	None	
SV01-100-204		10/19/2020	0856	1SC00582	NA	-26.5	-2.5	1L	X	None	
SV01-250-204		10/19/2020	0901	1SS00967	NA	-26.0	-2.5	1L	X	None	
FedEX Tracking Number: <b>1028 3402 6278</b>				Associated with Trip blank: SVTB204-03							
Shipping information: Box number 3 of 5											
<b>Report Tier Levels - please select</b>				EDD required: <b>Yes</b>				Chain of Custody Seal: (Circle)		Project Requirements: QAPP	
Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____				Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <b>X</b>				INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>			
Relinquished by: (Signature) <i>Austin</i>		Date: <b>10/21/20</b>	Time: <b>1300</b>	Received by: (Signature) <i>[Signature]</i>		Date: <b>10/23/20</b>	Time: <b>0945</b>	Cooler / Blank Temperature <u>NA</u> °C			



**Air - Chain of Custody Record & Analytical Service Request**

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COC #: **COC-SV204-07**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
**P2006070**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				Analysis Method			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682							
Sampler (Print & Sign) <i>Amy Rosebrough</i>											
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure *Hg	Canister End Pressure *Hg/psig	Sample Volume			
SV01-300-204		10/19/2020	0907	1SC00597	NA	-24.0	-1.5	1L	X	None	
SV02-050-204		10/19/2020	0939	1SS00864	AVG05041	-26.5	-3.5	1L	X	None	
SV02-100-204		10/19/2020	0944	1SS00801	NA	-25.0	-3.0	1L	X	None	
SV02-150-604		10/19/2020	0950	1SS00226	NA	-25.0	-5.0	1L	X	None	
SV02-150-204		10/19/2020	0950	1SC00803	NA	-25.0	0.0	1L	X	None	
SV05-050-604		10/19/2020	0800	1SC00272	NA	-25.0	-1.5	1L	X	None	
SV05-050-204		10/19/2020	0800	1SC00878	NA	-27.0	-2.0	1L	X	None	
SV05-100-204		10/19/2020	0804	1SS00812	NA	-27.0	-2.0	1L	X	None	
SV05-230-204		10/19/2020	0812	1SS00786	NA	-26.0	-2.5	1L	X	None	
SV05-290-204		10/19/2020	0817	1SC00251	AVG04808	-25.5	-1.0	1L	X	None	
FedEX Tracking Number: <b>1028 3402 6267</b>				Associated with Trip blank: SVTB204-03							
Shipping information: Box number <b>4</b> of <b>5</b>											
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <b>X</b>				EDD required: <b>Yes</b> Type: <b>ERPIMS / EQUIS</b>			Chain of Custody Seal: (Circle) INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>		Project Requirements: QAPP		
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>10/21/20</b>	Time: <b>1300</b>	Received by: (Signature) <i>[Signature]</i>			Date: <b>10/21/20</b>	Time: <b>0945</b>			
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)			Date:	Time:	Cooler / Blank Temperature <b>NA</b> °C		



**Air - Chain of Custody Record & Analytical Service Request**

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COC #: **COC-SV204-08**

Requested Turnaround Time in Business Days: 10 Day-Standard  
 ALS Project No: **17006080**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		TO-15 Project Specific List	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				Analysis Method			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				P.O. # / Billing Information 17682							
Sampler (Print & Sign) <i>Amy Roseborough</i>											
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
11 SV08-050-204		10/19/2020	1315	1SC00397	AVG04892	-25.0	-3.0	1L	X	None	
12 SV08-100-804		10/19/2020	1320	1SC01195	NA	-25.5	-2.0	1L	X	None	
13 SV06-100-204		10/19/2020	1320	1SS00784	NA	-26.5	-4.0	1L	X	None	
14 SV08-252-204		10/19/2020	1328	1SS00874	NA	-26.0	-3.5	1L	X	None	
15 SV06-302-204		10/19/2020	1332	1SS01028	AVG04576	-26.0	-3.0	1L	X	None	
16 SV12-150-204		10/19/2020	1102	1SC00328	NA	-26.0	-1.0	1L	X	None	
17 SV12-250-204		10/19/2020	1105	1SS00153	NA	-26.0	-4.0	1L	X	None	
18 SV12-350-204		10/19/2020	1108	1SC00484	NA	-24.0	-2.5	1L	X	None	
19 SV12-450-204		10/19/2020	1112	1SC00010	NA	-24.0	-3.0	1L	X	None	
20 SV13-150-204		10/19/2020	1417	1SC00945	NA	-23.0	-0.5	1L	X	None	
FedEX Tracking Number: <b>1028 3402 6267</b>				Associated with Trip blank: SVTB204-03							
Shipping information: Box number 4 of 5											
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>				EDD required: Yes Type: <u>ERPIMS / EQUIS</u>			Chain of Custody Seal: (Circle) INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>		Project Requirements: QAPP		
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>10/21/20</b>	Time: <b>1300</b>	Received by: (Signature) <i>[Signature]</i>			Date: <b>10/26/20</b>	Time: <b>0749</b>	Cooler / Blank Temperature <u>NA</u> °C		
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)			Date:	Time:			



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**Air - Chain of Custody Record & Analytical Service Request**

COC #: **COC-SV204-09**

Requested Turnaround Time in Business Days: 10 Day-Standard  
 ALS Project No: **V2006080**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000				Project Name Kirtland AFB Bulk Fuels Facility				ALS Contact: Kate Kaneko 1 (805) 577-2089		Analysis Method	Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143				Project Number 62735DM02				P.O. # / Billing Information 17682			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>				Sampler (Print & Sign) <i>Amy Roseborough</i>				TO-15 Project Specific List			
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume			
21 SV13-250-204		10/19/2020	1421	1SS00906	NA	-26.0	-5.0	1L	X	None	
22 SV13-350-204		10/19/2020	1424	1SC00170	NA	-25.0	-2.0	1L	X	None	
23 SV13-450-204		10/19/2020	1428	1SS00896	NA	-27.0	-3.5	1L	X	None	
24 SV15-150-204		10/19/2020	1326	1SS01016	NA	-27.5	-2.5	1L	X	None	
25 SV15-250-204		10/19/2020	1329	1SS00940	NA	-25.0	-3.5	1L	X	None	
26 SV15-350-204		10/19/2020	1334	1SS00901	NA	-21.0	-3.5	1L	X	None	
27 SV15-450-204		10/19/2020	1338	1SS00881	NA	-26.0	-4.0	1L	X	None	
28 SVTB204-03		10/21/2020	1200	1SC00088	NA	-24.5	-24.5	1L	X	None	
FedEX Tracking Number: <b>1028 3402 6256</b>				Associated with Trip blank: SVTB204-03							
Shipping information: Box number 5 of 5				Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <u>X</u>							
Relinquished by: (Signature) <i>[Signature]</i>				Date: <b>10/21/20</b>		Time: <b>1300</b>		Received by: (Signature) <i>[Signature]</i>		Chain of Custody Seal: (Circle) INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>	
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)		Project Requirements: QAPP	
				Date:		Time:		Date:		Time:	
										Cooler / Blank Temperature <u>NA</u> °C	



**APPENDIX D-1**

**DATA QUALITY EVALUATION REPORT – SOIL VAPOR MONITORING**  
**(OCTOBER–DECEMBER 2020)**



## LIST OF ACRONYMS AND ABBREVIATIONS

µg/m <sup>3</sup>	microgram(s) per cubic meter
%	percent
AFB	Air Force Base
ALS	ALS Environmental
DL	detection limit
DoD	Department of Defense
EPA	U.S. Environmental Protection Agency
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LOD	limit of detection
LOQ	limit of quantitation
Q4	fourth quarter of the year (October 1 – December 31)
QAPjP	Quality Assurance Project Plan
QC	quality control
RPD	relative percent different
SDG	sample delivery group
VOC	volatile organic compound



## D-1.1 DATA QUALITY EVALUATION REPORT – SOIL VAPOR MONITORING (OCTOBER–DECEMBER 2020)

### D-1.1.1 Laboratory Data Quality Summary

This Data Quality Evaluation Report describes the findings of the data validation performed for the analysis of soil vapor samples collected during October–December 2020 (quarter 4 [Q4]). These data were collected in support of the Work Plan for Vadose Zone Coring, Vapor Monitoring, and Water Supply Sampling, Bulk Fuels Facility, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base (AFB), New Mexico (Kirtland AFB, 2017). Sampling and analysis for the Q4 2020 event were conducted in accordance with the procedures and overall quality control (QC) and quality assurance protocols presented in the Work Plan and Quality Assurance Project Plan (QAPjP) for Bulk Fuels Facility Vadose Zone Treatability Studies, Solid Waste Management Units ST-106/SS-111, Kirtland AFB, New Mexico (Kirtland AFB, 2017).

Samples discussed in this report were collected during the period of October 5 through October 30, 2020, in association with the Kirtland AFB semiannual soil vapor monitoring program. Sampling was conducted at 271 soil vapor monitoring wells and included the collection of 29 field duplicate samples and three trip blank samples. Thirteen soil vapor wells were not sampled during Q4 due to the bioventing and bioremediation pilot study and impact to the 13 vapor wells.

Soil vapor samples were shipped to ALS Environmental (ALS), Simi Valley, California for analysis. ALS maintains current Department of Defense (DoD) Environmental Laboratory Accreditation Program certification for the required analysis in support of this project. Sample analysis was performed in accordance with the U.S. Environmental Protection Agency (EPA) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Method TO-15.

Chemical analytical data for the Q4 2020 event were reported by ALS in 16 sample delivery groups (SDGs): 2005738, 2005742-2005744, 2005748-2005749, 2005893-2005897, 2006066, 2006070, 2006072, 2006080, and 2006267. Appendix D-1 – Table 1 summarizes samples collected from the soil vapor monitoring wells and the associated field QC samples, collection date, laboratory SDG, and analytical method for the Q4 semiannual event.

A third-party subcontractor (Environmental Data Services, Inc., Palm Gardens, Florida) conducted EPA Stage 3 data validation on 30 percent (%) of the Q4 2020 sample data achieving the QAPjP requirement of 23%. All data underwent data verification for completeness and compliance to project requirements. The data that underwent the Stage 3 validation were included in five SDGs (2005742, 2005743, 2005744, 2005748, 2005749). Analytical data validation was performed using the quality criteria specified in the following documents, analytical guidelines, and methods:

- Work Plan and QAPjP (Kirtland AFB, 2017)
- EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Data Review (EPA, 2014)
- EPA Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Method TO-15 (EPA, 1999).

The following QC criteria were included in the EPA Stage 3 validation as applicable to the analytical method:

- Sample preservation and extraction and analysis holding times
- Canister certification and pressure differences
- Canister certification blank
- Laboratory method blank
- Surrogate spike recoveries
- Laboratory control sample (LCS) and LCS duplicate (LCSD) recoveries
- Relative percent difference (RPD)
- Initial and continuing calibrations
- Internal standard area
- Field duplicate sample precision.

Analytical data were reviewed to evaluate precision, accuracy (bias), representativeness, comparability, completeness, and sensitivity as defined below:

- *Precision* is expressed as the RPD between the results of replicate sample analyses: sample duplicates and LCSDs. When analyte RPDs exceed the acceptance criteria, the data are qualified accordingly.
- *Accuracy (bias)* is demonstrated by recovery of target analytes from fortified blank and sample matrices such as the LCS/LCSD samples. For organic methods, bias is also demonstrated through recovery of surrogates from each field and QC sample. A comparison was made from the recovery of target analytes from fortified samples to the acceptance criteria defined in the QAPjP (Kirtland AFB, 2017). When the acceptance criteria are not available in the QAPjP, results are compared with the laboratory in-house control limits. When these criteria are not met, the data are qualified accordingly. Bias may be indicated as high or low.
- *Representativeness* of the samples submitted for analysis is ensured by adherence to standard sampling techniques and standard analytical method protocols.
- *Comparability* of sample results is ensured through the use of approved sampling and analysis methods and comparison of sample results to historical sample data.
- *Completeness* of data is evaluated based on contractual, analytical, and technical completeness for the monthly supply well data. Technical completeness of data is used to assess overall project completeness and is expressed as a percentage of the ratio of the number of usable data results to the total number of analytical data results. Only rejected data (R-qualified) are considered not usable to achieve project objectives.
- *Sensitivity* is determined by the ability to achieve the established method-specific reporting limits in accordance with DoD Quality Systems Manual Version 5.3 (DoD, 2019) requirements and includes establishing the detection limit (DL), limit of detection (LOD), and limit of quantitation (LOQ). For this project, the laboratory reported positive results to the DL and flagged with a “J” qualifier, signifying estimated data. Non-detect results were reported at the LOD with a “U” qualifier per the QAPjP. Sensitivity will be evaluated based on comparison of the sample reporting limits to the project screening levels.

The following sections present the EPA Stage 3 data validation findings for the Q4 2020 soil vapor sample data. Appendix D-1 – Table 2 presents the data qualification flags and reason codes to be applied to analytical data, if required.

## D-1.2 DATA QUALITY FINDINGS

### D-1.2.1 Sample Preservation and Sample Extraction and Analysis Holding Times (Reason Code HT)

The vapor samples were shipped 2-day ground to the ALS laboratory. No temperature preservation requirement is applicable to vapor samples. The 30-day sample hold time was evaluated by comparing the sample collection date to the sample analysis date. Sample analysis holding times were met for all samples for Q4 2020.

### D-1.2.2 Canister Certification and Laboratory Method Blanks (Reason Code CB/MB)

The soil vapor sample results were evaluated with respect to the canister certification blanks and laboratory method blanks prepared and analyzed for each analytical batch. All volatile organic compound (VOC) analytes were non-detect or less than the one-half the LOQ in the canister certification blank samples in accordance with ALS DoD method certification. No samples were qualified based on method blank or canister blank contamination.

### D-1.2.3 Initial and Continuing Calibration Blanks (Reason Code CB/CCB)

Initial and continuing calibration blank criteria were reviewed to ensure that the instruments were free of contamination prior to sample analysis. Calibration blank concentrations are considered acceptable when contaminant levels in the blank are less than one-half the LOQ for target analytes and less than the LOQ for common laboratory contaminants. Initial and continuing calibration blank data were within control criteria for all sample analysis.

### D-1.2.4 Surrogate Recoveries (Reason Code SURR)

Surrogate compounds are added to field and laboratory QC samples for organic analysis to evaluate the matrix effect and method performance on an individual sample basis. All surrogate compound recoveries for the soil vapor sample data were within method control criteria.

### D-1.2.5 Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries and Precision (Reason Codes LCS/RPD)

The LCS is an aliquot of an analyte-free matrix spiked with target analytes that are prepared with each analytical batch for each analytical method. The recovery of target analytes from the LCS analysis is a measurement of method performance in an interference-free sample matrix. All LCS recoveries for the soil vapor samples were within method control limits with exception of ethyl acetate reported in SDGs 2005749, 2005893, and 2005895. Nine associated sample detections were qualified “J”, signifying estimated results based on data verification. Appendix D-1 – Table 3 presents the qualified sample results based on LCS recovery.

### D-1.2.6 Internal Standard Recoveries (Reason Code IS)

Internal standards are added to all samples including QC samples to monitor the instrumentation sensitivity and response during sample analysis. The internal standard area response and retention times are monitored to ensure they are within the control criteria for the analytical method. All internal standard recoveries were within control limits for the Q4 2020 sample data.

### D-1.2.7 Initial and Continuing Calibration Verification (Reason Code CCV)

Instrument calibration is performed for all analyses in accordance with method requirements. The linear analytical range is established for each method by analysis of calibration standards prepared at increasing concentrations that cover the expected sample concentration range. The acceptability of the initial calibration is determined by calculation of a percent relative standard deviation or coefficient.

The stability of the analytical system is monitored by analysis of continuing calibration standards at concentrations near the mid-point of the instrument calibration range. The percent difference values between the relative response factor in the initial calibration and the relative response factor in the continuing calibration are reviewed to ensure instrument calibration criteria are within method control limits. All initial and continuing calibration verifications met the method-specific control criteria for the Q4 soil vapor analytical data with the exception of chloromethane in SDG 2005894. Six sample results were “J” or “UJ” qualified during validation. Appendix D-1 – Table 3 presents the qualified sample results based on calibration criteria for the Q4 2020 data.

### D-1.2.8 Trip Blanks for Volatile Organic Compounds (Reason Code TB)

Three trip blank samples were shipped one per week with the Q4 2020 soil vapor samples, although trip blanks are not required for EPA TO-15 or per the QAPjP. Low-level detections of VOCs were reported in all three trip blank samples however, only low-level detections of seven VOC analytes in the trip blank sample associated with SDG 2005748 resulted in 51 “U” qualified sample results (non-detects). Low-level detections in the other two trip blanks did not result in data qualification since the associated results were either non-detect or greater than five times the trip blank concentration. It should be noted that trip blank canisters are not entirely representative of batch contamination due to the fact that each sample is contained within an individual Summa<sup>®</sup> canister, although trip blanks do travel with the field samples to the laboratory so may potentially be exposed to contamination during shipping. Table 4 presents the Q4 2020 trip blank sample results.

### D-1.2.9 Field Duplicate Samples

In accordance with the project QAPjP requirements (Kirtland AFB, 2017), field duplicate samples are collected at a frequency of one field duplicate for every 10 samples collected (10%). For the Q4 2020 sampling event, 29 field duplicate samples were collected in association with 271 soil vapor samples and analyzed for EPA TO-15. Field duplicate samples were collected at a frequency of 10.7% for the Q4 2020 event.

For field duplicate samples, RPD was evaluated by calculating the RPD between the parent sample and the duplicate sample. The RPD was calculated using the following equation:

$$RPD = |(S-D)/[(S+D)/2]| \times 100$$

where

- S = Sample result.
- D = Duplicate result.

Acceptable precision control criteria are established at less than or equal to 50% for soil vapor samples. The RPD was calculated between pairs of field duplicate samples when both results are reported at or above LOQ. The results for the soil vapor and the associated field duplicate samples are provided in

Appendix D-1 – Table 5. Sample results associated with 7 field samples and field duplicate samples were qualified “J” based on exceedance of the RPD criteria and presented in Appendix D-1 – Table 3.

### **D-1.2.10 Professional Judgement – Q4 2020**

Professional judgement may be applied by a third-party data validation subcontractor or the project chemist during the data review process to apply validation qualifiers based on site-specific and project-specific knowledge, historical data, comparability of data, and analytical expertise. Professional judgement was applied by the project chemist to qualify Q4 2020 soil vapor data during the data verification process for data that did not undergo Stage 3 validation. Data that were qualified during data verification review include six chloromethane results associated with CCV exceedance in SDG 2005894; and nine ethyl acetate results associated with elevated LCS recoveries in SDGs 2005749, 2005893, and 2005895. Data results were “UJ” and “J” qualified and are included in Appendix D-1 – Table 3.

### **D-1.2.11 Professional Judgement – Errata to Appendix D-1 of the Quarterly Monitoring Report – April-June**

Following the submission of the Quarterly Monitoring Report – April-June 2020 (Kirtland AFB, 2020) it was determined by the project team that the EDB result reported by the laboratory for sample KAFB-106113-020 (490 micrograms per cubic meter [ $\mu\text{g}/\text{m}^3$ ]) was an anomalous result compared to the non-detect EDB results reported for the 10 previous samples collected at this location. Based on inquiries and information provided by the laboratory it was determined that the canister used to collect the sample at KAFB-106113-020 was previously used for a non-Kirtland sample with an EDB concentration reported at 15,000,000  $\mu\text{g}/\text{m}^3$ . Based on this information it is likely cross-contamination occurred with the canister used to collect the sample at KAFB-106113-020. Professional judgement was applied by the project chemist and team to revise the Second Quarter 2020 soil vapor result for EDB for sample KAFB-106113-020 from 490  $\mu\text{g}/\text{m}^3$  to non-detect at the LOD in the Kirtland project database and the Environmental Resources Program Information Management System production database.

## D-1.3 COMPLETENESS

The following sections present a discussion of contractual, analytical, and technical completeness for the soil vapor analytical data completeness.

### D-1.3.1 Contractual Completeness

Contractual completeness is a quantitative determination of the number of unqualified results compared to the total number of sample results expressed as a percentage, based on data qualified for QC outliers related to analytical method performance. These include data qualified for calibration or method blank contamination, missed holding times, LCS recovery, and/or precision. The contractual completeness goal is 95% per each event. Contractual completeness was calculated as follows:

$$\text{Percent Contractual Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100$$

For the Q4 2020 soil vapor results, the contractual completeness was 99.9% for the TO-15 analytical method (15 qualified analytes for LCS recovery and CCV exceedance out of 12,900 analytes for field and field duplicate samples). The 95% contractual completeness objective was achieved for the semiannual sampling event.

### D-1.3.2 Analytical Completeness

Analytical completeness is a quantitative measure of the number of unqualified data results compared to the total number of results expressed as a percentage, based on the target analytes qualified for exceedances of QC requirements from calibration, LCS, surrogate, method precision, and blank contamination results. The analytical completeness goal is 90% for the project. Analytical completeness was calculated as follows:

$$\text{Percent Analytical Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100 =$$

Overall analytical completeness for Q4 2020 is 99.2% (98 qualified analytes out of 12,900 analytes for field and field duplicate samples) based on LCS recovery, trip blank contamination, field duplicate and RPD exceedance, and calibration verification exceedance.

### D-1.3.3 Technical Completeness

Technical completeness is a quantitative measure of the data usability based on the number of rejected data compared to the total number of sample results. The technical completeness goal for each method is equal to or greater than 95%. The technical completeness calculation considers all data that are not rejected (R-qualified) to be usable data to achieve project objectives. The technical completeness was calculated as follows:

$$\text{Percent Technical Completeness} = \frac{\text{Number of Usable Results}}{\text{Total Number of Results}} \times 100$$

The project data quality objectives were achieved for the semiannual soil vapor sampling event. The technical completeness for the Q4 2020 data is 100%. Technical completeness is provided in Appendix D-1 – Table 6.

#### **D-1.3.4 Data Analysis Completeness**

As a part of the data review process, chain-of-custody forms and project data deliverables are reviewed against the project requirements in the Work Plan (Kirtland AFB, 2017) to ensure compliance with the sampling plan and that analytical results were reported for all planned methods and samples. Data completeness for the soil vapor monitoring data deliverables was determined to be 100% complete. Analytical data packages are provided in Appendix D-2.

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## D-1.4 REPRESENTATIVENESS AND COMPARABILITY

Semiannual soil vapor sampling was conducted in accordance with the sampling and analysis protocols and standard operating procedures documented in the Work Plan (Kirtland AFB, 2017). Approved procedures were used to collect, document, and ship samples to the ALS laboratory, thus ensuring the samples collected were representative of the soil vapor monitoring wells.

ALS maintains current DoD Environmental Laboratory Accreditation Program certification and adhered to the analytical methods documented in the project QAPjP and DoD Quality Systems Manual requirements to prepare and analyze samples and report the data. These certifications ensure the comparability of the analytical results between different samples and different sampling events.

EPA Stage 3 validation was performed on 30% of the analytical data and data verification was performed on the remainder to verify that the laboratory complied with the project QAPjP and method requirements. QC results that exceeded method control criteria resulted in data qualification as presented in the previous sections. Based on a review of the completed sample collection logs, chain-of-custody forms, sample receipt forms, and laboratory data packages, the analytical data reported for the semiannual soil vapor sampling achieved the project data representativeness and comparability requirements.

## D-1.5 SENSITIVITY

Data sensitivity for the semiannual soil vapor analytical data was achieved by complying with the analytical method guidelines specified in the project QAPjP. Project reporting limits are presented in the QAPjP, Attachment 2, Table 2-1. Non-detect analytes are reported at the LOD and flagged “U.” Detections of target analytes below the method LOQ are flagged “J” as estimated values per the project requirements.

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## D-1.6 CONCLUSIONS

The analytical data reported for the Q4 2020 semiannual soil vapor monitoring have been reviewed for precision, accuracy (bias), representativeness, comparability, completeness, and sensitivity (30% of data) and verified for completeness and compliance (100% of data). Data quality criteria exceedances were noted for field duplicate sample RPDs, trip blank detections, LCS recovery and instrument calibration verification exceedance. Data quality exceedances resulted in “U,” “UJ,” and “J” qualified (non-detect and estimated) sample results. Estimated data are usable to achieve project objectives. The 95% technical completeness goal was achieved for the Q4 2020 sampling event. All data are usable to achieve the project data quality objectives.

## D-1.7 REFERENCES

- Department of Defense (DoD). 2019. *Quality Systems Manual for Environmental Laboratories, Version 5.3*. May.
- (U.S.) Environmental Protection Agency (EPA). 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Method TO-15, Second Edition, EPA/625/R-96/010b*. January.
- EPA. 2014. *EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002*. Office of Superfund Remediation and Technology Innovation. August.
- Kirtland Air Force Base (AFB). 2017. *Work Plan for Vadose Zone Coring, Vapor Monitoring, and Water Supply Sampling, Bulk Fuels Facility, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base, Albuquerque, New Mexico*. Prepared for U.S. Army Corps of Engineers—Albuquerque District under Contract W9128F-13-D-0006 DM02. December.
- Kirtland AFB, 2020. *Quarterly Monitoring Report – April-June 2020, Bulk Fuels Facility, Solid Waste Management Units ST-106/SS-111, Kirtland Air Force Base, Albuquerque, New Mexico*. Prepared for U.S. Army Corps of Engineers – Albuquerque District under Contract W912DR-12-D-0006 DM01. September.

## TABLES

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**Table D-1-1  
Soil Vapor Sample Collection Summary, Q4 2020**

<b>Sample Location ID</b>	<b>Field Sample ID</b>	<b>Sample Date</b>	<b>Delivery Group</b>	<b>Analytical Parameter<sup>a</sup></b>	<b>Comments</b>
KAFB-106028-150	SV028-150-204	10/5/2020	P2005738	VOCs	--
KAFB-106028-250	SV028-250-204	10/5/2020	P2005738	VOCs	--
KAFB-106028-350	SV028-350-204	10/5/2020	P2005738	VOCs	--
KAFB-106028-450	SV028-450-204	10/5/2020	P2005738	VOCs	--
KAFB-106108-025	SV108-025-204	10/19/2020	P2006066	VOCs	--
KAFB-106108-050	SV108-050-204	10/19/2020	P2006066	VOCs	--
KAFB-106108-150	SV108-150-204	10/19/2020	P2006066	VOCs	--
KAFB-106108-250	SV108-250-204	10/19/2020	P2006066	VOCs	--
KAFB-106108-350	SV108-350-204	10/19/2020	P2006066	VOCs	--
KAFB-106108-350	SV108-350-604	10/30/2020	P2006267	VOCs	Field Duplicate
KAFB-106108-450	SV108-450-204	10/19/2020	P2006066	VOCs	--
KAFB-106109-025	SV109-025-204	10/13/2020	P2005893	VOCs	--
KAFB-106109-050	SV109-050-204	10/13/2020	P2005893	VOCs	--
KAFB-106109-150	SV109-150-204	10/13/2020	P2005893	VOCs	--
KAFB-106109-250	SV109-250-204	10/13/2020	P2005893	VOCs	--
KAFB-106109-350	SV109-350-204	10/13/2020	P2005893	VOCs	--
KAFB-106109-450	SV109-450-204	10/13/2020	P2005893	VOCs	--
KAFB-106109-450	SV109-450-604	10/13/2020	P2005893	VOCs	Field Duplicate
KAFB-106110-025	SV110-025-204	10/13/2020	P2005893	VOCs	--
KAFB-106110-050	SV110-050-204	10/13/2020	P2005893	VOCs	--
KAFB-106110-150	SV110-150-204	10/13/2020	P2005893	VOCs	--
KAFB-106110-250	SV110-250-204	10/13/2020	P2005893	VOCs	--
KAFB-106110-250	SV110-250-604	10/13/2020	P2005893	VOCs	Field Duplicate
KAFB-106110-350	SV110-350-204	10/13/2020	P2005893	VOCs	--
KAFB-106110-450	SV110-450-204	10/13/2020	P2005893	VOCs	--
KAFB-106111-025	SV111-025-204	10/6/2020	P2005743	VOCs	--
KAFB-106111-050	SV111-050-204	10/6/2020	P2005743	VOCs	--
KAFB-106111-050	SV111-050-604	10/6/2020	P2005743	VOCs	Field Duplicate
KAFB-106111-150	SV111-150-204	10/6/2020	P2005743	VOCs	--
KAFB-106111-250	SV111-250-204	10/6/2020	P2005743	VOCs	--
KAFB-106111-350	SV111-350-204	10/6/2020	P2005743	VOCs	--
KAFB-106111-450	SV111-450-204	10/6/2020	P2005743	VOCs	--
KAFB-106112-025	SV112-025-204	10/19/2020	P2006066	VOCs	--
KAFB-106112-050	SV112-050-204	10/19/2020	P2006066	VOCs	--
KAFB-106112-150	SV112-150-204	10/19/2020	P2006066	VOCs	--
KAFB-106112-250	SV112-250-204	10/19/2020	P2006066	VOCs	--
KAFB-106112-350	SV112-350-204	10/19/2020	P2006066	VOCs	--
KAFB-106112-450	SV112-450-204	10/19/2020	P2006066	VOCs	--
KAFB-106112-450	SV112-450-604	10/19/2020	P2006066	VOCs	Field Duplicate
KAFB-106113-020	SV113-020-204	10/13/2020	P2005893	VOCs	--
KAFB-106113-050	SV113-050-204	10/13/2020	P2005893	VOCs	--
KAFB-106113-150	SV113-150-204	10/13/2020	P2005893	VOCs	--
KAFB-106113-250	SV113-250-204	10/13/2020	P2005893	VOCs	--
KAFB-106113-350	SV113-350-204	10/13/2020	P2005893	VOCs	--
KAFB-106113-450	SV113-450-204	10/13/2020	P2005893	VOCs	--
KAFB-106114-025	SV114-025-204	10/6/2020	P2005744	VOCs	--
KAFB-106114-050	SV114-050-204	10/6/2020	P2005744	VOCs	--
KAFB-106114-150	SV114-150-204	10/6/2020	P2005744	VOCs	--
KAFB-106114-250	SV114-250-204	10/6/2020	P2005744	VOCs	--
KAFB-106114-250	SV114-250-604	10/6/2020	P2005744	VOCs	Field Duplicate
KAFB-106114-350	SV114-350-204	10/6/2020	P2005744	VOCs	--
KAFB-106114-450	SV114-450-204	10/6/2020	P2005744	VOCs	--

**Table D-1-1  
Soil Vapor Sample Collection Summary, Q4 2020**

Sample Location ID	Field Sample ID	Sample Date	Delivery Group	Analytical Parameter <sup>a</sup>	Comments
KAFB-106115-025	SV115-025-204	10/13/2020	P2005894	VOCs	--
KAFB-106115-025	SV115-025-604	10/13/2020	P2005894	VOCs	Field Duplicate
KAFB-106115-050	SV115-050-204	10/13/2020	P2005894	VOCs	--
KAFB-106115-150	SV115-150-204	10/13/2020	P2005894	VOCs	--
KAFB-106115-250	SV115-250-204	10/13/2020	P2005894	VOCs	--
KAFB-106115-350	SV115-350-204	10/13/2020	P2005894	VOCs	--
KAFB-106115-450	SV115-450-204	10/13/2020	P2005894	VOCs	--
KAFB-106116-025	SV116-025-204	10/6/2020	P2005744	VOCs	--
KAFB-106116-050	SV116-050-204	10/6/2020	P2005744	VOCs	--
KAFB-106116-150	SV116-150-204	10/6/2020	P2005744	VOCs	--
KAFB-106116-250	SV116-250-204	10/6/2020	P2005744	VOCs	--
KAFB-106116-350	SV116-350-204	10/6/2020	P2005744	VOCs	--
KAFB-106116-350	SV116-350-604	10/6/2020	P2005744	VOCs	Field Duplicate
KAFB-106116-450	SV116-450-204	10/6/2020	P2005744	VOCs	--
KAFB-106117-025	SV117-025-204	10/6/2020	P2005744	VOCs	--
KAFB-106117-050	SV117-050-204	10/6/2020	P2005744	VOCs	--
KAFB-106117-150	SV117-150-204	10/6/2020	P2005744	VOCs	--
KAFB-106117-250	SV117-250-204	10/6/2020	P2005744	VOCs	--
KAFB-106117-350	SV117-350-204	10/6/2020	P2005744	VOCs	--
KAFB-106117-450	SV117-450-204	10/6/2020	P2005744	VOCs	--
KAFB-106118-025	SV118-025-204	10/19/2020	P2006066	VOCs	--
KAFB-106118-050	SV118-050-204	10/19/2020	P2006066	VOCs	--
KAFB-106118-160	SV118-160-204	10/19/2020	P2006066	VOCs	--
KAFB-106118-265	SV118-265-204	10/19/2020	P2006066	VOCs	--
KAFB-106118-350	SV118-350-204	10/19/2020	P2006066	VOCs	--
KAFB-106118-450	SV118-450-204	10/19/2020	P2006066	VOCs	--
KAFB-106118-450	SV118-450-604	10/19/2020	P2006066	VOCs	Field Duplicate
KAFB-106119-025	SV119-025-204	10/20/2020	P2006070	VOCs	--
KAFB-106119-050	SV119-050-204	10/20/2020	P2006070	VOCs	--
KAFB-106119-150	SV119-150-204	10/20/2020	P2006070	VOCs	--
KAFB-106119-250	SV119-250-204	10/20/2020	P2006070	VOCs	--
KAFB-106119-350	SV119-350-204	10/20/2020	P2006070	VOCs	--
KAFB-106119-450	SV119-450-204	10/20/2020	P2006070	VOCs	--
KAFB-106120-025	SV120-025-204	10/12/2020	P2005894	VOCs	--
KAFB-106120-025	SV120-025-604	10/12/2020	P2005894	VOCs	Field Duplicate
KAFB-106120-050	SV120-050-204	10/12/2020	P2005894	VOCs	--
KAFB-106120-150	SV120-150-204	10/12/2020	P2005894	VOCs	--
KAFB-106120-250	SV120-250-204	10/12/2020	P2005894	VOCs	--
KAFB-106120-350	SV120-350-204	10/12/2020	P2005894	VOCs	--
KAFB-106120-450	SV120-450-204	10/12/2020	P2005894	VOCs	--
KAFB-106121-025	SV121-025-204	10/12/2020	P2005894	VOCs	--
KAFB-106121-050	SV121-050-204	10/12/2020	P2005894	VOCs	--
KAFB-106121-145	SV121-145-204	10/12/2020	P2005894	VOCs	--
KAFB-106121-145	SV121-145-604	10/12/2020	P2005894	VOCs	Field Duplicate
KAFB-106121-250	SV121-250-204	10/12/2020	P2005894	VOCs	--
KAFB-106121-350	SV121-350-204	10/12/2020	P2005894	VOCs	--
KAFB-106121-450	SV121-450-204	10/12/2020	P2005895	VOCs	--
KAFB-106122-025	SV122-025-204	10/12/2020	P2005895	VOCs	--
KAFB-106122-050	SV122-050-204	10/12/2020	P2005895	VOCs	--
KAFB-106122-150	SV122-150-204	10/12/2020	P2005895	VOCs	--
KAFB-106122-250	SV122-250-204	10/12/2020	P2005895	VOCs	--
KAFB-106122-350	SV122-350-204	10/12/2020	P2005895	VOCs	--

**Table D-1-1  
Soil Vapor Sample Collection Summary, Q4 2020**

Sample Location ID	Field Sample ID	Sample Date	Delivery Group	Analytical Parameter <sup>a</sup>	Comments
KAFB-106122-450	SV122-450-204	10/12/2020	P2005895	VOCs	--
KAFB-106123-025	SV123-025-204	10/12/2020	P2005895	VOCs	--
KAFB-106123-050	SV123-050-204	10/12/2020	P2005895	VOCs	--
KAFB-106123-150	SV123-150-204	10/12/2020	P2005895	VOCs	--
KAFB-106123-250	SV123-250-204	10/12/2020	P2005895	VOCs	--
KAFB-106123-350	SV123-350-204	10/12/2020	P2005895	VOCs	--
KAFB-106123-450	SV123-450-204	10/12/2020	P2005895	VOCs	--
KAFB-106124-025	SV124-025-204	10/5/2020	P2005738	VOCs	--
KAFB-106124-050	SV124-050-204	10/5/2020	P2005738	VOCs	--
KAFB-106124-150	SV124-150-204	10/5/2020	P2005738	VOCs	--
KAFB-106124-250	SV124-250-204	10/5/2020	P2005738	VOCs	--
KAFB-106124-250	SV124-250-604	10/5/2020	P2005738	VOCs	Field Duplicate
KAFB-106124-350	SV124-350-204	10/5/2020	P2005738	VOCs	--
KAFB-106124-450	SV124-450-204	10/5/2020	P2005738	VOCs	--
KAFB-106125-025	SV125-025-204	10/5/2020	P2005738	VOCs	--
KAFB-106125-050	SV125-050-204	10/5/2020	P2005738	VOCs	--
KAFB-106125-150	SV125-150-204	10/5/2020	P2005738	VOCs	--
KAFB-106125-250	SV125-250-204	10/5/2020	P2005738	VOCs	--
KAFB-106125-350	SV125-350-204	10/5/2020	P2005738	VOCs	--
KAFB-106125-450	SV125-450-204	10/5/2020	P2005738	VOCs	--
KAFB-106126-025	SV126-025-204	10/20/2020	P2006070	VOCs	--
KAFB-106126-050	SV126-050-204	10/20/2020	P2006070	VOCs	--
KAFB-106126-150	SV126-150-204	10/20/2020	P2006070	VOCs	--
KAFB-106126-250	SV126-250-204	10/20/2020	P2006070	VOCs	--
KAFB-106126-350	SV126-350-204	10/20/2020	P2006070	VOCs	--
KAFB-106126-450	SV126-450-204	10/20/2020	P2006070	VOCs	--
KAFB-106127-025	SV127-025-204	10/5/2020	P2005738	VOCs	--
KAFB-106127-050	SV127-050-204	10/5/2020	P2005738	VOCs	--
KAFB-106127-150	SV127-150-204	10/5/2020	P2005738	VOCs	--
KAFB-106127-250	SV127-250-204	10/5/2020	P2005742	VOCs	--
KAFB-106127-250	SV127-250-604	10/5/2020	P2005742	VOCs	Field Duplicate
KAFB-106127-350	SV127-350-204	10/5/2020	P2005742	VOCs	--
KAFB-106127-450	SV127-450-204	10/5/2020	P2005742	VOCs	--
KAFB-106128-025	SV128-025-204	10/6/2020	P2005748	VOCs	--
KAFB-106128-050	SV128-050-204	10/6/2020	P2005748	VOCs	--
KAFB-106128-150	SV128-150-204	10/6/2020	P2005748	VOCs	--
KAFB-106128-250	SV128-250-204	10/6/2020	P2005748	VOCs	--
KAFB-106128-350	SV128-350-204	10/6/2020	P2005748	VOCs	--
KAFB-106128-450	SV128-450-204	10/6/2020	P2005748	VOCs	--
KAFB-106129-025	SV129-025-204	10/19/2020	P2006070	VOCs	--
KAFB-106129-050	SV129-050-204	10/19/2020	P2006070	VOCs	--
KAFB-106129-150	SV129-150-204	10/19/2020	P2006070	VOCs	--
KAFB-106129-250	SV129-250-204	10/19/2020	P2006070	VOCs	--
KAFB-106129-350	SV129-350-204	10/19/2020	P2006070	VOCs	--
KAFB-106129-450	SV129-450-204	10/19/2020	P2006070	VOCs	--
KAFB-106130-025	SV130-025-204	10/20/2020	P2006070	VOCs	--
KAFB-106130-050	SV130-050-204	10/20/2020	P2006072	VOCs	--
KAFB-106130-150	SV130-150-204	10/20/2020	P2006072	VOCs	--
KAFB-106130-250	SV130-250-204	10/20/2020	P2006072	VOCs	--
KAFB-106130-350	SV130-350-204	10/20/2020	P2006072	VOCs	--
KAFB-106130-450	SV130-450-204	10/20/2020	P2006072	VOCs	--
KAFB-106130-450	SV130-450-604	10/20/2020	P2006072	VOCs	Field Duplicate

**Table D-1-1  
Soil Vapor Sample Collection Summary, Q4 2020**

<b>Sample Location ID</b>	<b>Field Sample ID</b>	<b>Sample Date</b>	<b>Delivery Group</b>	<b>Analytical Parameter<sup>a</sup></b>	<b>Comments</b>
KAFB-106131-025	SV131-025-204	10/19/2020	P2006072	VOCs	--
KAFB-106131-055	SV131-055-204	10/19/2020	P2006072	VOCs	--
KAFB-106131-150	SV131-150-204	10/19/2020	P2006072	VOCs	--
KAFB-106131-245	SV131-450-204	10/19/2020	P2006072	VOCs	--
KAFB-106131-350	SV131-350-204	10/19/2020	P2006072	VOCs	--
KAFB-106131-450	SV131-245-204	10/19/2020	P2006072	VOCs	--
KAFB-106132-025	SV132-025-204	10/12/2020	P2005895	VOCs	--
KAFB-106132-050	SV132-050-204	10/12/2020	P2005895	VOCs	--
KAFB-106132-175	SV132-175-204	10/12/2020	P2005895	VOCs	--
KAFB-106132-250	SV132-250-204	10/12/2020	P2005895	VOCs	--
KAFB-106132-350	SV132-350-204	10/12/2020	P2005895	VOCs	--
KAFB-106132-450	SV132-450-204	10/12/2020	P2005895	VOCs	--
KAFB-106133-025	SV133-025-204	10/6/2020	P2005748	VOCs	--
KAFB-106133-050	SV133-050-204	10/6/2020	P2005748	VOCs	--
KAFB-106133-170	SV133-170-204	10/6/2020	P2005748	VOCs	--
KAFB-106133-250	SV133-250-204	10/6/2020	P2005748	VOCs	--
KAFB-106133-250	SV133-250-604	10/6/2020	P2005748	VOCs	Field Duplicate
KAFB-106133-350	SV133-350-204	10/6/2020	P2005748	VOCs	--
KAFB-106133-450	SV133-450-204	10/6/2020	P2005748	VOCs	--
KAFB-106134-025	SV134-025-204	10/12/2020	P2005895	VOCs	--
KAFB-106134-050	SV134-050-204	10/12/2020	P2005896	VOCs	--
KAFB-106134-170	SV134-170-204	10/12/2020	P2005896	VOCs	--
KAFB-106134-250	SV134-250-204	10/12/2020	P2005896	VOCs	--
KAFB-106134-350	SV134-350-204	10/12/2020	P2005896	VOCs	--
KAFB-106134-350	SV134-350-604	10/12/2020	P2005896	VOCs	Field Duplicate
KAFB-106134-450	SV134-450-204	10/12/2020	P2005896	VOCs	--
KAFB-106135-025	SV135-025-204	10/12/2020	P2005896	VOCs	--
KAFB-106135-050	SV135-050-204	10/12/2020	P2005896	VOCs	--
KAFB-106135-150	SV135-150-204	10/12/2020	P2005896	VOCs	--
KAFB-106135-250	SV135-250-204	10/12/2020	P2005896	VOCs	--
KAFB-106135-250	SV135-250-604	10/12/2020	P2005896	VOCs	Field Duplicate
KAFB-106135-350	SV135-350-204	10/12/2020	P2005896	VOCs	--
KAFB-106135-450	SV135-450-204	10/12/2020	P2005896	VOCs	--
KAFB-106136-025	SV136-025-204	10/6/2020	P2005748	VOCs	--
KAFB-106136-050	SV136-050-204	10/6/2020	P2005748	VOCs	--
KAFB-106136-150	SV136-150-204	10/6/2020	P2005748	VOCs	--
KAFB-106136-250	SV136-250-204	10/6/2020	P2005748	VOCs	--
KAFB-106136-350	SV136-350-204	10/6/2020	P2005748	VOCs	--
KAFB-106136-450	SV136-450-204	10/6/2020	P2005748	VOCs	--
KAFB-106137-025	SV137-025-204	10/12/2020	P2005896	VOCs	--
KAFB-106137-050	SV137-050-204	10/12/2020	P2005896	VOCs	--
KAFB-106137-150	SV137-150-204	10/12/2020	P2005896	VOCs	--
KAFB-106137-250	SV137-250-204	10/12/2020	P2005896	VOCs	--
KAFB-106137-350	SV137-350-204	10/12/2020	P2005896	VOCs	--
KAFB-106137-450	SV137-450-204	10/12/2020	P2005896	VOCs	--
KAFB-106138-025	SV138-025-204	10/6/2020	P2005748	VOCs	--
KAFB-106138-050	SV138-050-204	10/6/2020	P2005749	VOCs	--
KAFB-106138-150	SV138-150-204	10/6/2020	P2005749	VOCs	--
KAFB-106138-150	SV138-150-604	10/6/2020	P2005749	VOCs	Field Duplicate
KAFB-106138-250	SV138-250-204	10/6/2020	P2005749	VOCs	--
KAFB-106138-350	SV138-350-204	10/6/2020	P2005749	VOCs	--
KAFB-106138-450	SV138-450-204	10/6/2020	P2005749	VOCs	--

**Table D-1-1  
Soil Vapor Sample Collection Summary, Q4 2020**

Sample Location ID	Field Sample ID	Sample Date	Delivery Group	Analytical Parameter <sup>a</sup>	Comments
KAFB-106139-025	SV139-025-204	10/12/2020	P2005896	VOCs	--
KAFB-106139-050	SV139-050-204	10/12/2020	P2005897	VOCs	--
KAFB-106139-050	SV139-050-604	10/12/2020	P2005897	VOCs	Field Duplicate
KAFB-106139-150	SV139-150-204	10/12/2020	P2005897	VOCs	--
KAFB-106139-250	SV139-250-204	10/12/2020	P2005897	VOCs	--
KAFB-106139-350	SV139-350-204	10/12/2020	P2005897	VOCs	--
KAFB-106139-450	SV139-450-204	10/12/2020	P2005897	VOCs	--
KAFB-106140-025	SV140-025-204	10/12/2020	P2005897	VOCs	--
KAFB-106140-050	SV140-050-204	10/12/2020	P2005897	VOCs	--
KAFB-106140-150	SV140-150-204	10/12/2020	P2005897	VOCs	--
KAFB-106140-250	SV140-250-204	10/12/2020	P2005897	VOCs	--
KAFB-106140-350	SV140-350-204	10/12/2020	P2005897	VOCs	--
KAFB-106140-450	SV140-450-204	10/12/2020	P2005897	VOCs	--
KAFB-106140-450	SV140-450-604	10/12/2020	P2005897	VOCs	Field Duplicate
KAFB-106141-025	SV141-025-204	10/6/2020	P2005749	VOCs	--
KAFB-106141-050	SV141-050-204	10/6/2020	P2005749	VOCs	--
KAFB-106141-170	SV141-170-204	10/6/2020	P2005749	VOCs	--
KAFB-106141-250	SV141-250-204	10/6/2020	P2005749	VOCs	--
KAFB-106141-350	SV141-350-204	10/6/2020	P2005749	VOCs	--
KAFB-106141-450	SV141-450-204	10/6/2020	P2005749	VOCs	--
KAFB-106142-030	SV142-030-204	10/5/2020	P2005742	VOCs	--
KAFB-106142-050	SV142-050-204	10/5/2020	P2005742	VOCs	--
KAFB-106142-170	SV142-170-204	10/5/2020	P2005742	VOCs	--
KAFB-106142-170	SV142-170-604	10/5/2020	P2005742	VOCs	Field Duplicate
KAFB-106142-250	SV142-250-204	10/5/2020	P2005742	VOCs	--
KAFB-106142-350	SV142-350-204	10/5/2020	P2005742	VOCs	--
KAFB-106142-450	SV142-450-204	10/5/2020	P2005742	VOCs	--
SVEW-06-060	SVE06-060-204	10/5/2020	P2005742	VOCs	--
SVEW-06-060	SVE06-060-604	10/5/2020	P2005742	VOCs	Field Duplicate
SVEW-07-160	SVE07-160-204	10/7/2020	P2005742	VOCs	--
SVEW-08-260	SVE08-260-204	10/7/2020	P2005742	VOCs	--
SVEW-09-460	SVE09-460-204	10/5/2020	P2005742	VOCs	--
SVEW-10-410	SVE10-410-204	10/19/2020	P2006072	VOCs	--
SVEW-10-410	SVE10-410-604	10/19/2020	P2006072	VOCs	Field Duplicate
SVEW-11-410	SVE11-410-204	10/19/2020	P2006072	VOCs	--
SVEW-11-410	SVE11-410-604	10/19/2020	P2006072	VOCs	Field Duplicate
SVEW-12-410	SVE12-410-204	10/13/2020	P2005897	VOCs	--
SVEW-13-410	SVE13-410-204	10/19/2020	P2006072	VOCs	--
SVMW-01-050	SV01-050-204	10/19/2020	P2006072	VOCs	--
SVMW-01-100	SV01-100-204	10/19/2020	P2006072	VOCs	--
SVMW-01-250	SV01-250-204	10/19/2020	P2006072	VOCs	--
SVMW-01-300	SV01-300-204	10/19/2020	P2006080	VOCs	--
SVMW-02-050	SV02-050-204	10/19/2020	P2006080	VOCs	--
SVMW-02-100	SV02-100-204	10/19/2020	P2006080	VOCs	--
SVMW-02-150	SV02-150-204	10/19/2020	P2006080	VOCs	--
SVMW-02-150	SV02-150-604	10/19/2020	P2006080	VOCs	Field Duplicate
SVMW-03-050	SV03-050-204	10/5/2020	P2005742	VOCs	--
SVMW-03-100	SV03-100-204	10/5/2020	P2005742	VOCs	--
SVMW-03-250	SV03-250-204	10/5/2020	P2005742	VOCs	--
SVMW-03-300	SV03-300-204	10/5/2020	P2005742	VOCs	--
SVMW-04-050	SV04-050-204	10/5/2020	P2005743	VOCs	--
SVMW-04-050	SV04-050-604	10/5/2020	P2005743	VOCs	Field Duplicate

**Table D-1-1  
Soil Vapor Sample Collection Summary, Q4 2020**

Sample Location ID	Field Sample ID	Sample Date	Delivery Group	Analytical Parameter <sup>a</sup>	Comments
SVMW-04-100	SV04-100-204	10/5/2020	P2005743	VOCs	--
SVMW-04-250	SV04-250-204	10/5/2020	P2005743	VOCs	--
SVMW-04-300	SV04-300-204	10/5/2020	P2005743	VOCs	--
SVMW-05-050	SV05-050-204	10/19/2020	P2006080	VOCs	--
SVMW-05-050	SV05-050-604	10/19/2020	P2006080	VOCs	Field Duplicate
SVMW-05-100	SV05-100-204	10/19/2020	P2006080	VOCs	--
SVMW-05-230	SV05-230-204	10/19/2020	P2006080	VOCs	--
SVMW-05-290	SV05-290-204	10/19/2020	P2006080	VOCs	--
SVMW-06-050	SV06-050-204	10/19/2020	P2006080	VOCs	--
SVMW-06-100	SV06-100-204	10/19/2020	P2006080	VOCs	--
SVMW-06-100	SV06-100-604	10/19/2020	P2006080	VOCs	Field Duplicate
SVMW-06-252	SV06-252-204	10/19/2020	P2006080	VOCs	--
SVMW-06-302	SV06-302-204	10/19/2020	P2006080	VOCs	--
SVMW-07-050	SV07-050-204	10/13/2020	P2005897	VOCs	--
SVMW-07-100	SV07-100-204	10/13/2020	P2005897	VOCs	--
SVMW-07-150	SV07-150-204	10/13/2020	P2005897	VOCs	--
SVMW-08-050	SV08-050-204	10/5/2020	P2005743	VOCs	--
SVMW-08-100	SV08-100-204	10/5/2020	P2005743	VOCs	--
SVMW-08-250	SV08-250-204	10/5/2020	P2005743	VOCs	--
SVMW-09-050	SV09-050-204	10/5/2020	P2005743	VOCs	--
SVMW-09-100	SV09-100-204	10/5/2020	P2005743	VOCs	--
SVMW-09-250	SV09-250-204	10/5/2020	P2005743	VOCs	--
SVMW-09-266	SV09-266-204	10/5/2020	P2005743	VOCs	--
SVMW-12-150	SV12-150-204	10/19/2020	P2006080	VOCs	--
SVMW-12-250	SV12-250-204	10/19/2020	P2006080	VOCs	--
SVMW-12-350	SV12-350-204	10/19/2020	P2006080	VOCs	--
SVMW-12-450	SV12-450-204	10/19/2020	P2006080	VOCs	--
SVMW-13-150	SV13-150-204	10/19/2020	P2006080	VOCs	--
SVMW-13-250	SV13-250-204	10/19/2020	P2006080	VOCs	--
SVMW-13-350	SV13-350-204	10/19/2020	P2006080	VOCs	--
SVMW-13-450	SV13-450-204	10/19/2020	P2006080	VOCs	--
SVMW-14-150	SV14-150-204	10/13/2020	P2005749	VOCs	--
SVMW-14-250	SV14-250-204	10/13/2020	P2005897	VOCs	--
SVMW-14-350	SV14-350-204	10/13/2020	P2005897	VOCs	--
SVMW-14-450	SV14-450-204	10/13/2020	P2005897	VOCs	--
SVMW-14-450	SV14-450-604	10/13/2020	P2005897	VOCs	Field Duplicate
SVMW-15-150	SV15-150-204	10/19/2020	P2006080	VOCs	--
SVMW-15-250	SV15-250-204	10/19/2020	P2006080	VOCs	--
SVMW-15-350	SV15-350-204	10/19/2020	P2006080	VOCs	--
SVMW-15-450	SV15-450-204	10/19/2020	P2006080	VOCs	--
Trip Blank	SVTB204-01	10/7/2020	P2005748	VOCs	--
Trip Blank	SVTB204-02	10/13/2020	P2005897	VOCs	--
Trip Blank	SVTB204-03	10/21/2020	P2006080	VOCs	--

<sup>a</sup> VOCs analyzed in accordance with EPA Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Method TO-15.

-- = no comments

EPA = U.S. Environmental Protection Agency

ID = Identification

VOC = Volatile organic compound

**Table D-1-2  
Data Qualification Flags and Reason Codes**

**Data Qualifier Definitions for Data Validation**

<b>Qualifier</b>	<b>Definition</b>
	<b>No Qualifier</b> indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the detection limit. The value associated with the U-qualifier is the limit of detection.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated, although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The analyte was analyzed for, but the presence <u>or</u> absence of the analyte has not been verified. Re-sampling and re-analysis may be necessary to confirm or deny the presence of the analyte. Results are rejected, and data are <u>unusable</u> for any purposes.
X	The sample results were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project QC criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (includes project chemist).

**Reason Codes for Data Validation**

<b>Reason Code</b>	<b>Description</b>
CB/CCB	Calibration blank or continuing calibration blank outside of control limits
CCV	Calibration verification outside of control limits
EB	Equipment rinse blank contamination
FB	Field blank contamination
FD	Field duplicate sample results out of control criteria
HT	Holding time exceedance
ICS	Interference check sample
LCS	Laboratory control sample recovery out of control criteria
MB	Method blank contamination
MS/MSD	Matrix spike/matrix spike duplicate recovery outside of control criteria
RPD	Relative percent difference outside of control limits
SD	Inductively coupled plasma serial dilution out of control criteria
SURR	Surrogate recovery outside of control limits
TB	Trip blank contamination

**Table D-1-3  
Qualified Sample Results, Q4 2020**

<b>Well Location ID</b>	<b>Sample Name</b>	<b>Sample Delivery Group</b>	<b>Collection Method</b>	<b>Sample Type</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Validation Reason Code</b>
KAFB-106111-050	SV111-050-204	P2005743	SUMMA	N	Xylenes, total	J	Field Duplicate
KAFB-106111-050	SV111-050-204	P2005743	SUMMA	N	n-Heptane	J	Field Duplicate
KAFB-106111-050	SV111-050-204	P2005743	SUMMA	N	2-Butanone	J	Field Duplicate
KAFB-106111-050	SV111-050-204	P2005743	SUMMA	N	Carbon disulfide	J	Field Duplicate
KAFB-106111-050	SV111-050-604	P2005743	SUMMA	FD	Xylenes, total	J	Field Duplicate
KAFB-106111-050	SV111-050-604	P2005743	SUMMA	FD	n-Heptane	J	Field Duplicate
KAFB-106111-050	SV111-050-604	P2005743	SUMMA	FD	2-Butanone	J	Field Duplicate
KAFB-106111-050	SV111-050-604	P2005743	SUMMA	FD	Carbon disulfide	J	Field Duplicate
KAFB-106113-020	SV113-020-204	P2005893	SUMMA	N	Ethyl acetate	J	Data verification - LCS
KAFB-106113-250	SV113-250-204	P2005893	SUMMA	N	Ethyl acetate	J	Data verification - LCS
KAFB-106114-250	SV114-250-204	P2005744	SUMMA	N	Toluene	J	Field Duplicate
KAFB-106114-250	SV114-250-604	P2005744	SUMMA	FD	Toluene	J	Field Duplicate
KAFB-106116-350	SV116-350-204	P2005744	SUMMA	N	Dichlorodifluoromethane	J	Field Duplicate
KAFB-106116-350	SV116-350-604	P2005744	SUMMA	FD	Dichlorodifluoromethane	J	Field Duplicate
KAFB-106120-025	SV120-025-204	P2005894	SUMMA	N	Chloromethane	UJ	Data verification - CCV
KAFB-106120-350	SV120-350-204	P2005894	SUMMA	N	Chloromethane	UJ	Data verification - CCV
KAFB-106120-450	SV120-450-204	P2005894	SUMMA	N	Chloromethane	J	Data verification - CCV
KAFB-106121-145	SV121-145-204	P2005894	SUMMA	N	Chloromethane	UJ	Data verification - CCV
KAFB-106121-250	SV121-250-204	P2005894	SUMMA	N	Chloromethane	UJ	Data verification - CCV
KAFB-106121-350	SV121-350-204	P2005894	SUMMA	N	Chloromethane	J	Data verification - CCV
KAFB-106122-025	SV122-025-204	P2005895	SUMMA	N	Ethyl acetate	J	Data verification - LCS
KAFB-106122-150	SV122-150-204	P2005895	SUMMA	N	Ethyl acetate	J	Data verification - LCS
KAFB-106122-350	SV122-350-204	P2005895	SUMMA	N	Ethyl acetate	J	Data verification - LCS
KAFB-106128-025	SV128-025-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106128-025	SV128-025-204	P2005748	SUMMA	N	Acetone	U	Trip Blank Contamination
KAFB-106128-025	SV128-025-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106128-050	SV128-050-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106128-050	SV128-050-204	P2005748	SUMMA	N	Acetone	U	Trip Blank Contamination
KAFB-106128-050	SV128-050-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106128-150	SV128-150-204	P2005748	SUMMA	N	Styrene	U	Trip Blank Contamination
KAFB-106128-150	SV128-150-204	P2005748	SUMMA	N	Ethyl acetate	U	Trip Blank Contamination

**Table D-1-3  
Qualified Sample Results, Q4 2020**

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106128-150	SV128-150-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106128-150	SV128-150-204	P2005748	SUMMA	N	Isopropyl alcohol	U	Trip Blank Contamination
KAFB-106128-150	SV128-150-204	P2005748	SUMMA	N	Acetone	U	Trip Blank Contamination
KAFB-106128-150	SV128-150-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106133-025	SV133-025-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106133-025	SV133-025-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106133-050	SV133-050-204	P2005748	SUMMA	N	Toluene	U	Trip Blank Contamination
KAFB-106133-050	SV133-050-204	P2005748	SUMMA	N	Ethyl acetate	U	Trip Blank Contamination
KAFB-106133-050	SV133-050-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106133-050	SV133-050-204	P2005748	SUMMA	N	Isopropyl alcohol	U	Trip Blank Contamination
KAFB-106133-050	SV133-050-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106133-170	SV133-170-204	P2005748	SUMMA	N	Toluene	U	Trip Blank Contamination
KAFB-106133-170	SV133-170-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106133-170	SV133-170-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106133-250	SV133-250-204	P2005748	SUMMA	N	Tetrachloroethene	J	Field Duplicate
KAFB-106133-250	SV133-250-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106133-250	SV133-250-204	P2005748	SUMMA	N	Acetone	U	Trip Blank Contamination
KAFB-106133-250	SV133-250-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106133-250	SV133-250-204	P2005748	SUMMA	N	Trichloroethene	J	Field Duplicate
KAFB-106133-250	SV133-250-604	P2005748	SUMMA	FD	Tetrachloroethene	J	Field Duplicate
KAFB-106133-250	SV133-250-604	P2005748	SUMMA	FD	2-Butanone	U	Trip Blank Contamination
KAFB-106133-250	SV133-250-604	P2005748	SUMMA	FD	Trichloroethene	J	Field Duplicate
KAFB-106133-350	SV133-350-204	P2005748	SUMMA	N	Styrene	U	Trip Blank Contamination
KAFB-106133-350	SV133-350-204	P2005748	SUMMA	N	Toluene	U	Trip Blank Contamination
KAFB-106133-350	SV133-350-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106133-350	SV133-350-204	P2005748	SUMMA	N	Isopropyl alcohol	U	Trip Blank Contamination
KAFB-106136-025	SV136-025-204	P2005748	SUMMA	N	Toluene	U	Trip Blank Contamination
KAFB-106136-025	SV136-025-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106136-025	SV136-025-204	P2005748	SUMMA	N	Isopropyl alcohol	U	Trip Blank Contamination
KAFB-106136-025	SV136-025-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106136-050	SV136-050-204	P2005748	SUMMA	N	Styrene	U	Trip Blank Contamination

**Table D-1-3  
Qualified Sample Results, Q4 2020**

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106136-050	SV136-050-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106136-050	SV136-050-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106136-150	SV136-150-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106136-150	SV136-150-204	P2005748	SUMMA	N	Acetone	U	Trip Blank Contamination
KAFB-106136-150	SV136-150-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106136-250	SV136-250-204	P2005748	SUMMA	N	Styrene	U	Trip Blank Contamination
KAFB-106136-250	SV136-250-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106136-250	SV136-250-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106136-350	SV136-350-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106136-350	SV136-350-204	P2005748	SUMMA	N	Acetone	U	Trip Blank Contamination
KAFB-106136-350	SV136-350-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106136-450	SV136-450-204	P2005748	SUMMA	N	Toluene	U	Trip Blank Contamination
KAFB-106136-450	SV136-450-204	P2005748	SUMMA	N	Ethanol	U	Trip Blank Contamination
KAFB-106136-450	SV136-450-204	P2005748	SUMMA	N	Acetone	U	Trip Blank Contamination
KAFB-106136-450	SV136-450-204	P2005748	SUMMA	N	2-Butanone	U	Trip Blank Contamination
KAFB-106138-025	SV138-025-204	P2005748	SUMMA	N	Toluene	U	Trip Blank Contamination
KAFB-106138-150	SV138-150-204	P2005749	SUMMA	N	Carbon disulfide	J	Field Duplicate
KAFB-106138-150	SV138-150-604	P2005749	SUMMA	FD	Carbon disulfide	J	Field Duplicate
KAFB-106138-250	SV138-250-204	P2005749	SUMMA	N	Ethyl acetate	J	Data verification - LCS
KAFB-106141-025	SV141-025-204	P2005749	SUMMA	N	Ethyl acetate	J	Data verification - LCS
KAFB-106141-250	SV141-250-204	P2005749	SUMMA	N	Ethyl acetate	J	Data verification - LCS
KAFB-106141-350	SV141-350-204	P2005749	SUMMA	N	Ethyl acetate	J	Data verification - LCS
SVEW-06-060	SVE06-060-204	P2005742	SUMMA	N	Ethylbenzene	J	Field Duplicate
SVEW-06-060	SVE06-060-204	P2005742	SUMMA	N	1,3,5-Trimethylbenzene	J	Field Duplicate
SVEW-06-060	SVE06-060-204	P2005742	SUMMA	N	Xylenes, total	J	Field Duplicate
SVEW-06-060	SVE06-060-204	P2005742	SUMMA	N	m- & p-Xylenes	J	Field Duplicate
SVEW-06-060	SVE06-060-204	P2005742	SUMMA	N	o-Xylene	J	Field Duplicate
SVEW-06-060	SVE06-060-204	P2005742	SUMMA	N	1,2,4-Trimethylbenzene	J	Field Duplicate
SVEW-06-060	SVE06-060-604	P2005742	SUMMA	FD	Ethylbenzene	J	Field Duplicate
SVEW-06-060	SVE06-060-604	P2005742	SUMMA	FD	1,3,5-Trimethylbenzene	J	Field Duplicate
SVEW-06-060	SVE06-060-604	P2005742	SUMMA	FD	Xylenes, total	J	Field Duplicate

**Table D-1-3  
Qualified Sample Results, Q4 2020**

<b>Well Location ID</b>	<b>Sample Name</b>	<b>Sample Delivery Group</b>	<b>Collection Method</b>	<b>Sample Type</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Validation Reason Code</b>
SVEW-06-060	SVE06-060-604	P2005742	SUMMA	FD	m- & p-Xylenes	J	Field Duplicate
SVEW-06-060	SVE06-060-604	P2005742	SUMMA	FD	o-Xylene	J	Field Duplicate
SVEW-06-060	SVE06-060-604	P2005742	SUMMA	FD	1,2,4-Trimethylbenzene	J	Field Duplicate
SVMW-04-050	SV04-050-204	P2005743	SUMMA	N	Benzene	J	Field Duplicate
SVMW-04-050	SV04-050-604	P2005743	SUMMA	FD	Benzene	J	Field Duplicate

FD = field duplicate

ID = identification

LCS = laboratory control sample

N = normal field sample

RPD = relative percent difference

Qualifiers:

J = Qualifier denotes the analyte was positively identified, but the associated numerical value is estimated.

U = Qualifier denotes the analyte was analyzed for but was not detected above the detection limit.

**Table D-1-4  
Field Quality Control Sample Results – Soil Vapor, Q4 2020**

		Field Sample ID:	SVTB204-01			SVTB204-02			SVTB204-03		
		Sample Date:	10/7/2020			10/13/2020			10/21/2020		
		Sample Type:	TB			TB			TB		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method TO-15 (µg/m <sup>3</sup> )	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	U	0.43	ND	U	0.43	ND	U	0.43
		1,1-Dichloroethane	ND	U	0.83	ND	U	0.83	ND	U	0.83
		1,2,4-Trichlorobenzene	ND	U	0.8	ND	U	0.8	ND	U	0.8
		1,2,4-Trimethylbenzene	ND	U	0.43	ND	U	0.43	ND	U	0.43
		1,2-Dibromoethane	ND	U	0.43	ND	U	0.43	ND	U	0.43
		1,2-Dichloroethane	ND	U	0.43	ND	U	0.43	ND	U	0.43
		1,3,5-Trimethylbenzene	ND	U	0.43	ND	U	0.43	ND	U	0.43
		1,3-Butadiene	ND	U	0.8	ND	U	0.8	ND	U	0.8
		1,4-Dioxane	ND	U	0.43	ND	U	0.43	ND	U	0.43
		2-Butanone	2.9	--	0.8	0.56	J	0.8	1.6	J	0.8
		2-Hexanone	0.25	J	0.43	ND	U	0.43	0.29	J	0.43
		4-Methyl-2-pentanone	ND	U	0.43	ND	U	0.43	ND	U	0.43
		Acetone	6.0	J	6.8	ND	U	6.8	7.3	J	6.8
		Benzene	ND	U	0.43	ND	U	0.43	0.49	J	0.43
		Bromodichloromethane	ND	U	0.43	ND	U	0.43	ND	U	0.43
		Bromoform	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Carbon disulfide	ND	U	1.4	ND	U	1.4	ND	U	1.4
		Carbon tetrachloride	ND	U	0.43	ND	U	0.43	ND	U	0.43
		Chloroethane	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Chloroform	ND	U	0.43	ND	U	0.43	ND	U	0.43
		Chloromethane	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Cyclohexane	ND	U	0.85	ND	U	0.85	ND	U	0.85
		Dibromochloromethane	ND	U	0.43	ND	U	0.43	ND	U	0.43
		Dichlorodifluoromethane	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Ethanol	9.3	J	2.1	1.7	J	2.1	8	J	2.1
		Ethyl acetate	1.2	J	1.6	ND	U	1.6	48	--	1.6
		Ethylbenzene	ND	U	0.43	ND	U	0.43	ND	U	0.43
		Hexane	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Isopropyl alcohol	0.71	J	1.6	ND	U	1.6	0.94	J	1.6
		m- & p-Xylenes	ND	U	0.85	ND	U	0.85	ND	U	0.85
		Methylene chloride	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Naphthalene	ND	U	0.78	ND	U	0.78	ND	U	0.78
		n-Heptane	ND	U	0.8	ND	U	0.8	ND	U	0.8
o-Xylene	ND	U	0.43	ND	U	0.43	ND	U	0.43		
Propylene (propene)	ND	U	0.8	ND	U	0.8	0.49	J	0.8		
Styrene	0.51	J	0.8	0.26	J	0.8	ND	U	0.8		
Tetrachloroethene	ND	U	0.43	ND	U	0.43	ND	U	0.43		
Tetrahydrofuran	ND	U	0.43	ND	U	0.43	ND	U	0.43		
Toluene	0.86	J	0.43	ND	U	0.43	0.94	J	0.43		
Trichloroethene	ND	U	0.43	ND	U	0.43	ND	U	0.43		
Trichlorofluoromethane	ND	U	0.8	ND	U	0.8	ND	U	0.8		
Vinyl chloride	ND	U	0.43	0.15	J	0.43	ND	U	0.43		
Xylenes, total	ND	U	0.85	ND	U	0.85	ND	U	0.85		

**Table D-1-4**  
**Field Quality Control Sample Results – Soil Vapor, Q4 2020**

-- = Parameter or analyte not required for analysis or no qualifier required

ID = identification

LOD = limit of detection

ND = not detected above the detection limit

Val Qual = validation qualifier

VOC = volatile organic compound

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter

Shading = detected concentrations above the detection limit

Qualifiers:

Val Qual based on independent data validation.

J = Qualifier denotes the analyte was positively identified, but the associated numerical value is estimated.

U = Qualifier denotes the analyte was analyzed but not detected above the detection limit. The value associated with the U-qualifier is the LOD.

-- = Validation qualifier not assigned.

**Table D-1-5  
Field Duplicate Sample Results – Soil Vapor, Q4 2020**

		Well Location ID:	KAFB-106108-350			KAFB-106108-350			KAFB-106109-450			KAFB-106109-450			KAFB-106110-250			KAFB-106110-250		
		Field Sample ID:	SV108-350-204			SV108-350-604			SV109-450-204			SV109-450-604			SV110-250-204			SV110-250-604		
		Sample Date:	10/19/2020			10/30/2020			10/13/2020			10/13/2020			10/13/2020			10/13/2020		
		Sample Type:	REG			Field Duplicate			REG			Field Duplicate			REG			Field Duplicate		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method TO-15 (µg/m³)	1,1,2-Trichloro-1,2,2-trifluoroethane	2,300	--	7.4	2,300	--	15	6.2	--	0.81	6.9	--	0.74	ND	U	3,100	ND	U	2,700
		1,1-Dichloroethane	ND	U	5.7	ND	U	5.7	4.2	--	1.6	4.8	--	1.4	ND	U	5,900	ND	U	5,200
		1,2,4-Trichlorobenzene	ND	U	5.5	ND	U	5.5	ND	U	1.5	ND	U	1.4	ND	U	5,800	ND	U	5,100
		1,2,4-Trimethylbenzene	ND	U	2.9	110	--	2.9	1.1	J	0.81	0.67	J	0.74	ND	U	3,100	ND	U	2,700
		1,2-Dibromoethane	ND	U	2.9	ND	U	2.9	ND	U	0.81	ND	U	0.74	ND	U	3,100	ND	U	2,700
		1,2-Dichloroethane	ND	U	2.9	ND	U	2.9	2.2	J	0.81	2.6	--	0.74	ND	U	3,100	ND	U	2,700
		1,3,5-Trimethylbenzene	ND	U	2.9	30	--	2.9	ND	U	0.81	ND	U	0.74	ND	U	3,100	ND	U	2,700
		1,3-Butadiene	ND	U	5.5	ND	U	5.5	ND	U	1.5	ND	U	1.4	ND	U	5,800	ND	U	5,100
		1,4-Dioxane	ND	U	2.9	ND	U	2.9	ND	U	0.81	1.9	J	0.74	ND	U	3,100	ND	U	2,700
		2-Butanone	ND	U	5.5	27	--	5.5	4.8	--	1.5	11	--	1.4	ND	U	5,800	ND	U	5,100
		2-Hexanone	ND	U	2.9	ND	U	2.9	ND	U	0.81	2.2	J	0.74	ND	U	3,100	ND	U	2,700
		4-Methyl-2-pentanone	ND	U	2.9	ND	U	2.9	ND	U	0.81	ND	U	0.74	ND	U	3,100	ND	U	2,700
		Acetone	ND	U	47	220	--	46	19	J	13	21	J	12	ND	U	49,000	ND	U	43,000
		Benzene	3.7	J	2.9	4	J	2.9	5.9	--	0.81	6.3	--	0.74	66,000	--	3,100	61,000	--	2,700
		Bromodichloromethane	ND	U	2.9	ND	U	2.9	ND	U	0.81	ND	U	0.74	ND	U	3,100	ND	U	2,700
		Bromoform	ND	U	5.5	ND	U	5.5	ND	U	1.5	ND	U	1.4	ND	U	5,800	ND	U	5,100
		Carbon disulfide	18	--	9.3	29	--	9.3	72	--	2.6	81	--	2.3	ND	U	9,700	ND	U	8,500
		Carbon tetrachloride	80	--	2.9	88	--	2.9	1.5	J	0.81	1.7	J	0.74	ND	U	3,100	ND	U	2,700
		Chloroethane	ND	U	5.5	ND	U	5.5	5.6	--	1.5	6.8	--	1.4	ND	U	5,800	ND	U	5,100
		Chloroform	8.9	J	2.9	8	J	2.9	ND	U	0.81	ND	U	0.74	ND	U	3,100	ND	U	2,700
		Chloromethane	ND	U	5.5	ND	U	5.5	19	--	1.5	21	--	1.4	ND	U	5,800	ND	U	5,100
		Cyclohexane	910	--	5.9	480	--	5.8	2.3	J	1.6	1.6	J	1.5	1,200,000	--	6,100	1,100,000	--	5,400
		Dibromochloromethane	ND	U	2.9	ND	U	2.9	ND	U	0.81	ND	U	0.74	ND	U	3,100	ND	U	2,700
		Dichlorodifluoromethane	8.9	J	5.5	8.7	J	5.5	1.4	J	1.5	1.3	J	1.4	ND	U	5,800	ND	U	5,100
		Ethanol	ND	U	14	ND	U	14	ND	U	3.9	4.9	J	3.6	ND	U	15,000	ND	U	13,000
		Ethyl acetate	ND	U	11	ND	U	11	ND	U	3.1	ND	U	2.8	ND	U	12,000	ND	U	10,000
		Ethylbenzene	ND	U	2.9	33	--	2.9	0.61	J	0.81	0.62	J	0.74	ND	U	3,100	ND	U	2,700
		Hexane	130	--	5.5	63	--	5.5	6.8	--	1.5	2.7	--	1.4	1,500,000	--	5,800	1,400,000	--	5,100
		Isopropyl alcohol	ND	U	11	4.8	J	11	ND	U	3	ND	U	2.7	ND	U	11,000	ND	U	10,000
		m- & p-Xylenes	ND	U	5.9	110	--	5.8	3	J	1.6	2.4	J	1.5	13,000	J	6,100	14,000	J	5,400
		Methylene chloride	ND	U	5.5	ND	U	5.5	ND	U	1.5	ND	U	1.4	ND	U	5,800	ND	U	5,100
		Naphthalene	ND	U	5.4	41	--	5.3	ND	U	1.5	ND	U	1.3	ND	U	5,600	ND	U	4,900
		n-Heptane	23	--	5.5	100	--	5.5	11	--	1.5	3.2	--	1.4	1,300,000	--	5,800	1,200,000	--	5,100
		o-Xylene	3.1	J	2.9	41	--	2.9	0.87	J	0.81	0.77	J	0.74	2,900	J	3,100	3,300	J	2,700
		Propylene (propene)	22	--	5.5	23	--	5.5	3.5	--	1.5	4.2	--	1.4	18,000	--	5,800	16,000	--	5,100
		Styrene	ND	U	5.5	ND	U	5.5	ND	U	1.5	ND	U	1.4	ND	U	5,800	ND	U	5,100
		Tetrachloroethene	18	--	2.9	18	--	2.9	1	J	0.81	1.1	J	0.74	ND	U	3,100	ND	U	2,700
		Tetrahydrofuran	4.9	J	2.9	1.3	J	2.9	22	--	0.81	24	--	0.74	ND	U	3,100	ND	U	2,700
		Toluene	5.2	J	2.9	98	--	2.9	16	--	0.81	16	--	0.74	80,000	--	3,100	75,000	--	2,700
		Trichloroethene	6.6	J	2.9	11	--	2.9	8.6	--	0.81	9.6	--	0.74	ND	U	3,100	ND	U	2,700
Trichlorofluoromethane	19	--	5.5	20	--	5.5	ND	U	1.5	ND	U	1.4	ND	U	5,800	ND	U	5,100		
Vinyl chloride	ND	U	2.9	ND	U	2.9	7.1	--	0.81	8.2	--	0.74	ND	U	3,100	ND	U	2,700		
Xylenes, total	3.1	J	5.9	150	--	5.8	3.9	J	1.6	3.2	J	1.5	16,000	J	6,100	17,000	--	5,400		

**Table D-1-5  
Field Duplicate Sample Results – Soil Vapor, Q4 2020**

		Well Location ID:	KAFB-106111-050			KAFB-106111-050			KAFB-106112-450			KAFB-106112-450			KAFB-106114-250			KAFB-106114-250		
		Field Sample ID:	SV111-050-204			SV111-050-604			SV112-450-204			SV112-450-604			SV114-250-204			SV114-250-604		
		Sample Date:	10/6/2020			10/6/2020			10/19/2020			10/19/2020			10/6/2020			10/6/2020		
		Sample Type:	REG			Field Duplicate			REG			Field Duplicate			REG			Field Duplicate		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method TO-15 (µg/m³)	1,1,2-Trichloro-1,2,2-trifluoroethane	53	--	0.8	53	--	0.78	71	--	4.6	38	--	2.6	28	--	1.1	28	--	0.83
		1,1-Dichloroethane	ND	U	1.6	ND	U	1.5	ND	U	8.9	ND	U	5.1	ND	U	2.2	ND	U	1.6
		1,2,4-Trichlorobenzene	ND	U	1.5	ND	U	1.5	ND	U	8.6	ND	U	5	ND	U	2.1	ND	U	1.6
		1,2,4-Trimethylbenzene	4.4	--	0.8	9.6	--	0.78	300	--	4.6	160	--	2.6	1.5	J	1.1	4.5	--	0.83
		1,2-Dibromoethane	ND	U	0.8	ND	U	0.78	20	--	4.6	ND	U	2.6	ND	U	1.1	0.33	J	0.83
		1,2-Dichloroethane	ND	U	0.8	ND	U	0.78	ND	U	4.6	ND	U	2.6	ND	U	1.1	0.67	J	0.83
		1,3,5-Trimethylbenzene	1.4	J	0.8	2.9	--	0.78	280	--	4.6	150	--	2.6	ND	U	1.1	1.3	J	0.83
		1,3-Butadiene	ND	U	1.5	ND	U	1.5	ND	U	8.6	ND	U	5	ND	U	2.1	ND	U	1.6
		1,4-Dioxane	ND	U	0.8	ND	U	0.78	ND	U	4.6	ND	U	2.6	ND	U	1.1	0.85	J	0.83
		2-Butanone	5.7	J	1.5	26	J	1.5	14	J	8.6	22	--	5	1.7	J	2.1	13	--	1.6
		2-Hexanone	ND	U	0.8	ND	U	0.78	ND	U	4.6	ND	U	2.6	ND	U	1.1	ND	U	0.83
		4-Methyl-2-pentanone	ND	U	0.8	ND	U	0.78	ND	U	4.6	ND	U	2.6	ND	U	1.1	0.82	J	0.83
		Acetone	38	--	13	52	--	12	ND	U	73	ND	U	42	8.6	J	18	46	--	13
		Benzene	1.1	J	0.8	1.5	J	0.78	2,400	--	4.6	1,300	--	2.6	1.1	J	1.1	4.5	--	0.83
		Bromodichloromethane	ND	U	0.8	ND	U	0.78	ND	U	4.6	ND	U	2.6	ND	U	1.1	0.72	J	0.83
		Bromoform	ND	U	1.5	ND	U	1.5	ND	U	8.6	ND	U	5	ND	U	2.1	2.5	J	1.6
		Carbon disulfide	38	--	2.5	8.5	--	2.5	51	--	15	29	--	8.4	5.5	J	3.6	8.8	--	2.6
		Carbon tetrachloride	51	--	0.8	51	--	0.78	21	--	4.6	11	--	2.6	36	--	1.1	36	--	0.83
		Chloroethane	ND	U	1.5	ND	U	1.5	1.9	J	8.6	ND	U	5	ND	U	2.1	1	J	1.6
		Chloroform	ND	U	0.8	ND	U	0.78	ND	U	4.6	ND	U	2.6	5.6	--	1.1	7.5	--	0.83
		Chloromethane	0.68	J	1.5	0.71	J	1.5	7.3	J	8.6	5.4	J	5	ND	U	2.1	8.3	--	1.6
		Cyclohexane	1.7	J	1.6	3	J	1.6	4,100	--	9.1	2,200	--	5.3	ND	U	2.3	2	J	1.7
		Dibromochloromethane	ND	U	0.8	ND	U	0.78	ND	U	4.6	ND	U	2.6	ND	U	1.1	0.68	J	0.83
		Dichlorodifluoromethane	21	--	1.5	21	--	1.5	16	--	8.6	10	--	5	340	--	2.1	340	--	1.6
		Ethanol	4.1	J	3.9	15	J	3.8	ND	U	22	14	J	13	2.8	J	5.5	11	J	4
		Ethyl acetate	ND	U	3.1	2.9	J	3	ND	U	17	ND	U	10	ND	U	4.3	ND	U	3.2
		Ethylbenzene	0.65	J	0.8	1.4	J	0.78	280	--	4.6	150	--	2.6	0.93	J	1.1	4.1	--	0.83
		Hexane	1.2	J	1.5	2.5	--	1.5	2,200	--	8.6	1,100	--	5	ND	U	2.1	3.4	--	1.6
		Isopropyl alcohol	ND	U	3	2.7	J	2.9	15	J	17	7.7	J	9.8	ND	U	4.2	1.4	J	3.1
		m- & p-Xylenes	6.9	--	1.6	16	--	1.6	1,600	--	9.1	850	--	5.3	3.8	J	2.3	17	--	1.7
		Methylene chloride	ND	U	1.5	ND	U	1.5	ND	U	8.6	ND	U	5	ND	U	2.1	0.75	J	1.6
		Naphthalene	1.2	J	1.5	2	J	1.4	14	--	8.3	6.2	J	4.8	ND	U	2.1	2.2	J	1.5
		n-Heptane	3.6	J	1.5	7.9	J	1.5	1,500	--	8.6	840	--	5	0.97	J	2.1	6.6	--	1.6
		o-Xylene	2.5	J	0.8	5.5	--	0.78	890	--	4.6	480	--	2.6	1.3	J	1.1	4.9	--	0.83
		Propylene (propene)	1	J	1.5	1.3	J	1.5	43	--	8.6	23	--	5	ND	U	2.1	1.7	J	1.6
		Styrene	ND	U	1.5	ND	U	1.5	ND	U	8.6	ND	U	5	ND	U	2.1	ND	U	1.6
		Tetrachloroethene	6.1	--	0.8	6.2	--	0.78	2.4	J	4.6	1.4	J	2.6	0.67	J	1.1	0.73	J	0.83
		Tetrahydrofuran	2	J	0.8	3.3	J	0.78	4.4	J	4.6	3.4	J	2.6	1.7	J	1.1	3.1	J	0.83
		Toluene	2.8	--	0.8	5.7	--	0.78	3,700	--	16	2,200	--	9.8	6.1	J	1.1	30	J	0.83
		Trichloroethene	ND	U	0.8	ND	U	0.78	ND	U	4.6	ND	U	2.6	0.51	J	1.1	0.5	J	0.83
Trichlorofluoromethane	3	--	1.5	3.1	--	1.5	4.8	J	8.6	3.1	J	5	32	--	2.1	32	--	1.6		
Vinyl chloride	ND	U	0.8	ND	U	0.78	1.7	J	4.6	1.2	J	2.6	ND	U	1.1	ND	U	0.83		
Xylenes, total	9.4	J	1.6	21	J	1.6	2,500	--	9.1	1,300	--	5.3	5.1	J	2.3	22	--	1.7		

**Table D-1-5  
Field Duplicate Sample Results – Soil Vapor, Q4 2020**

		Well Location ID:	KAFB-106115-025			KAFB-106115-025			KAFB-106116-350			KAFB-106116-350			KAFB-106118-450			KAFB-106118-450		
		Field Sample ID:	SV115-025-204			SV115-025-604			SV116-350-204			SV116-350-604			SV118-450-204			SV118-450-604		
		Sample Date:	10/13/2020			10/13/2020			10/6/2020			10/6/2020			10/19/2020			10/19/2020		
		Sample Type:	REG			Field Duplicate			REG			Field Duplicate			REG			Field Duplicate		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method TO-15 (µg/m³)	1,1,2-Trichloro-1,2,2-trifluoroethane	0.48	J	0.79	0.57	J	0.84	31	J	13	19	J	17	17	J	8.9	21	J	29
		1,1-Dichloroethane	ND	U	1.5	ND	U	1.6	ND	U	26	ND	U	32	6.7	J	17	ND	U	56
		1,2,4-Trichlorobenzene	ND	U	1.5	ND	U	1.6	ND	U	25	ND	U	31	ND	U	17	ND	U	54
		1,2,4-Trimethylbenzene	3.6	--	0.79	6.3	--	0.84	ND	U	13	ND	U	17	ND	U	8.9	ND	U	29
		1,2-Dibromoethane	ND	U	0.79	ND	U	0.84	ND	U	13	ND	U	17	ND	U	8.9	ND	U	29
		1,2-Dichloroethane	ND	U	0.79	ND	U	0.84	ND	U	13	ND	U	17	ND	U	8.9	ND	U	29
		1,3,5-Trimethylbenzene	2.6	--	0.79	4.7	--	0.84	38	J	13	36	J	17	9.2	J	8.9	14	J	29
		1,3-Butadiene	ND	U	1.5	ND	U	1.6	ND	U	25	ND	U	31	ND	U	17	ND	U	54
		1,4-Dioxane	ND	U	0.79	ND	U	0.84	ND	U	13	ND	U	17	ND	U	8.9	ND	U	29
		2-Butanone	4	J	1.5	4	J	1.6	230	--	25	ND	U	31	ND	U	17	ND	U	54
		2-Hexanone	ND	U	0.79	ND	U	0.84	ND	U	13	ND	U	17	ND	U	8.9	ND	U	29
		4-Methyl-2-pentanone	ND	U	0.79	ND	U	0.84	ND	U	13	ND	U	17	ND	U	8.9	ND	U	29
		Acetone	15	J	13	18	J	13	ND	U	210	ND	U	260	ND	U	140	ND	U	460
		Benzene	0.73	J	0.79	1.9	J	0.84	450	--	13	400	--	17	69	--	8.9	84	J	29
		Bromodichloromethane	ND	U	0.79	ND	U	0.84	ND	U	13	ND	U	17	ND	U	8.9	ND	U	29
		Bromoform	ND	U	1.5	ND	U	1.6	ND	U	25	ND	U	31	ND	U	17	ND	U	54
		Carbon disulfide	0.75	J	2.5	1.3	J	2.7	ND	U	42	ND	U	53	350	--	28	360	--	91
		Carbon tetrachloride	1.5	J	0.79	1.5	J	0.84	15	J	13	ND	U	17	90	--	8.9	120	--	29
		Chloroethane	ND	U	1.5	ND	U	1.6	ND	U	25	ND	U	31	7.8	J	17	ND	U	54
		Chloroform	0.39	J	0.79	0.4	J	0.84	6.2	J	13	ND	U	17	9.1	J	8.9	ND	U	29
		Chloromethane	ND	U	1.5	ND	U	1.6	ND	U	25	ND	U	31	49	--	17	72	J	54
		Cyclohexane	ND	U	1.6	0.95	J	1.7	6,400	--	26	6,100	--	33	9,400	--	18	15,000	--	57
		Dibromochloromethane	ND	U	0.79	ND	U	0.84	ND	U	13	ND	U	17	ND	U	8.9	ND	U	29
		Dichlorodifluoromethane	2.4	--	1.5	2.5	J	1.6	320	J	25	180	J	31	4.5	J	17	ND	U	54
		Ethanol	10	J	3.9	12	J	4.1	440	--	64	ND	U	81	ND	U	43	ND	U	140
		Ethyl acetate	ND	U	3	ND	U	3.2	170	--	50	ND	U	64	ND	U	34	ND	U	110
		Ethylbenzene	0.98	J	0.79	1.8	J	0.84	ND	U	13	ND	U	17	13	J	8.9	19	J	29
		Hexane	ND	U	1.5	1	J	1.6	540	--	25	500	--	31	810	--	17	940	--	54
		Isopropyl alcohol	1	J	2.9	ND	U	3.1	130	--	49	ND	U	62	ND	U	33	ND	U	110
		m- & p-Xylenes	4.6	J	1.6	9.1	--	1.7	16	J	26	ND	U	33	23	J	18	34	J	57
		Methylene chloride	0.74	J	1.5	0.88	J	1.6	63	--	25	ND	U	31	ND	U	17	ND	U	54
		Naphthalene	0.77	J	1.4	0.86	J	1.5	ND	U	24	ND	U	30	ND	U	16	ND	U	52
		n-Heptane	0.92	J	1.5	2.5	J	1.6	ND	U	25	ND	U	31	11	J	17	18	J	54
		o-Xylene	2.3	J	0.79	4.2	--	0.84	32	J	13	29	J	17	20	J	8.9	28	J	29
		Propylene (propene)	1.2	J	1.5	1.4	J	1.6	180	--	25	120	--	31	29	--	17	33	J	54
		Styrene	ND	U	1.5	ND	U	1.6	ND	U	25	ND	U	31	ND	U	17	ND	U	54
		Tetrachloroethene	0.44	J	0.79	0.47	J	0.84	ND	U	13	ND	U	17	ND	U	8.9	ND	U	29
		Tetrahydrofuran	ND	U	0.79	ND	U	0.84	8.3	J	13	ND	U	17	68	--	8.9	85	J	29
		Toluene	5.3	--	0.79	12	--	0.84	18	J	13	11	J	17	350	--	8.9	510	--	29
		Trichloroethene	ND	U	0.79	ND	U	0.84	27	J	13	15	J	17	ND	U	8.9	ND	U	29
Trichlorofluoromethane	1.3	J	1.5	1.2	J	1.6	42	--	25	23	J	31	7.5	J	17	ND	U	54		
Vinyl chloride	ND	U	0.79	ND	U	0.84	ND	U	13	ND	U	17	11	J	8.9	12	J	29		
Xylenes, total	6.9	--	1.6	13	--	1.7	49	J	26	29	J	33	43	J	18	62	J	57		

**Table D-1-5  
Field Duplicate Sample Results – Soil Vapor, Q4 2020**

		Well Location ID:	KAFB-106120-025			KAFB-106120-025			KAFB-106121-145			KAFB-106121-145			KAFB-106124-250			KAFB-106124-250		
		Field Sample ID:	SV120-025-204			SV120-025-604			SV121-145-204			SV121-145-604			SV124-250-204			SV124-250-604		
		Sample Date:	10/12/2020			10/12/2020			10/12/2020			10/12/2020			10/5/2020			10/5/2020		
		Sample Type:	REG			Field Duplicate			REG			Field Duplicate			REG			Field Duplicate		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD									
VOCs	Method TO-15 (µg/m³)	1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	J	0.79	0.41	J	0.71	1.3	J	0.74	1.2	J	0.71	ND	U	1.1	ND	U	0.77
		1,1-Dichloroethane	ND	U	1.5	ND	U	1.4	ND	U	1.4	ND	U	1.4	ND	U	2.2	ND	U	1.5
		1,2,4-Trichlorobenzene	0.67	J	1.5	ND	U	1.3	ND	U	1.4	ND	U	1.3	ND	U	2.1	ND	U	1.4
		1,2,4-Trimethylbenzene	2.3	J	0.79	1	J	0.71	ND	U	0.74	2.3	--	0.71	4.1	--	1.1	5.5	--	0.77
		1,2-Dibromoethane	ND	U	0.79	ND	U	0.71	ND	U	0.74	ND	U	0.71	ND	U	1.1	ND	U	0.77
		1,2-Dichloroethane	ND	U	0.79	ND	U	0.71	ND	U	0.74	ND	U	0.71	ND	U	1.1	ND	U	0.77
		1,3,5-Trimethylbenzene	0.74	J	0.79	0.33	J	0.71	ND	U	0.74	0.67	J	0.71	0.67	J	1.1	0.81	J	0.77
		1,3-Butadiene	ND	U	1.5	ND	U	1.3	ND	U	1.4	ND	U	1.3	ND	U	2.1	ND	U	1.4
		1,4-Dioxane	1.1	J	0.79	ND	U	0.71	0.54	J	0.74	1	J	0.71	1.5	J	1.1	ND	U	0.77
		2-Butanone	5	--	1.5	2.2	J	1.3	7.6	--	1.4	5.5	--	1.3	4.8	J	2.1	1.2	J	1.4
		2-Hexanone	1.4	J	0.79	0.55	J	0.71	0.53	J	0.74	ND	U	0.71	1.1	J	1.1	ND	U	0.77
		4-Methyl-2-pentanone	ND	U	0.79	ND	U	0.71	ND	U	0.74	ND	U	0.71	0.56	J	1.1	ND	U	0.77
		Acetone	15	J	12	13	J	11	22	J	12	16	J	11	21	J	18	9.4	J	12
		Benzene	1.6	J	0.79	0.85	J	0.71	ND	U	0.74	0.92	J	0.71	ND	U	1.1	ND	U	0.77
		Bromodichloromethane	37	--	0.79	38	--	0.71	5.4	--	0.74	5.5	--	0.71	ND	U	1.1	ND	U	0.77
		Bromoform	ND	U	1.5	ND	U	1.3	ND	U	1.4	ND	U	1.3	ND	U	2.1	ND	U	1.4
		Carbon disulfide	25	--	2.5	1.8	J	2.3	16	--	2.4	23	--	2.3	120	--	3.6	14	--	2.4
		Carbon tetrachloride	1.2	J	0.79	1.1	J	0.71	19	--	0.74	19	--	0.71	4.3	--	1.1	4.4	--	0.77
		Chloroethane	ND	U	1.5	ND	U	1.3	ND	U	1.4	ND	U	1.3	ND	U	2.1	ND	U	1.4
		Chloroform	130	--	0.79	130	--	0.71	65	--	0.74	65	--	0.71	3.6	--	1.1	4.1	--	0.77
		Chloromethane	ND	UJ	1.5	ND	U	1.3	ND	UJ	1.4	ND	U	1.3	ND	U	2.1	0.49	J	1.4
		Cyclohexane	ND	U	1.6	ND	U	1.4	ND	U	1.5	ND	U	1.4	ND	U	2.2	ND	U	1.5
		Dibromochloromethane	1.2	J	0.79	1.3	J	0.71	ND	U	0.74	ND	U	0.71	ND	U	1.1	ND	U	0.77
		Dichlorodifluoromethane	2.3	J	1.5	2.2	--	1.3	22	--	1.4	22	--	1.3	0.8	J	2.1	0.84	J	1.4
		Ethanol	2.3	J	3.8	3.1	J	3.5	18	J	3.6	29	--	3.5	4.8	J	5.5	2.3	J	3.8
		Ethyl acetate	ND	U	3	ND	U	2.7	1.5	J	2.8	ND	U	2.7	ND	U	4.3	17	--	2.9
		Ethylbenzene	1.7	J	0.79	0.78	J	0.71	ND	U	0.74	0.91	J	0.71	ND	U	1.1	0.41	J	0.77
		Hexane	1.5	J	1.5	0.67	J	1.3	ND	U	1.4	0.51	J	1.3	ND	U	2.1	ND	U	1.4
		Isopropyl alcohol	ND	U	2.9	ND	U	2.6	ND	U	2.8	ND	U	2.6	ND	U	4.1	ND	U	2.9
		m- & p-Xylenes	7.6	--	1.6	3.2	J	1.4	ND	U	1.5	5.5	--	1.4	1	J	2.2	1.9	J	1.5
		Methylene chloride	ND	U	1.5	ND	U	1.3	ND	U	1.4	ND	U	1.3	ND	U	2.1	ND	U	1.4
		Naphthalene	1	J	1.4	ND	U	1.3	ND	U	1.4	ND	U	1.3	3.4	J	2	4.9	--	1.4
		n-Heptane	3	--	1.5	1.2	J	1.3	ND	U	1.4	0.75	J	1.3	ND	U	2.1	ND	U	1.4
		o-Xylene	2.2	J	0.79	1	J	0.71	ND	U	0.74	2.2	J	0.71	ND	U	1.1	0.62	J	0.77
		Propylene (propene)	0.79	J	1.5	0.69	J	1.3	0.69	J	1.4	0.89	J	1.3	ND	U	2.1	ND	U	1.4
		Styrene	0.69	J	1.5	ND	U	1.3	ND	U	1.4	ND	U	1.3	ND	U	2.1	ND	U	1.4
		Tetrachloroethene	1.8	J	0.79	1.7	J	0.71	3.3	--	0.74	3.2	--	0.71	0.55	J	1.1	0.48	J	0.77
		Tetrahydrofuran	4	J	0.79	1.4	J	0.71	36	--	0.74	36	--	0.71	4.9	J	1.1	7.5	--	0.77
		Toluene	10	--	0.79	5.3	--	0.71	0.54	J	0.74	4.6	--	0.71	0.76	J	1.1	2	J	0.77
		Trichloroethene	0.56	J	0.79	0.55	J	0.71	0.54	J	0.74	0.45	J	0.71	ND	U	1.1	ND	U	0.77
Trichlorofluoromethane	1.1	J	1.5	1	J	1.3	2	J	1.4	2	J	1.3	0.79	J	2.1	0.8	J	1.4		
Vinyl chloride	ND	U	0.79	ND	U	0.71	ND	U	0.74	ND	U	0.71	ND	U	1.1	ND	U	0.77		
Xylenes, total	9.7	--	1.6	4.2	J	1.4	ND	U	1.5	7.6	--	1.4	1	J	2.2	2.5	J	1.5		

**Table D-1-5  
Field Duplicate Sample Results – Soil Vapor, Q4 2020**

		Well Location ID:	KAFB-106127-250			KAFB-106127-250			KAFB-106130-450			KAFB-106130-450			KAFB-106133-250			KAFB-106133-250		
		Field Sample ID:	SV127-250-204			SV127-250-604			SV130-450-204			SV130-450-604			SV133-250-204			SV133-250-604		
		Sample Date:	10/5/2020			10/5/2020			10/20/2020			10/20/2020			10/6/2020			10/6/2020		
		Sample Type:	REG			Field Duplicate			REG			Field Duplicate			REG			Field Duplicate		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD															
VOCs	Method TO-15 (µg/m³)	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	U	0.85	ND	U	0.79	1.1	J	0.78	1	J	0.79	1	J	0.84	14	--	0.86
		1,1-Dichloroethane	ND	U	1.7	ND	U	1.5	1.7	J	1.5	1.7	J	1.5	ND	U	1.6	ND	U	1.7
		1,2,4-Trichlorobenzene	ND	U	1.6	ND	U	1.5	ND	U	1.5	ND	U	1.5	ND	U	1.6	ND	U	1.6
		1,2,4-Trimethylbenzene	0.8	J	0.85	2.9	--	0.79	4.4	--	0.78	4.3	--	0.79	ND	U	0.84	18	--	0.86
		1,2-Dibromoethane	ND	U	0.85	ND	U	0.79	0.93	J	0.78	0.96	J	0.79	ND	U	0.84	ND	U	0.86
		1,2-Dichloroethane	ND	U	0.85	ND	U	0.79	1.5	J	0.78	1.6	J	0.79	ND	U	0.84	ND	U	0.86
		1,3,5-Trimethylbenzene	ND	U	0.85	0.45	J	0.79	2.8	--	0.78	2.7	--	0.79	ND	U	0.84	6.7	--	0.86
		1,3-Butadiene	ND	U	1.6	ND	U	1.5	0.42	J	1.5	ND	U	1.5	ND	U	1.6	ND	U	1.6
		1,4-Dioxane	0.55	J	0.85	ND	U	0.79	0.38	J	0.78	1.3	J	0.79	0.47	J	0.84	ND	U	0.86
		2-Butanone	3.4	J	1.6	4.5	J	1.5	58	--	1.5	48	--	1.5	ND	U	1.6	ND	U	1.6
		2-Hexanone	0.8	J	0.85	0.74	J	0.79	2.3	J	0.78	2.1	J	0.79	ND	U	0.84	ND	U	0.86
		4-Methyl-2-pentanone	ND	U	0.85	ND	U	0.79	9	--	0.78	8.5	--	0.79	ND	U	0.84	ND	U	0.86
		Acetone	18	J	14	22	J	13	94	--	12	58	--	13	ND	U	13	120	--	14
		Benzene	0.39	J	0.85	ND	U	0.79	460	--	0.78	460	--	0.79	ND	U	0.84	4.6	--	0.86
		Bromodichloromethane	ND	U	0.85	ND	U	0.79	ND	U	0.78	ND	U	0.79	ND	U	0.84	ND	U	0.86
		Bromoform	ND	U	1.6	ND	U	1.5	ND	U	1.5	ND	U	1.5	ND	U	1.6	ND	U	1.6
		Carbon disulfide	16	--	2.7	16	--	2.5	110	--	2.5	120	--	2.5	9.8	--	2.7	14	--	2.7
		Carbon tetrachloride	4	--	0.85	4	--	0.79	ND	U	0.78	ND	U	0.79	2.9	--	0.84	6.9	--	0.86
		Chloroethane	ND	U	1.6	ND	U	1.5	2.2	J	1.5	2.1	J	1.5	ND	U	1.6	ND	U	1.6
		Chloroform	3.7	--	0.85	4.1	--	0.79	ND	U	0.78	ND	U	0.79	ND	U	0.84	2.3	J	0.86
		Chloromethane	ND	U	1.6	0.45	J	1.5	3.5	--	1.5	5.5	--	1.5	ND	U	1.6	ND	U	1.6
		Cyclohexane	ND	U	1.7	ND	U	1.6	3.3	J	1.6	3.3	J	1.6	ND	U	1.7	2.8	J	1.7
		Dibromochloromethane	ND	U	0.85	ND	U	0.79	ND	U	0.78	ND	U	0.79	ND	U	0.84	ND	U	0.86
		Dichlorodifluoromethane	0.71	J	1.6	0.7	J	1.5	2.9	--	1.5	2.2	J	1.5	2.8	--	1.6	2	J	1.6
		Ethanol	2.7	J	4.2	3.6	J	3.9	21	J	3.8	ND	U	3.9	ND	U	4.1	ND	U	4.2
		Ethyl acetate	ND	U	3.3	2.3	J	3	4.3	J	3	4	J	3	ND	U	3.2	ND	U	3.3
		Ethylbenzene	ND	U	0.85	ND	U	0.79	36	--	0.78	36	--	0.79	ND	U	0.84	2.9	--	0.86
		Hexane	ND	U	1.6	ND	U	1.5	10	--	1.5	9.9	--	1.5	ND	U	1.6	3.6	--	1.6
		Isopropyl alcohol	ND	U	3.2	ND	U	2.9	2.5	J	2.9	1.5	J	2.9	ND	U	3.1	ND	U	3.2
		m- & p-Xylenes	ND	U	1.7	1.1	J	1.6	94	--	1.6	94	--	1.6	ND	U	1.7	35	--	1.7
		Methylene chloride	ND	U	1.6	ND	U	1.5	1.4	J	1.5	ND	U	1.5	ND	U	1.6	ND	U	1.6
		Naphthalene	1.3	J	1.6	0.91	J	1.4	ND	U	1.4	ND	U	1.4	ND	U	1.5	1.8	J	1.6
		n-Heptane	ND	U	1.6	ND	U	1.5	9.1	--	1.5	9.3	--	1.5	ND	U	1.6	14	--	1.6
		o-Xylene	ND	U	0.85	ND	U	0.79	23	--	0.78	25	--	0.79	ND	U	0.84	14	--	0.86
		Propylene (propene)	1.7	J	1.6	ND	U	1.5	4	--	1.5	2.5	--	1.5	ND	U	1.6	1	J	1.6
		Styrene	ND	U	1.6	ND	U	1.5	ND	U	1.5	ND	U	1.5	ND	U	1.6	ND	U	1.6
		Tetrachloroethene	0.44	J	0.85	0.42	J	0.79	1.7	J	0.78	0.64	J	0.79	1	J	0.84	22	J	0.86
		Tetrahydrofuran	0.61	J	0.85	1.3	J	0.79	53	--	0.78	55	--	0.79	3	J	0.84	10	--	0.86
		Toluene	0.59	J	0.85	0.91	J	0.79	810	--	7.8	870	--	7.9	ND	U	0.84	10	--	0.86
		Trichloroethene	ND	U	0.85	ND	U	0.79	2.7	--	0.78	2.5	--	0.79	0.59	J	0.84	1,700	J	8.6
Trichlorofluoromethane	1	J	1.6	1	J	1.5	1.2	J	1.5	0.97	J	1.5	2.8	--	1.6	0.85	J	1.6		
Vinyl chloride	ND	U	0.85	ND	U	0.79	2.5	--	0.78	2.5	J	0.79	ND	U	0.84	ND	U	0.86		
Xylenes, total	ND	U	1.7	1.1	J	1.6	120	--	1.6	120	--	1.6	ND	U	1.7	49	--	1.7		

**Table D-1-5  
Field Duplicate Sample Results – Soil Vapor, Q4 2020**

		Well Location ID:	KAFB-106134-350			KAFB-106134-350			KAFB-106135-250			KAFB-106135-250			KAFB-106138-150			KAFB-106138-150		
		Field Sample ID:	SV134-350-204			SV134-350-604			SV135-250-204			SV135-250-604			SV138-150-204			SV138-150-604		
		Sample Date:	10/12/2020			10/12/2020			10/12/2020			10/12/2020			10/6/2020			10/6/2020		
		Sample Type:	REG			Field Duplicate			REG			Field Duplicate			REG			Field Duplicate		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method TO-15 (µg/m³)	1,1,2-Trichloro-1,2,2-trifluoroethane	1	J	1.1	0.93	J	0.66	1.6	J	0.77	1.6	J	1.2	5.5	--	0.79	5.5	--	0.82
		1,1-Dichloroethane	ND	U	2.2	ND	U	1.3	ND	U	1.5	ND	U	2.3	ND	U	1.5	ND	U	1.6
		1,2,4-Trichlorobenzene	ND	U	2.1	ND	U	1.2	ND	U	1.5	ND	U	2.3	ND	U	1.5	ND	U	1.5
		1,2,4-Trimethylbenzene	0.77	J	1.1	1.8	J	0.66	1.1	J	0.77	4.5	--	1.2	ND	U	0.79	ND	U	0.82
		1,2-Dibromoethane	ND	U	1.1	ND	U	0.66	ND	U	0.77	ND	U	1.2	ND	U	0.79	ND	U	0.82
		1,2-Dichloroethane	ND	U	1.1	ND	U	0.66	ND	U	0.77	ND	U	1.2	ND	U	0.79	ND	U	0.82
		1,3,5-Trimethylbenzene	ND	U	1.1	0.48	J	0.66	0.61	J	0.77	2.8	J	1.2	ND	U	0.79	ND	U	0.82
		1,3-Butadiene	ND	U	2.1	ND	U	1.2	ND	U	1.5	ND	U	2.3	ND	U	1.5	ND	U	1.5
		1,4-Dioxane	0.77	J	1.1	0.76	J	0.66	ND	U	0.77	ND	U	1.2	ND	U	0.79	ND	U	0.82
		2-Butanone	3.9	J	2.1	14	--	1.2	4.4	J	1.5	3.6	J	2.3	0.86	J	1.5	3.9	J	1.5
		2-Hexanone	ND	U	1.1	2.2	J	0.66	ND	U	0.77	ND	U	1.2	ND	U	0.79	ND	U	0.82
		4-Methyl-2-pentanone	ND	U	1.1	0.48	J	0.66	0.46	J	0.77	ND	U	1.2	ND	U	0.79	ND	U	0.82
		Acetone	13	J	18	74	--	10	ND	U	12	16	J	19	ND	U	13	14	J	13
		Benzene	4.3	--	1.1	1.1	J	0.66	0.36	J	0.77	2.1	J	1.2	ND	U	0.79	ND	U	0.82
		Bromodichloromethane	ND	U	1.1	ND	U	0.66	ND	U	0.77	ND	U	1.2	4.7	--	0.79	4.8	--	0.82
		Bromoform	ND	U	2.1	ND	U	1.2	ND	U	1.5	ND	U	2.3	ND	U	1.5	ND	U	1.5
		Carbon disulfide	26	--	3.6	24	--	2.1	7.8	--	2.5	12	--	3.8	8.9	J	2.5	28	J	2.6
		Carbon tetrachloride	0.51	J	1.1	0.52	J	0.66	0.89	J	0.77	0.87	J	1.2	2.4	--	0.79	2.4	J	0.82
		Chloroethane	ND	U	2.1	0.55	J	1.2	ND	U	1.5	ND	U	2.3	ND	U	1.5	ND	U	1.5
		Chloroform	0.78	J	1.1	0.72	J	0.66	1.6	J	0.77	1.6	J	1.2	20	--	0.79	20	--	0.82
		Chloromethane	ND	U	2.1	0.65	J	1.2	ND	U	1.5	ND	U	2.3	ND	U	1.5	ND	U	1.5
		Cyclohexane	ND	U	2.2	ND	U	1.3	ND	U	1.5	ND	U	2.4	ND	U	1.6	ND	U	1.6
		Dibromochloromethane	ND	U	1.1	ND	U	0.66	ND	U	0.77	ND	U	1.2	0.5	J	0.79	0.5	J	0.82
		Dichlorodifluoromethane	2.6	J	2.1	2.7	--	1.2	1.3	J	1.5	1.5	J	2.3	6.2	--	1.5	6.2	--	1.5
		Ethanol	9.6	J	5.5	22	--	3.2	6.7	J	3.8	10	J	5.9	ND	U	3.9	3.1	J	4
		Ethyl acetate	ND	U	4.3	2.9	J	2.5	2.9	J	3	ND	U	4.6	ND	U	3	ND	U	3.1
		Ethylbenzene	ND	U	1.1	0.4	J	0.66	ND	U	0.77	0.74	J	1.2	ND	U	0.79	ND	U	0.82
		Hexane	ND	U	2.1	0.53	J	1.2	ND	U	1.5	ND	U	2.3	ND	U	1.5	ND	U	1.5
		Isopropyl alcohol	ND	U	4.2	2.6	J	2.4	ND	U	2.9	ND	U	4.5	ND	U	2.9	ND	U	3
		m- & p-Xylenes	1.1	J	2.2	2.5	J	1.3	3.6	J	1.5	16	--	2.4	ND	U	1.6	ND	U	1.6
		Methylene chloride	ND	U	2.1	28	--	1.2	1.2	J	1.5	ND	U	2.3	ND	U	1.5	ND	U	1.5
		Naphthalene	ND	U	2	ND	U	1.2	ND	U	1.4	ND	U	2.2	ND	U	1.4	ND	U	1.5
		n-Heptane	ND	U	2.1	0.61	J	1.2	0.73	J	1.5	ND	U	2.3	ND	U	1.5	ND	U	1.5
		o-Xylene	ND	U	1.1	1.1	J	0.66	2.2	J	0.77	9.3	--	1.2	ND	U	0.79	ND	U	0.82
		Propylene (propene)	1.2	J	2.1	2.3	--	1.2	0.62	J	1.5	1.3	J	2.3	ND	U	1.5	ND	U	1.5
		Styrene	ND	U	2.1	ND	U	1.2	ND	U	1.5	ND	U	2.3	ND	U	1.5	ND	U	1.5
		Tetrachloroethene	0.71	J	1.1	0.62	J	0.66	1.3	J	0.77	1.3	J	1.2	1.2	J	0.79	1.2	J	0.82
		Tetrahydrofuran	7.6	--	1.1	6	--	0.66	3.7	J	0.77	4.7	J	1.2	1.3	J	0.79	4.8	J	0.82
		Toluene	1.5	J	1.1	4.9	--	0.66	1.6	J	0.77	3.8	--	1.2	ND	U	0.79	2.1	J	0.82
		Trichloroethene	21	--	1.1	18	--	0.66	460	--	7.7	580	--	1.2	2.2	J	0.79	2.1	J	0.82
Trichlorofluoromethane	1	J	2.1	1	J	1.2	0.63	J	1.5	0.75	J	2.3	20	--	1.5	20	--	1.5		
Vinyl chloride	ND	U	1.1	ND	U	0.66	ND	U	0.77	ND	U	1.2	ND	U	0.79	ND	U	0.82		
Xylenes, total	1.1	J	2.2	3.6	J	1.3	5.8	--	1.5	26	--	2.4	ND	U	1.6	ND	U	1.6		

**Table D-1-5  
Field Duplicate Sample Results – Soil Vapor, Q4 2020**

		Well Location ID:	KAFB-106139-050			KAFB-106139-050			KAFB-106140-450			KAFB-106140-450			KAFB-106142-170			KAFB-106142-170		
		Field Sample ID:	SV139-050-204			SV139-050-604			SV140-450-204			SV140-450-604			SV142-170-204			SV142-170-604		
		Sample Date:	10/12/2020			10/12/2020			10/12/2020			10/12/2020			10/5/2020			10/5/2020		
		Sample Type:	REG			Field Duplicate			REG			Field Duplicate			REG			Field Duplicate		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD									
VOCs	Method TO-15 (µg/m³)	1,1,2-Trichloro-1,2,2-trifluoroethane	31	--	0.82	31	--	0.74	ND	U	0.73	ND	U	0.77	0.6	J	1.1	0.56	J	0.81
		1,1-Dichloroethane	ND	U	1.6	ND	U	1.4	ND	U	1.4	ND	U	1.5	ND	U	2.1	ND	U	1.6
		1,2,4-Trichlorobenzene	ND	U	1.6	ND	U	1.4	ND	U	1.4	ND	U	1.4	ND	U	2.1	ND	U	1.5
		1,2,4-Trimethylbenzene	1.9	J	0.82	7	--	0.74	ND	U	0.73	0.4	J	0.77	ND	U	1.1	ND	U	0.81
		1,2-Dibromoethane	ND	U	0.82	ND	U	0.74	ND	U	0.73	ND	U	0.77	ND	U	1.1	ND	U	0.81
		1,2-Dichloroethane	ND	U	0.82	ND	U	0.74	0.95	J	0.73	0.78	J	0.77	ND	U	1.1	ND	U	0.81
		1,3,5-Trimethylbenzene	0.37	J	0.82	1.2	J	0.74	ND	U	0.73	ND	U	0.77	ND	U	1.1	ND	U	0.81
		1,3-Butadiene	ND	U	1.6	ND	U	1.4	ND	U	1.4	ND	U	1.4	ND	U	2.1	ND	U	1.5
		1,4-Dioxane	ND	U	0.82	0.51	J	0.74	1.3	J	0.73	ND	U	0.77	0.63	J	1.1	ND	U	0.81
		2-Butanone	12	--	1.6	5.5	--	1.4	83	--	1.4	200	--	1.4	9.6	--	2.1	2.1	J	1.5
		2-Hexanone	2.4	J	0.82	1.3	J	0.74	ND	U	0.73	ND	U	0.77	1.9	J	1.1	ND	U	0.81
		4-Methyl-2-pentanone	ND	U	0.82	ND	U	0.74	2.2	J	0.73	2.2	J	0.77	0.66	J	1.1	ND	U	0.81
		Acetone	34	--	13	30	--	12	88	--	12	170	--	12	48	--	17	9.3	J	13
		Benzene	ND	U	0.82	0.77	J	0.74	13	--	0.73	12	--	0.77	ND	U	1.1	2.4	J	0.81
		Bromodichloromethane	ND	U	0.82	ND	U	0.74	ND	U	0.73	ND	U	0.77	ND	U	1.1	ND	U	0.81
		Bromoform	ND	U	1.6	ND	U	1.4	ND	U	1.4	ND	U	1.4	ND	U	2.1	ND	U	1.5
		Carbon disulfide	1.9	J	2.6	9.2	--	2.4	14	--	2.3	14	--	2.4	24	--	3.5	12	--	2.6
		Carbon tetrachloride	7.6	--	0.82	15	--	0.74	4	--	0.73	3.4	--	0.77	1.1	J	1.1	1.1	J	0.81
		Chloroethane	ND	U	1.6	ND	U	1.4	1.3	J	1.4	1.1	J	1.4	ND	U	2.1	ND	U	1.5
		Chloroform	3.1	--	0.82	2.9	--	0.74	2.2	J	0.73	1.9	J	0.77	ND	U	1.1	0.37	J	0.81
		Chloromethane	ND	U	1.6	ND	U	1.4	2.8	--	1.4	2.3	J	1.4	0.78	J	2.1	ND	U	1.5
		Cyclohexane	ND	U	1.6	ND	U	1.5	4.3	J	1.5	3.9	J	1.5	ND	U	2.2	1.6	J	1.6
		Dibromochloromethane	ND	U	0.82	ND	U	0.74	ND	U	0.73	ND	U	0.77	ND	U	1.1	ND	U	0.81
		Dichlorodifluoromethane	2.6	--	1.6	2.5	--	1.4	3.9	--	1.4	3.8	--	1.4	18	--	2.1	21	--	1.5
		Ethanol	20	J	4	10	J	3.6	3.8	J	3.6	5	J	3.7	33	J	5.4	2.6	J	4
		Ethyl acetate	4.6	J	3.2	22	--	2.8	5.8	--	2.8	ND	U	2.9	19	--	4.2	ND	U	3.1
		Ethylbenzene	ND	U	0.82	0.67	J	0.74	1.5	J	0.73	1.6	J	0.77	ND	U	1.1	ND	U	0.81
		Hexane	ND	U	1.6	0.78	J	1.4	2.4	--	1.4	2.6	--	1.4	0.85	J	2.1	ND	U	1.5
		Isopropyl alcohol	1.6	J	3.1	ND	U	2.8	ND	U	2.7	1.1	J	2.8	5.7	J	4.1	ND	U	3
		m- & p-Xylenes	1.1	J	1.6	4.1	J	1.5	3.2	J	1.5	3.8	J	1.5	ND	U	2.2	ND	U	1.6
		Methylene chloride	1.1	J	1.6	ND	U	1.4	ND	U	1.4	ND	U	1.4	3.4	--	2.1	ND	U	1.5
		Naphthalene	ND	U	1.5	4.7	--	1.4	ND	U	1.3	ND	U	1.4	ND	U	2	ND	U	1.5
		n-Heptane	ND	U	1.6	0.89	J	1.4	0.96	J	1.4	1.4	J	1.4	0.6	J	2.1	ND	U	1.5
		o-Xylene	0.44	J	0.82	1.3	J	0.74	0.89	J	0.73	1	J	0.77	ND	U	1.1	ND	U	0.81
		Propylene (propene)	1.6	J	1.6	1.6	J	1.4	1.2	J	1.4	1.5	J	1.4	3	J	2.1	ND	U	1.5
		Styrene	ND	U	1.6	0.61	J	1.4	ND	U	1.4	ND	U	1.4	ND	U	2.1	ND	U	1.5
		Tetrachloroethene	0.44	J	0.82	0.4	J	0.74	0.31	J	0.73	ND	U	0.77	0.51	J	1.1	0.52	J	0.81
		Tetrahydrofuran	17	--	0.82	19	--	0.74	30	--	0.73	70	--	0.77	1.1	J	1.1	1.4	J	0.81
		Toluene	1	J	0.82	6.6	--	0.74	31	--	0.73	29	--	0.77	5.1	--	1.1	0.41	J	0.81
		Trichloroethene	ND	U	0.82	ND	U	0.74	0.4	J	0.73	ND	U	0.77	ND	U	1.1	ND	U	0.81
Trichlorofluoromethane	2.9	--	1.6	2.9	--	1.4	0.61	J	1.4	0.7	J	1.4	12	--	2.1	13	--	1.5		
Vinyl chloride	ND	U	0.82	ND	U	0.74	0.95	J	0.73	0.81	J	0.77	ND	U	1.1	ND	U	0.81		
Xylenes, total	1.5	J	1.6	5.4	--	1.5	4.1	J	1.5	4.8	--	1.5	ND	U	2.2	ND	U	1.6		

**Table D-1-5  
Field Duplicate Sample Results – Soil Vapor, Q4 2020**

		Well Location ID:	SVEW-06-060			SVEW-06-060			SVEW-10-410			SVEW-10-410			SVEW-11-410			SVEW-11-410		
		Field Sample ID:	SVE06-060-204			SVE06-060-604			SVE10-410-204			SVE10-410-604			SVE11-410-204			SVE11-410-604		
		Sample Date:	10/5/2020			10/5/2020			10/19/2020			10/19/2020			10/19/2020			10/19/2020		
		Sample Type:	REG			Field Duplicate			REG			Field Duplicate			REG			Field Duplicate		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method TO-15 (µg/m³)	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	U	1,600	ND	U	1,800	1,100	--	4.7	1,200	--	4	12	J	9.5	14	J	22
		1,1-Dichloroethane	ND	U	3,200	ND	U	3,400	ND	U	9.1	ND	U	7.8	ND	U	18	ND	U	44
		1,2,4-Trichlorobenzene	ND	U	3,100	ND	U	3,300	ND	U	8.8	ND	U	7.6	ND	U	18	ND	U	42
		1,2,4-Trimethylbenzene	42,000	J	1,600	20,000	J	1,800	6.3	J	4.7	6.5	J	4	200	--	9.5	250	--	22
		1,2-Dibromoethane	ND	U	1,600	ND	U	1,800	ND	U	4.7	ND	U	4	ND	U	9.5	ND	U	22
		1,2-Dichloroethane	ND	U	1,600	ND	U	1,800	1.7	J	4.7	1.7	J	4	ND	U	9.5	ND	U	22
		1,3,5-Trimethylbenzene	14,000	J	1,600	6,700	J	1,800	5.3	J	4.7	4.1	J	4	210	--	9.5	280	--	22
		1,3-Butadiene	ND	U	3,100	ND	U	3,300	ND	U	8.8	ND	U	7.6	ND	U	18	ND	U	42
		1,4-Dioxane	ND	U	1,600	ND	U	1,800	ND	U	4.7	ND	U	4	ND	U	9.5	ND	U	22
		2-Butanone	43,000	--	3,100	27,000	--	3,300	5.8	J	8.8	4.2	J	7.6	ND	U	18	ND	U	42
		2-Hexanone	ND	U	1,600	ND	U	1,800	ND	U	4.7	ND	U	4	ND	U	9.5	ND	U	22
		4-Methyl-2-pentanone	ND	U	1,600	ND	U	1,800	ND	U	4.7	ND	U	4	ND	U	9.5	ND	U	22
		Acetone	170,000	--	26,000	110,000	--	28,000	ND	U	74	ND	U	64	ND	U	150	ND	U	360
		Benzene	220,000	--	1,600	140,000	--	1,800	620	--	4.7	620	--	4	3,400	--	9.5	3,900	--	22
		Bromodichloromethane	ND	U	1,600	ND	U	1,800	ND	U	4.7	ND	U	4	ND	U	9.5	ND	U	22
		Bromoform	ND	U	3,100	ND	U	3,300	ND	U	8.8	ND	U	7.6	ND	U	18	ND	U	42
		Carbon disulfide	ND	U	5,200	ND	U	5,600	31	--	15	31	--	13	20	J	30	ND	U	71
		Carbon tetrachloride	ND	U	1,600	ND	U	1,800	16	--	4.7	16	--	4	5.9	J	9.5	ND	U	22
		Chloroethane	ND	U	3,100	ND	U	3,300	ND	U	8.8	ND	U	7.6	ND	U	18	ND	U	42
		Chloroform	ND	U	1,600	ND	U	1,800	5.7	J	4.7	6	J	4	7.1	J	9.5	ND	U	22
		Chloromethane	ND	U	3,100	ND	U	3,300	49	--	8.8	46	--	7.6	13	J	18	16	J	42
		Cyclohexane	970,000	--	3,200	700,000	--	3,500	57	--	9.3	58	--	8.1	9,600	--	19	11,000	--	45
		Dibromochloromethane	ND	U	1,600	ND	U	1,800	ND	U	4.7	ND	U	4	ND	U	9.5	ND	U	22
		Dichlorodifluoromethane	ND	U	3,100	ND	U	3,300	6.9	J	8.8	6.8	J	7.6	ND	U	18	ND	U	42
		Ethanol	22,000	J	7,900	13,000	J	8,500	ND	U	23	ND	U	20	ND	U	46	ND	U	110
		Ethyl acetate	ND	U	6,200	ND	U	6,700	ND	U	18	ND	U	15	ND	U	36	ND	U	86
		Ethylbenzene	110,000	J	1,600	63,000	J	1,800	55	--	4.7	49	--	4	130	--	9.5	170	--	22
		Hexane	960,000	--	3,100	700,000	--	3,300	160	--	8.8	160	--	7.6	1,600	--	18	1,900	--	42
		Isopropyl alcohol	7,900	J	6,000	4,800	J	6,500	ND	U	17	ND	U	15	ND	U	35	ND	U	83
		m- & p-Xylenes	120,000	J	3,200	64,000	J	3,500	210	--	9.3	180	--	8.1	2,100	--	19	2,700	--	45
		Methylene chloride	ND	U	3,100	ND	U	3,300	ND	U	8.8	ND	U	7.6	ND	U	18	ND	U	42
		Naphthalene	1,500	J	3,000	ND	U	3,200	ND	U	8.5	ND	U	7.4	ND	U	17	ND	U	41
		n-Heptane	860,000	--	3,100	600,000	--	3,300	64	--	8.8	65	--	7.6	1,400	--	18	1,700	--	42
		o-Xylene	47,000	J	1,600	24,000	J	1,800	53	--	4.7	46	--	4	720	--	9.5	950	--	22
		Propylene (propene)	4,100	J	3,100	3,200	J	3,300	14	J	8.8	14	--	7.6	91	--	18	110	--	42
		Styrene	ND	U	3,100	ND	U	3,300	ND	U	8.8	ND	U	7.6	ND	U	18	ND	U	42
		Tetrachloroethene	1,500	J	1,600	ND	U	1,800	11	J	4.7	11	J	4	3.9	J	9.5	ND	U	22
		Tetrahydrofuran	ND	U	1,600	ND	U	1,800	43	--	4.7	47	--	4	16	J	9.5	18	J	22
		Toluene	450,000	--	1,600	290,000	--	1,800	2,800	--	9.3	2,700	--	16	2,900	--	9.5	3,700	--	22
		Trichloroethene	1,000	J	1,600	ND	U	1,800	31	--	4.7	27	--	4	ND	U	9.5	ND	U	22
Trichlorofluoromethane	ND	U	3,100	ND	U	3,300	2.9	J	8.8	3	J	7.6	ND	U	18	ND	U	42		
Vinyl chloride	ND	U	1,600	ND	U	1,800	3.2	J	4.7	3.2	J	4	ND	U	9.5	ND	U	22		
Xylenes, total	170,000	J	3,200	88,000	J	3,500	260	--	9.3	230	--	8.1	2,800	--	19	3,600	--	45		

**Table D-1-5  
Field Duplicate Sample Results – Soil Vapor, Q4 2020**

		Well Location ID:	SVMW-02-150	SVMW-02-150	SVMW-04-050	SVMW-04-050	SVMW-05-050	SVMW-05-050												
		Field Sample ID:	SV02-150-204	SV02-150-604	SV04-050-204	SV04-050-604	SV05-050-204	SV05-050-604												
		Sample Date:	10/19/2020	10/19/2020	10/5/2020	10/5/2020	10/19/2020	10/19/2020												
		Sample Type:	REG	Field Duplicate	REG	Field Duplicate	REG	Field Duplicate												
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method TO-15 (µg/m³)	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	U	6,000	ND	U	3,600	ND	U	1,700	ND	U	1,800	65	--	0.62	59	--	0.75
		1,1-Dichloroethane	ND	U	12,000	ND	U	6,900	ND	U	3,400	ND	U	3,500	ND	U	1.2	ND	U	1.5
		1,2,4-Trichlorobenzene	ND	U	11,000	ND	U	6,700	ND	U	3,300	ND	U	3,400	ND	U	1.2	ND	U	1.4
		1,2,4-Trimethylbenzene	13,000	J	6,000	10,000	J	3,600	ND	U	1,700	ND	U	1,800	0.55	J	0.62	1.3	J	0.75
		1,2-Dibromoethane	ND	U	6,000	1,800	J	3,600	ND	U	1,700	ND	U	1,800	ND	U	0.62	ND	U	0.75
		1,2-Dichloroethane	ND	U	6,000	ND	U	3,600	ND	U	1,700	ND	U	1,800	ND	U	0.62	ND	U	0.75
		1,3,5-Trimethylbenzene	9,000	J	6,000	7,500	J	3,600	ND	U	1,700	ND	U	1,800	ND	U	0.62	1.9	J	0.75
		1,3-Butadiene	ND	U	11,000	ND	U	6,700	ND	U	3,300	ND	U	3,400	ND	U	1.2	ND	U	1.4
		1,4-Dioxane	ND	U	6,000	ND	U	3,600	ND	U	1,700	ND	U	1,800	ND	U	0.62	ND	U	0.75
		2-Butanone	ND	U	11,000	ND	U	6,700	ND	U	3,300	ND	U	3,400	4.8	--	1.2	8.8	--	1.4
		2-Hexanone	ND	U	6,000	ND	U	3,600	ND	U	1,700	ND	U	1,800	1.2	J	0.62	ND	U	0.75
		4-Methyl-2-pentanone	ND	U	6,000	ND	U	3,600	ND	U	1,700	2,300	J	1,800	ND	U	0.62	ND	U	0.75
		Acetone	ND	U	95,000	ND	U	57,000	ND	U	28,000	ND	U	29,000	17	J	9.9	28	--	12
		Benzene	610,000	--	6,000	710,000	--	3,600	200,000	J	1,700	110,000	J	1,800	0.71	J	0.62	22	--	0.75
		Bromodichloromethane	ND	U	6,000	ND	U	3,600	ND	U	1,700	ND	U	1,800	ND	U	0.62	ND	U	0.75
		Bromoform	ND	U	11,000	ND	U	6,700	ND	U	3,300	ND	U	3,400	ND	U	1.2	ND	U	1.4
		Carbon disulfide	ND	U	19,000	ND	U	11,000	ND	U	5,500	ND	U	5,800	2.4	J	2	25	--	2.4
		Carbon tetrachloride	ND	U	6,000	ND	U	3,600	ND	U	1,700	ND	U	1,800	0.97	J	0.62	0.99	J	0.75
		Chloroethane	ND	U	11,000	ND	U	6,700	ND	U	3,300	ND	U	3,400	ND	U	1.2	0.83	J	1.4
		Chloroform	ND	U	6,000	ND	U	3,600	ND	U	1,700	ND	U	1,800	ND	U	0.62	0.75	J	0.75
		Chloromethane	ND	U	11,000	ND	U	6,700	ND	U	3,300	ND	U	3,400	ND	U	1.2	1.4	J	1.4
		Cyclohexane	2,100,000	--	12,000	2,600,000	--	7,100	8,400	J	3,500	7,500	J	3,600	ND	U	1.2	180	--	1.5
		Dibromochloromethane	ND	U	6,000	ND	U	3,600	ND	U	1,700	ND	U	1,800	ND	U	0.62	ND	U	0.75
		Dichlorodifluoromethane	ND	U	11,000	ND	U	6,700	ND	U	3,300	ND	U	3,400	5.1	--	1.2	4.8	--	1.4
		Ethanol	ND	U	29,000	ND	U	17,000	ND	U	8,500	ND	U	8,900	20	--	3	4.4	J	3.7
		Ethyl acetate	ND	U	23,000	ND	U	14,000	ND	U	6,700	ND	U	7,000	4.1	--	2.4	ND	U	2.9
		Ethylbenzene	72,000	--	6,000	70,000	--	3,600	ND	U	1,700	ND	U	1,800	0.35	J	0.62	3.8	--	0.75
		Hexane	1,700,000	--	11,000	2,100,000	--	6,700	2,300	J	3,300	3,600	J	3,400	0.54	J	1.2	220	--	1.4
		Isopropyl alcohol	ND	U	22,000	ND	U	13,000	ND	U	6,500	ND	U	6,700	1.2	J	2.3	ND	U	2.8
		m- & p-Xylenes	250,000	--	12,000	240,000	--	7,100	ND	U	3,500	ND	U	3,600	1.3	J	1.2	24	--	1.5
		Methylene chloride	ND	U	11,000	ND	U	6,700	ND	U	3,300	ND	U	3,400	5.6	--	1.2	ND	U	1.4
		Naphthalene	ND	U	11,000	ND	U	6,500	ND	U	3,200	ND	U	3,300	ND	U	1.1	ND	U	1.4
		n-Heptane	3,000,000	--	11,000	3,100,000	--	17,000	2,200	J	3,300	3,500	J	3,400	0.85	J	1.2	380	--	1.4
		o-Xylene	78,000	--	6,000	71,000	--	3,600	ND	U	1,700	ND	U	1,800	0.61	J	0.62	9.1	--	0.75
		Propylene (propene)	ND	U	11,000	ND	U	6,700	ND	U	3,300	ND	U	3,400	1.9	--	1.2	2.8	--	1.4
		Styrene	ND	U	11,000	ND	U	6,700	ND	U	3,300	ND	U	3,400	ND	U	1.2	ND	U	1.4
		Tetrachloroethene	4,800	J	6,000	2,800	J	3,600	ND	U	1,700	ND	U	1,800	1.6	J	0.62	8.6	--	0.75
		Tetrahydrofuran	ND	U	6,000	ND	U	3,600	ND	U	1,700	ND	U	1,800	46	--	0.62	110	--	0.75
		Toluene	1,600,000	--	6,000	1,900,000	--	3,600	2,300	J	1,700	3,900	J	1,800	2.3	--	0.62	88	--	0.75
		Trichloroethene	2,600	J	6,000	1,800	J	3,600	ND	U	1,700	ND	U	1,800	ND	U	0.62	0.37	J	0.75
Trichlorofluoromethane	ND	U	11,000	ND	U	6,700	ND	U	3,300	ND	U	3,400	12	--	1.2	11	--	1.4		
Vinyl chloride	ND	U	6,000	ND	U	3,600	ND	U	1,700	ND	U	1,800	ND	U	0.62	ND	U	0.75		
Xylenes, total	330,000	--	12,000	310,000	--	7,100	ND	U	3,500	ND	U	3,600	1.9	J	1.2	33	--	1.5		

**Table D-1-5  
Field Duplicate Sample Results – Soil Vapor, Q4 2020**

		Well Location ID:	SVMW-06-100	SVMW-06-100	SVMW-14-450	SVMW-14-450								
		Field Sample ID:	SV06-100-204	SV06-100-604	SV14-450-204	SV14-450-604								
		Sample Date:	10/19/2020	10/19/2020	10/13/2020	10/13/2020								
		Sample Type:	REG	Field Duplicate	REG	Field Duplicate								
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method TO-15 (µg/m <sup>3</sup> )	1,1,2-Trichloro-1,2,2-trifluoroethane	42	--	0.77	41	--	0.77	0.58	J	0.87	0.55	J	0.73
		1,1-Dichloroethane	ND	U	1.5	ND	U	1.5	ND	U	1.7	ND	U	1.4
		1,2,4-Trichlorobenzene	ND	U	1.5	ND	U	1.5	ND	U	1.6	ND	U	1.4
		1,2,4-Trimethylbenzene	0.78	J	0.77	2	J	0.77	0.75	J	0.87	0.65	J	0.73
		1,2-Dibromoethane	ND	U	0.77	ND	U	0.77	ND	U	0.87	ND	U	0.73
		1,2-Dichloroethane	ND	U	0.77	ND	U	0.77	ND	U	0.87	ND	U	0.73
		1,3,5-Trimethylbenzene	0.4	J	0.77	0.89	J	0.77	0.4	J	0.87	0.36	J	0.73
		1,3-Butadiene	ND	U	1.5	0.77	J	1.5	ND	U	1.6	ND	U	1.4
		1,4-Dioxane	1.2	J	0.77	ND	U	0.77	ND	U	0.87	ND	U	0.73
		2-Butanone	3.9	J	1.5	830	--	1.5	7.7	--	1.6	5.4	--	1.4
		2-Hexanone	0.57	J	0.77	12	--	0.77	ND	U	0.87	ND	U	0.73
		4-Methyl-2-pentanone	ND	U	0.77	40	--	0.77	ND	U	0.87	ND	U	0.73
		Acetone	18	J	12	1,400	--	12	28	--	14	17	J	12
		Benzene	1.1	J	0.77	3.4	--	0.77	1.3	J	0.87	1.5	J	0.73
		Bromodichloromethane	ND	U	0.77	ND	U	0.77	ND	U	0.87	ND	U	0.73
		Bromoform	ND	U	1.5	ND	U	1.5	ND	U	1.6	ND	U	1.4
		Carbon disulfide	33	--	2.5	55	--	2.5	4.2	J	2.8	6.9	--	2.3
		Carbon tetrachloride	11	--	0.77	9.7	--	0.77	2.4	J	0.87	2.4	--	0.73
		Chloroethane	ND	U	1.5	6.3	--	1.5	ND	U	1.6	ND	U	1.4
		Chloroform	2.7	--	0.77	3	--	0.77	ND	U	0.87	ND	U	0.73
		Chloromethane	ND	U	1.5	6.2	--	1.5	ND	U	1.6	0.42	J	1.4
		Cyclohexane	ND	U	1.5	3.3	J	1.5	ND	U	1.7	ND	U	1.5
		Dibromochloromethane	ND	U	0.77	ND	U	0.77	ND	U	0.87	ND	U	0.73
		Dichlorodifluoromethane	26	--	1.5	26	--	1.5	12	--	1.6	12	--	1.4
		Ethanol	5.2	J	3.8	24	J	3.8	4.8	J	4.3	2	J	3.5
		Ethyl acetate	ND	U	3	2.9	J	3	ND	U	3.3	ND	U	2.8
		Ethylbenzene	0.43	J	0.77	1.7	J	0.77	0.8	J	0.87	0.42	J	0.73
		Hexane	0.67	J	1.5	5.4	--	1.5	ND	U	1.6	0.62	J	1.4
		Isopropyl alcohol	ND	U	2.9	14	--	2.9	ND	U	3.2	ND	U	2.7
		m- & p-Xylenes	2.4	J	1.5	9.4	--	1.5	3.1	J	1.7	1.5	J	1.5
		Methylene chloride	ND	U	1.5	ND	U	1.5	ND	U	1.6	ND	U	1.4
		Naphthalene	1.8	J	1.4	3.4	--	1.4	ND	U	1.6	ND	U	1.3
		n-Heptane	1.3	J	1.5	9	--	1.5	ND	U	1.6	0.59	J	1.4
		o-Xylene	0.83	J	0.77	2.6	--	0.77	1.5	J	0.87	0.52	J	0.73
		Propylene (propene)	0.78	J	1.5	100	--	1.5	0.86	J	1.6	ND	U	1.4
		Styrene	ND	U	1.5	1.2	J	1.5	ND	U	1.6	ND	U	1.4
		Tetrachloroethene	1.6	J	0.77	1.5	J	0.77	2.8	--	0.87	2.8	--	0.73
		Tetrahydrofuran	0.38	J	0.77	2.7	J	0.77	19	--	0.87	29	--	0.73
		Toluene	4.4	--	0.77	19	--	0.77	7.7	--	0.87	4.2	--	0.73
		Trichloroethene	ND	U	0.77	ND	U	0.77	1.5	J	0.87	1.6	J	0.73
Trichlorofluoromethane	4.7	--	1.5	4.6	--	1.5	0.62	J	1.6	0.57	J	1.4		
Vinyl chloride	ND	U	0.77	ND	U	0.77	1.4	J	0.87	2.1	J	0.73		
Xylenes, total	3.2	J	1.5	12	--	1.5	4.5	J	1.7	2	J	1.5		

**Table D-1-5**  
**Field Duplicate Sample Results – Soil Vapor, Q4 2020**

-- = Parameter or analyte not required for analysis or no qualifier required

ID = identification

LOD = limit of detection

ND = not detected above the detection limit

Val Qual = validation qualifier

VOC = volatile organic compound

REG = normal field sample

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter

Shading = detected concentrations above the detection limit

Qualifiers:

Val Qual based on independent data validation.

J = Qualifier denotes the analyte was positively identified, but the associated numerical value is estimated.

U = Qualifier denotes the analyte was analyzed but not detected above the detection limit. The value associated with the U-qualifier is the LOD.

-- = Validation qualifier not assigned.

**Table D-1-6  
Technical Data Completeness, Q4 2020**

<b>Analytical Parameter</b>	<b>Field/Field Duplicate Sample Analytes</b>	<b>Quality Control Sample Analytes (TB)</b>	<b>Qualified Analytes</b>	<b>Percent Technical Completeness<sup>a</sup></b>
VOCs (TO-15)	12,900	129	98	100

<sup>a</sup> Percent technical completeness including analytes qualified as estimated data. No data were rejected.

TB = trip blank

VOC = volatile organic compound



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## LABORATORY REPORT

October 27, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 12, 2020. For your reference, these analyses have been assigned our service request number P2005738.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*Kate Kaneko*  
Oct 27, 2020, 9:37 am

Kate Kaneko  
Project Manager

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2655 Park Center Dr., Suite A  
 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2005738

### CASE NARRATIVE

The samples were received intact under chain of custody on October 12, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

#### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds and tentatively identified compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2005738-003,007,008,013,014, 016, 018,020	Acetone
P2005738-001,002,012,013,018	Ethanol
P2005738-003	o-Xylene
P2005738-014,016	Propene

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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[www.alsglobal.com](http://www.alsglobal.com)

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlabs.com/search-accredited-labs">http://www.pjlabs.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413-19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2005738

Date Received: 10/12/2020  
 Time Received: 11:00

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	2nd Pi (psig)	2nd Pf (psig)	TO-15 - VOC Cans
SV028-150-204	P2005738-001	Air	10/5/2020	13:48	1SC01291	-3.28	8.38	0.59	8.31	X
SV028-250-204	P2005738-002	Air	10/5/2020	13:51	1SS00748	-3.00	7.52			X
SV028-350-204	P2005738-003	Air	10/5/2020	13:54	1SC01004	-3.00	7.39	0.03	8.15	X
SV028-450-204	P2005738-004	Air	10/5/2020	13:57	1SS00755	-4.09	8.05			X
SV124-025-204	P2005738-005	Air	10/5/2020	08:40	1SS00135	-2.02	7.67			X
SV124-050-204	P2005738-006	Air	10/5/2020	08:43	1SC01180	-3.64	7.64			X
SV124-150-204	P2005738-007	Air	10/5/2020	08:46	1SC00517	-2.23	8.10			X
SV124-250-204	P2005738-008	Air	10/5/2020	08:49	1SS00205	-2.46	7.39	0.09	6.88	X
SV124-250-604	P2005738-009	Air	10/5/2020	08:49	1SS00894	-2.33	7.68			X
SV124-350-204	P2005738-010	Air	10/5/2020	08:52	1SS00044	-3.65	7.04			X
SV124-450-204	P2005738-011	Air	10/5/2020	08:55	1SS01026	-2.73	8.18			X
SV125-025-204	P2005738-012	Air	10/5/2020	11:12	1SC01105	-3.18	8.11	0.04	7.36	X
SV125-050-204	P2005738-013	Air	10/5/2020	11:15	1SC00989	-3.02	7.62			X
SV125-150-204	P2005738-014	Air	10/5/2020	11:18	1SS00971	-3.22	7.00			X
SV125-250-204	P2005738-015	Air	10/5/2020	11:20	1SS00130	-2.99	7.47			X
SV125-350-204	P2005738-016	Air	10/5/2020	11:23	1SC00020	-3.12	7.90			X
SV125-450-204	P2005738-017	Air	10/5/2020	11:31	1SC00364	-2.62	8.28			X
SV127-025-204	P2005738-018	Air	10/5/2020	10:19	1SC00218	-2.40	7.93	-0.08	7.13	X
SV127-050-204	P2005738-019	Air	10/5/2020	10:24	1SS00993	-2.51	8.99			X
SV127-150-204	P2005738-020	Air	10/5/2020	10:26	1SC00576	-2.71	8.11			X



# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**COC #:** **COC-SV204-01**

**Requested Turnaround Time in Business Days**  
 10 Day-Standard

**ALS Project No.**  
 22005738

Company Name & Address (Reporting Information)		Project Name		ALS Contact: Kate Kaneko 1 (805) 577-2089		Analysis Method	Comments e.g. Actual Preservative or specific instructions		
EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000		Kirtland AFB Bulk Fuels Facility							
Project Manager / Project Chemist		P.O. # / Billing Information		Flow Controller ID		Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	
Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143 Email Address for Result Reporting		62735DM02 17682		(Bar code # - FC #)					
Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>		Sampler (Print & Sign) <i>Stephen Newman</i>		Canister ID (Bar code # - AC, SC, etc.)		Canister Start Pressure "Hg		Canister End Pressure "Hg/psig	Sample Volume
				Canister # - FC #		Canister Start Pressure "Hg			
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume		
SV028-150-204	2	10/5/2020	1348	1SC01291	-24.0	-0.5	1L	None	
SV028-250-204	3	10/5/2020	1351	1SS00748	-24.0	-1.0	1L	None	
SV028-350-204	4	10/5/2020	1354	1SC01004	-23.5	-1.0	1L	None	
SV028-450-204	5	10/5/2020	1357	1SS00755	-23.5	-1.0	1L	None	
SV124-025-204	6	10/5/2020	0840	1SS00135	-25.0	-1.0	1L	None	
SV124-050-204	7	10/5/2020	0843	1SC01180	-25.0	-4.0	1L	None	
SV124-150-204	8	10/5/2020	0846	1SC00517	-25.0	-0.5	1L	None	
SV124-250-204	9	10/5/2020	0849	1SS00205	-25.0	-1.5	1L	None	
SV124-250-604	10	10/5/2020	0849	1SS00894	-24.5	-2.5	1L	None	
SV124-350-204	11	10/5/2020	0852	1SS00044	-25.0	-4.5	1L	None	

Associated with Trip blank: SVTB204-01

FedEX Tracking Number: 1028 3402 2180

Shipping information: Box number <u>1</u> of <u>6</u>		Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <u>X</u>	
Relinquished by: (Signature) <i>[Signature]</i>	Date: <u>10/7/20</u>	Time: <u>1500</u>	EDD required: <b>Yes</b> Type: <u>ERPIMS / EQUIS</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date: <u>10-12-20</u>	Time: <u>1100</u>	Chain of Custody Seal: (Circle) INTACT <u>BROKEN</u> / ABSENT
Relinquished by: (Signature) <i>[Signature]</i>	Date: <u>10-12-20</u>	Time: <u>1100</u>	Requirements: QAPP
Relinquished by: (Signature) <i>[Signature]</i>	Date: <u>10-12-20</u>	Time: <u>1100</u>	Cooler / Blank Temperature <u>NA</u> °C



# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**COC #:** **COC-SV204-02**

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000		Project Name Kirtland AFB Bulk Fuels Facility		Requested Turnaround Time in Business Days 10 Day-Standard		Project No. #005131			
Project Manager / Project Chemist Devon Jeronovic (505) 715-4248 / Pam Moss (303) 590-9143		Project Number 62735DM02		ALS Contact: Kate Kaneko 1 (805) 577-2089		Analysis Method TO-15 Project Specific List			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>		P.O. # / Billing Information 17682		Sampler (Print & Sign) <i>Stephen Newman</i>		Comments e.g. Actual Preservative or specific instructions			
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments
SV124-450-204	11	10/5/2020	0855	1SS01026	NA	-26.0	-2.0	1L	None
SV125-025-204	12	10/5/2020	1112	1SC01105	NA	-24.5	-1.0	1L	None
SV125-050-204	13	10/5/2020	1115	1SC00989	NA	-25.0	-1.5	1L	None
SV125-150-204	14	10/5/2020	1118	1SS00971	NA	-24.5	-2.0	1L	None
SV125-250-204	15	10/5/2020	1120	1SS00130	NA	-26.0	-1.5	1L	None
SV125-350-204	16	10/5/2020	1123	1SC00020	NA	-24.5	-1.5	1L	None
SV125-450-204	17	10/5/2020	1131	1SC00364	NA	-27.5	-2.0	1L	None
SV127-025-204	18	10/5/2020	1019	1SC00218	NA	-26.0	-2.0	1L	None
SV127-050-204	19	10/5/2020	1024	1SS00993	NA	-24.5	-0.5	1L	None
SV127-150-204	20	10/5/2020	1026	1SC00576	NA	-25.0	-1.0	1L	None
FedEX Tracking Number: 1028 3402 2180									
Shipping information: Box number 1 of 6									
Report Tier Levels - please select									
Tier I - Results (Default if not specified) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier II (Results + QC Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>									
Relinquished by: <i>[Signature]</i>		Date: 10/17/20	Time: 1500	Received by: (Signature)		Date: 10/12/20		Time: 1100	Chain of Custody Seal: (Circle) INTACT
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:	Project Requirements: QAPP
									Cooler / Blank Temperature NA °C

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2005738  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/12/20 Date opened: 10/12/20 by: ADAVID

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? <u>Top and Bottom of box sealing.</u> Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2005738-001.01	1.0 L Source Can					
P2005738-002.01	1.0 L Source Silonite Canister					
P2005738-003.01	1.0 L Source Can					
P2005738-004.01	1.0 L Source Silonite Canister					
P2005738-005.01	1.0 L Source Silonite Canister					
P2005738-006.01	1.0 L Source Can					
P2005738-007.01	1.0 L Source Can					
P2005738-008.01	1.0 L Source Silonite Canister					
P2005738-009.01	1.0 L Source Silonite Canister					
P2005738-010.01	1.0 L Source Silonite Canister					
P2005738-011.01	1.0 L Source Silonite Canister					
P2005738-012.01	1.0 L Source Can					
P2005738-013.01	1.0 L Source Can					
P2005738-014.01	1.0 L Source Silonite Canister					
P2005738-015.01	1.0 L Source Silonite Canister					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01291

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.28    Final Pressure (psig): 8.38  
 Initial Pressure 2 (psig): 0.59    Final Pressure 2 (psig): 8.31

Container Dilution Factor: 3.04

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.4	2.3	1.4	0.57	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.1	0.80	0.49	0.13	
74-87-3	Chloromethane	0.75	1.9	1.2	0.32	J
75-01-4	Vinyl Chloride	0.51	1.6	0.51	0.17	U
106-99-0	1,3-Butadiene	1.1	1.8	1.1	0.30	U
75-00-3	Chloroethane	0.92	1.5	0.92	0.19	U
64-17-5	Ethanol	1.6	21	3.3	1.5	J
67-64-1	Acetone	6.4	17	8.6	3.8	J
75-69-4	Trichlorofluoromethane	0.29	0.69	0.43	0.11	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.9	3.1	1.9	0.68	U
75-09-2	Methylene Chloride	0.70	1.1	0.70	0.33	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.075	U
75-15-0	Carbon Disulfide	4.0	2.4	1.3	0.39	
75-34-3	1,1-Dichloroethane	0.62	1.0	0.62	0.15	U
78-93-3	2-Butanone (MEK)	0.75	2.6	0.82	0.28	J
141-78-6	Ethyl Acetate	1.4	2.1	1.4	0.59	U
110-54-3	n-Hexane	0.69	1.1	0.69	0.24	U
67-66-3	Chloroform	0.26	0.83	0.26	0.11	U
109-99-9	Tetrahydrofuran (THF)	12	2.6	0.44	0.17	
107-06-2	1,2-Dichloroethane	0.32	0.98	0.32	0.11	U
71-43-2	Benzene	0.28	1.2	0.40	0.18	J
56-23-5	Carbon Tetrachloride	0.21	0.62	0.21	0.089	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01291

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.28    Final Pressure (psig): 8.38  
 Initial Pressure 2 (psig): 0.59    Final Pressure 2 (psig): 8.31

Container Dilution Factor: 3.04

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.75	2.2	0.75	0.33	U
75-27-4	Bromodichloromethane	0.19	0.59	0.19	0.087	U
79-01-6	Trichloroethene	0.24	0.72	0.24	0.10	U
123-91-1	1,4-Dioxane	0.36	1.1	0.36	0.13	U
142-82-5	n-Heptane	0.59	0.96	0.59	0.16	U
108-10-1	4-Methyl-2-pentanone	0.32	1.9	0.32	0.14	U
108-88-3	Toluene	<b>0.31</b>	1.0	0.34	0.13	J
591-78-6	2-Hexanone	0.32	1.9	0.32	0.12	U
124-48-1	Dibromochloromethane	0.15	0.46	0.15	0.062	U
106-93-4	1,2-Dibromoethane	0.17	0.51	0.17	0.061	U
127-18-4	Tetrachloroethene	<b>0.11</b>	0.58	0.19	0.077	J
100-41-4	Ethylbenzene	0.30	0.91	0.30	0.13	U
179601-23-1	m,p-Xylenes	0.60	1.8	0.60	0.25	U
75-25-2	Bromoform	0.24	0.39	0.24	0.081	U
100-42-5	Styrene	0.57	0.93	0.57	0.15	U
95-47-6	o-Xylene	0.30	0.93	0.30	0.13	U
108-67-8	1,3,5-Trimethylbenzene	0.26	0.82	0.26	0.12	U
95-63-6	1,2,4-Trimethylbenzene	0.26	0.80	0.26	0.11	U
120-82-1	1,2,4-Trichlorobenzene	0.33	1.0	0.33	0.13	U
91-20-3	Naphthalene	0.45	0.75	0.45	0.19	U
1330-20-7	Xylenes, Total	0.60	1.8	0.60	0.25	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00748

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.00 Final Pressure (psig): 7.52

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.88	1.4	0.88	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.8	0.50	0.31	0.084	
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	0.99	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.20	0.94	0.58	0.12	J
64-17-5	Ethanol	2.1	13	2.1	0.93	U
67-64-1	Acetone	5.4	10	5.4	2.4	U
75-69-4	Trichlorofluoromethane	0.52	0.43	0.27	0.068	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.71	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	0.11	0.33	0.11	0.047	U
75-15-0	Carbon Disulfide	0.25	1.5	0.82	0.24	J
75-34-3	1,1-Dichloroethane	0.39	0.63	0.39	0.092	U
78-93-3	2-Butanone (MEK)	0.52	1.6	0.52	0.18	U
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	0.17	0.52	0.17	0.069	U
109-99-9	Tetrahydrofuran (THF)	56	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.069	U
71-43-2	Benzene	0.25	0.77	0.25	0.11	U
56-23-5	Carbon Tetrachloride	0.13	0.39	0.13	0.056	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00748

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.00 Final Pressure (psig): 7.52

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	0.15	0.45	0.15	0.064	U
123-91-1	1,4-Dioxane	0.22	0.69	0.22	0.083	U
142-82-5	n-Heptane	0.37	0.60	0.37	0.099	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	U
108-88-3	Toluene	0.21	0.66	0.21	0.082	U
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	U
124-48-1	Dibromochloromethane	0.095	0.29	0.095	0.039	U
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.038	U
127-18-4	Tetrachloroethene	0.12	0.36	0.12	0.048	U
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	0.37	1.1	0.37	0.15	U
75-25-2	Bromoform	0.15	0.24	0.15	0.051	U
100-42-5	Styrene	0.36	0.58	0.36	0.096	U
95-47-6	o-Xylene	0.19	0.58	0.19	0.084	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.50	0.16	0.072	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	0.37	1.1	0.37	0.15	U

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 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01004

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.00    Final Pressure (psig): 7.39  
 Initial Pressure 2 (psig): 0.03    Final Pressure 2 (psig): 8.15

Container Dilution Factor: 2.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.0	2.2	1.4	0.55	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.97	0.77	0.47	0.13	
74-87-3	Chloromethane	2.0	1.8	1.1	0.31	
75-01-4	Vinyl Chloride	2.2	1.5	0.49	0.16	
106-99-0	1,3-Butadiene	1.1	1.7	1.1	0.29	U
75-00-3	Chloroethane	4.8	1.4	0.89	0.18	
64-17-5	Ethanol	17	21	3.2	1.4	J
67-64-1	Acetone	11	16	8.3	3.7	J
75-69-4	Trichlorofluoromethane	0.61	0.67	0.42	0.11	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	3.0	1.9	0.66	J
75-09-2	Methylene Chloride	0.67	1.1	0.67	0.32	U
76-13-1	Trichlorotrifluoroethane	0.16	0.51	0.16	0.073	U
75-15-0	Carbon Disulfide	0.88	2.4	1.3	0.38	J
75-34-3	1,1-Dichloroethane	1.2	0.98	0.60	0.14	
78-93-3	2-Butanone (MEK)	3.4	2.5	0.80	0.27	
141-78-6	Ethyl Acetate	16	2.0	1.3	0.57	
110-54-3	n-Hexane	1.3	1.1	0.67	0.23	
67-66-3	Chloroform	0.13	0.80	0.26	0.11	J
109-99-9	Tetrahydrofuran (THF)	1.7	2.5	0.42	0.17	J
107-06-2	1,2-Dichloroethane	0.31	0.94	0.31	0.11	U
71-43-2	Benzene	0.61	1.2	0.39	0.18	J
56-23-5	Carbon Tetrachloride	0.14	0.59	0.20	0.086	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01004

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.00    Final Pressure (psig): 7.39  
 Initial Pressure 2 (psig): 0.03    Final Pressure 2 (psig): 8.15

Container Dilution Factor: 2.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.92</b>	2.1	0.72	0.32	<b>J</b>
75-27-4	Bromodichloromethane	0.19	0.57	0.19	0.084	<b>U</b>
79-01-6	Trichloroethene	0.23	0.70	0.23	0.098	<b>U</b>
123-91-1	1,4-Dioxane	0.35	1.1	0.35	0.13	<b>U</b>
142-82-5	n-Heptane	<b>0.35</b>	0.93	0.57	0.15	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>0.20</b>	1.8	0.30	0.13	<b>J</b>
108-88-3	Toluene	<b>0.74</b>	1.0	0.33	0.13	<b>J</b>
591-78-6	2-Hexanone	<b>0.64</b>	1.8	0.30	0.12	<b>J</b>
124-48-1	Dibromochloromethane	0.15	0.45	0.15	0.060	<b>U</b>
106-93-4	1,2-Dibromoethane	0.16	0.50	0.16	0.059	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.12</b>	0.56	0.18	0.075	<b>J</b>
100-41-4	Ethylbenzene	0.29	0.88	0.29	0.13	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.24</b>	1.7	0.57	0.24	<b>J</b>
75-25-2	Bromoform	0.23	0.38	0.23	0.078	<b>U</b>
100-42-5	Styrene	<b>0.18</b>	0.89	0.55	0.15	<b>J</b>
95-47-6	o-Xylene	<b>0.14</b>	0.89	0.29	0.13	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.25	0.79	0.25	0.11	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.25	0.78	0.25	0.11	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	0.32	0.99	0.32	0.13	<b>U</b>
91-20-3	Naphthalene	0.43	0.73	0.43	0.18	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.38</b>	1.7	0.57	0.24	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00755

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.09 Final Pressure (psig): 8.05

Container Dilution Factor: 2.14

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3.9	1.6	1.0	0.40	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.60	0.56	0.35	0.094	
74-87-3	Chloromethane	0.54	1.3	0.83	0.22	J
75-01-4	Vinyl Chloride	1.1	1.1	0.36	0.12	J
106-99-0	1,3-Butadiene	0.77	1.3	0.77	0.21	U
75-00-3	Chloroethane	7.4	1.1	0.65	0.13	
64-17-5	Ethanol	3.4	15	2.4	1.1	J
67-64-1	Acetone	6.1	12	6.1	2.7	U
75-69-4	Trichlorofluoromethane	0.32	0.49	0.30	0.077	J
67-63-0	2-Propanol (Isopropyl Alcohol)	0.96	2.2	1.4	0.48	J
75-09-2	Methylene Chloride	0.49	0.80	0.49	0.23	U
76-13-1	Trichlorotrifluoroethane	0.12	0.37	0.12	0.053	U
75-15-0	Carbon Disulfide	0.52	1.7	0.93	0.27	J
75-34-3	1,1-Dichloroethane	1.1	0.71	0.44	0.10	
78-93-3	2-Butanone (MEK)	0.64	1.8	0.58	0.20	J
141-78-6	Ethyl Acetate	0.97	1.5	0.97	0.42	U
110-54-3	n-Hexane	2.5	0.79	0.49	0.17	
67-66-3	Chloroform	0.30	0.58	0.19	0.078	J
109-99-9	Tetrahydrofuran (THF)	0.57	1.8	0.31	0.12	J
107-06-2	1,2-Dichloroethane	0.61	0.69	0.22	0.078	J
71-43-2	Benzene	0.23	0.87	0.28	0.13	J
56-23-5	Carbon Tetrachloride	0.070	0.43	0.14	0.063	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-004

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00755

Initial Pressure (psig): -4.09 Final Pressure (psig): 8.05

Container Dilution Factor: 2.14

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>25</b>	1.6	0.53	0.23	
75-27-4	Bromodichloromethane	0.14	0.42	0.14	0.062	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.25	0.77	0.25	0.094	U
142-82-5	n-Heptane	<b>0.15</b>	0.68	0.42	0.11	J
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.095	U
108-88-3	Toluene	<b>0.42</b>	0.74	0.24	0.092	J
591-78-6	2-Hexanone	0.22	1.3	0.22	0.086	U
124-48-1	Dibromochloromethane	0.11	0.33	0.11	0.044	U
106-93-4	1,2-Dibromoethane	<b>0.47</b>	0.36	0.12	0.043	
127-18-4	Tetrachloroethene	<b>0.29</b>	0.41	0.13	0.054	J
100-41-4	Ethylbenzene	<b>0.12</b>	0.64	0.21	0.092	J
179601-23-1	m,p-Xylenes	<b>0.22</b>	1.2	0.42	0.17	J
75-25-2	Bromoform	0.17	0.27	0.17	0.057	U
100-42-5	Styrene	0.40	0.65	0.40	0.11	U
95-47-6	o-Xylene	<b>0.13</b>	0.65	0.21	0.095	J
108-67-8	1,3,5-Trimethylbenzene	0.19	0.58	0.19	0.084	U
95-63-6	1,2,4-Trimethylbenzene	0.19	0.57	0.19	0.081	U
120-82-1	1,2,4-Trichlorobenzene	0.23	0.72	0.23	0.094	U
91-20-3	Naphthalene	0.32	0.53	0.32	0.13	U
1330-20-7	Xylenes, Total	<b>0.35</b>	1.2	0.42	0.17	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00135

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.02 Final Pressure (psig): 7.67

Container Dilution Factor: 1.76

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.82	1.3	0.82	0.33	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.45</b>	0.46	0.28	0.077	J
74-87-3	Chloromethane	0.68	1.1	0.68	0.18	U
75-01-4	Vinyl Chloride	0.29	0.91	0.29	0.098	U
106-99-0	1,3-Butadiene	0.64	1.0	0.64	0.18	U
75-00-3	Chloroethane	0.53	0.87	0.53	0.11	U
64-17-5	Ethanol	<b>3.7</b>	12	1.9	0.86	J
67-64-1	Acetone	<b>5.1</b>	9.6	5.0	2.2	J
75-69-4	Trichlorofluoromethane	<b>0.20</b>	0.40	0.25	0.063	J
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.41</b>	1.8	1.1	0.39	J
75-09-2	Methylene Chloride	<b>0.21</b>	0.66	0.41	0.19	J
76-13-1	Trichlorotrifluoroethane	<b>0.059</b>	0.30	0.098	0.044	J
75-15-0	Carbon Disulfide	<b>4.8</b>	1.4	0.76	0.23	
75-34-3	1,1-Dichloroethane	0.36	0.59	0.36	0.085	U
78-93-3	2-Butanone (MEK)	<b>0.73</b>	1.5	0.48	0.16	J
141-78-6	Ethyl Acetate	0.79	1.2	0.79	0.34	U
110-54-3	n-Hexane	0.40	0.65	0.40	0.14	U
67-66-3	Chloroform	<b>25</b>	0.48	0.15	0.064	
109-99-9	Tetrahydrofuran (THF)	<b>0.29</b>	1.5	0.25	0.10	J
107-06-2	1,2-Dichloroethane	0.18	0.57	0.18	0.064	U
71-43-2	Benzene	<b>0.48</b>	0.72	0.23	0.11	J
56-23-5	Carbon Tetrachloride	<b>0.11</b>	0.36	0.12	0.052	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV124-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-005

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00135

Initial Pressure (psig): -2.02 Final Pressure (psig): 7.67

Container Dilution Factor: 1.76

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.22	1.3	0.43	0.19	J
75-27-4	Bromodichloromethane	3.1	0.34	0.11	0.051	
79-01-6	Trichloroethene	0.18	0.42	0.14	0.059	J
123-91-1	1,4-Dioxane	0.36	0.64	0.21	0.077	J
142-82-5	n-Heptane	0.18	0.56	0.34	0.091	J
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.078	U
108-88-3	Toluene	0.68	0.61	0.20	0.076	
591-78-6	2-Hexanone	0.19	1.1	0.18	0.071	J
124-48-1	Dibromochloromethane	0.058	0.27	0.088	0.036	J
106-93-4	1,2-Dibromoethane	0.097	0.30	0.097	0.036	U
127-18-4	Tetrachloroethene	0.17	0.34	0.11	0.045	J
100-41-4	Ethylbenzene	0.19	0.53	0.17	0.076	J
179601-23-1	m,p-Xylenes	0.71	1.0	0.34	0.14	J
75-25-2	Bromoform	0.14	0.23	0.14	0.047	U
100-42-5	Styrene	0.33	0.54	0.33	0.089	U
95-47-6	o-Xylene	0.30	0.54	0.17	0.078	J
108-67-8	1,3,5-Trimethylbenzene	0.24	0.47	0.15	0.069	J
95-63-6	1,2,4-Trimethylbenzene	1.3	0.47	0.15	0.066	
120-82-1	1,2,4-Trichlorobenzene	0.19	0.59	0.19	0.077	U
91-20-3	Naphthalene	1.4	0.44	0.26	0.11	
1330-20-7	Xylenes, Total	1.0	1.0	0.34	0.14	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01180

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.64 Final Pressure (psig): 7.64

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.94	1.5	0.94	0.38	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.41</b>	0.53	0.33	0.089	J
74-87-3	Chloromethane	0.78	1.3	0.78	0.21	U
75-01-4	Vinyl Chloride	0.34	1.0	0.34	0.11	U
106-99-0	1,3-Butadiene	0.73	1.2	0.73	0.20	U
75-00-3	Chloroethane	0.61	1.0	0.61	0.13	U
64-17-5	Ethanol	<b>1.7</b>	14	2.2	0.99	J
67-64-1	Acetone	<b>39</b>	11	5.7	2.6	
75-69-4	Trichlorofluoromethane	<b>0.18</b>	0.46	0.29	0.073	J
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>1.7</b>	2.1	1.3	0.45	J
75-09-2	Methylene Chloride	<b>0.58</b>	0.76	0.47	0.22	J
76-13-1	Trichlorotrifluoroethane	<b>0.053</b>	0.35	0.11	0.050	J
75-15-0	Carbon Disulfide	<b>1.6</b>	1.6	0.88	0.26	J
75-34-3	1,1-Dichloroethane	0.41	0.67	0.41	0.097	U
78-93-3	2-Butanone (MEK)	<b>33</b>	1.7	0.55	0.19	
141-78-6	Ethyl Acetate	0.91	1.4	0.91	0.39	U
110-54-3	n-Hexane	0.46	0.75	0.46	0.16	U
67-66-3	Chloroform	<b>340</b>	5.5	1.8	0.73	D
109-99-9	Tetrahydrofuran (THF)	<b>190</b>	1.7	0.29	0.11	
107-06-2	1,2-Dichloroethane	0.21	0.65	0.21	0.074	U
71-43-2	Benzene	0.27	0.82	0.27	0.12	U
56-23-5	Carbon Tetrachloride	<b>3.0</b>	0.41	0.14	0.059	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01180

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.64 Final Pressure (psig): 7.64

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.50	1.5	0.50	0.22	U
75-27-4	Bromodichloromethane	<b>33</b>	0.39	0.13	0.058	
79-01-6	Trichloroethene	<b>0.95</b>	0.48	0.16	0.068	
123-91-1	1,4-Dioxane	0.24	0.73	0.24	0.088	U
142-82-5	n-Heptane	0.39	0.64	0.39	0.10	U
108-10-1	4-Methyl-2-pentanone	0.21	1.2	0.21	0.090	U
108-88-3	Toluene	<b>0.48</b>	0.70	0.23	0.087	J
591-78-6	2-Hexanone	0.21	1.2	0.21	0.081	U
124-48-1	Dibromochloromethane	<b>5.2</b>	0.31	0.10	0.042	
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.041	U
127-18-4	Tetrachloroethene	<b>1.5</b>	0.39	0.13	0.051	
100-41-4	Ethylbenzene	<b>0.11</b>	0.60	0.20	0.087	J
179601-23-1	m,p-Xylenes	<b>0.45</b>	1.2	0.40	0.16	J
75-25-2	Bromoform	<b>1.1</b>	0.26	0.16	0.054	
100-42-5	Styrene	0.38	0.62	0.38	0.10	U
95-47-6	o-Xylene	<b>0.16</b>	0.62	0.20	0.090	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.14</b>	0.54	0.17	0.079	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.84</b>	0.53	0.17	0.076	
120-82-1	1,2,4-Trichlorobenzene	0.22	0.68	0.22	0.088	U
91-20-3	Naphthalene	<b>0.16</b>	0.50	0.30	0.13	J
1330-20-7	Xylenes, Total	<b>0.61</b>	1.2	0.40	0.16	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00517

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.23 Final Pressure (psig): 8.10

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.85	1.4	0.85	0.35	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.34</b>	0.48	0.30	0.081	J
74-87-3	Chloromethane	0.71	1.2	0.71	0.19	U
75-01-4	Vinyl Chloride	0.30	0.95	0.30	0.10	U
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	0.56	0.90	0.56	0.11	U
64-17-5	Ethanol	<b>2.4</b>	13	2.0	0.90	J
67-64-1	Acetone	<b>6.2</b>	10	5.2	2.3	J
75-69-4	Trichlorofluoromethane	<b>0.18</b>	0.42	0.26	0.066	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.69	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	<b>0.046</b>	0.32	0.10	0.045	J
75-15-0	Carbon Disulfide	<b>7.3</b>	1.5	0.79	0.24	
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	<b>1.3</b>	1.6	0.50	0.17	J
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	U
110-54-3	n-Hexane	0.42	0.68	0.42	0.14	U
67-66-3	Chloroform	<b>44</b>	0.50	0.16	0.067	
109-99-9	Tetrahydrofuran (THF)	<b>2.3</b>	1.6	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	0.24	0.74	0.24	0.11	U
56-23-5	Carbon Tetrachloride	<b>6.2</b>	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV124-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-007

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00517

Initial Pressure (psig): -2.23 Final Pressure (psig): 8.10

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	3.4	0.36	0.12	0.053	
79-01-6	Trichloroethene	0.13	0.43	0.14	0.061	J
123-91-1	1,4-Dioxane	0.22	0.66	0.22	0.080	U
142-82-5	n-Heptane	0.36	0.58	0.36	0.095	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.082	U
108-88-3	Toluene	0.13	0.63	0.21	0.079	J
591-78-6	2-Hexanone	0.24	1.1	0.19	0.074	J
124-48-1	Dibromochloromethane	0.22	0.28	0.091	0.038	J
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	1.4	0.35	0.11	0.047	
100-41-4	Ethylbenzene	0.18	0.55	0.18	0.079	U
179601-23-1	m,p-Xylenes	0.36	1.1	0.36	0.15	U
75-25-2	Bromoform	0.14	0.23	0.14	0.049	U
100-42-5	Styrene	0.34	0.56	0.34	0.092	U
95-47-6	o-Xylene	0.18	0.56	0.18	0.081	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.072	U
95-63-6	1,2,4-Trimethylbenzene	0.23	0.48	0.16	0.069	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.080	U
91-20-3	Naphthalene	0.19	0.45	0.27	0.11	J
1330-20-7	Xylenes, Total	0.36	1.1	0.36	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00205

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.46    Final Pressure (psig): 7.39  
 Initial Pressure 2 (psig): 0.09    Final Pressure 2 (psig): 6.88

Container Dilution Factor: 2.63

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.2	2.0	1.2	0.50	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.16</b>	0.69	0.43	0.12	J
74-87-3	Chloromethane	1.0	1.7	1.0	0.27	U
75-01-4	Vinyl Chloride	0.44	1.4	0.44	0.15	U
106-99-0	1,3-Butadiene	0.95	1.5	0.95	0.26	U
75-00-3	Chloroethane	0.80	1.3	0.80	0.16	U
64-17-5	Ethanol	<b>2.5</b>	19	2.9	1.3	J
67-64-1	Acetone	<b>8.9</b>	14	7.5	3.3	J
75-69-4	Trichlorofluoromethane	<b>0.14</b>	0.60	0.37	0.095	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.7	2.7	1.7	0.59	U
75-09-2	Methylene Chloride	0.61	0.98	0.61	0.28	U
76-13-1	Trichlorotrifluoroethane	0.15	0.45	0.15	0.065	U
75-15-0	Carbon Disulfide	<b>38</b>	2.1	1.1	0.34	
75-34-3	1,1-Dichloroethane	0.54	0.88	0.54	0.13	U
78-93-3	2-Butanone (MEK)	<b>1.6</b>	2.2	0.71	0.25	J
141-78-6	Ethyl Acetate	1.2	1.8	1.2	0.51	U
110-54-3	n-Hexane	0.60	0.97	0.60	0.21	U
67-66-3	Chloroform	<b>0.74</b>	0.71	0.23	0.096	
109-99-9	Tetrahydrofuran (THF)	<b>1.7</b>	2.2	0.38	0.15	J
107-06-2	1,2-Dichloroethane	0.28	0.85	0.28	0.096	U
71-43-2	Benzene	0.35	1.1	0.35	0.16	U
56-23-5	Carbon Tetrachloride	<b>0.69</b>	0.53	0.18	0.077	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00205

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.46    Final Pressure (psig): 7.39  
 Initial Pressure 2 (psig): 0.09    Final Pressure 2 (psig): 6.88

Container Dilution Factor: 2.63

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.65	1.9	0.65	0.29	U
75-27-4	Bromodichloromethane	0.17	0.51	0.17	0.076	U
79-01-6	Trichloroethene	0.21	0.62	0.21	0.088	U
123-91-1	1,4-Dioxane	<b>0.41</b>	0.95	0.31	0.11	J
142-82-5	n-Heptane	0.51	0.83	0.51	0.14	U
108-10-1	4-Methyl-2-pentanone	<b>0.14</b>	1.6	0.27	0.12	J
108-88-3	Toluene	<b>0.20</b>	0.91	0.30	0.11	J
591-78-6	2-Hexanone	<b>0.26</b>	1.6	0.27	0.11	J
124-48-1	Dibromochloromethane	0.13	0.40	0.13	0.054	U
106-93-4	1,2-Dibromoethane	0.15	0.45	0.15	0.053	U
127-18-4	Tetrachloroethene	<b>0.081</b>	0.50	0.16	0.067	J
100-41-4	Ethylbenzene	0.26	0.79	0.26	0.11	U
179601-23-1	m,p-Xylenes	<b>0.23</b>	1.5	0.51	0.21	J
75-25-2	Bromoform	0.20	0.34	0.20	0.070	U
100-42-5	Styrene	0.49	0.80	0.49	0.13	U
95-47-6	o-Xylene	0.26	0.80	0.26	0.12	U
108-67-8	1,3,5-Trimethylbenzene	<b>0.14</b>	0.71	0.23	0.10	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.84</b>	0.70	0.23	0.099	
120-82-1	1,2,4-Trichlorobenzene	0.28	0.89	0.28	0.12	U
91-20-3	Naphthalene	<b>0.64</b>	0.65	0.39	0.16	J
1330-20-7	Xylenes, Total	<b>0.23</b>	1.5	0.51	0.21	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00894

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.33 Final Pressure (psig): 7.68

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.84	1.4	0.84	0.34	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.17</b>	0.48	0.29	0.080	J
74-87-3	Chloromethane	<b>0.24</b>	1.1	0.70	0.19	J
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	U
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	U
75-00-3	Chloroethane	0.55	0.89	0.55	0.11	U
64-17-5	Ethanol	<b>1.2</b>	13	2.0	0.89	J
67-64-1	Acetone	<b>4.0</b>	9.9	5.1	2.3	J
75-69-4	Trichlorofluoromethane	<b>0.14</b>	0.41	0.26	0.065	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.8	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	0.10	0.31	0.10	0.045	U
75-15-0	Carbon Disulfide	<b>4.6</b>	1.5	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.087	U
78-93-3	2-Butanone (MEK)	<b>0.42</b>	1.5	0.49	0.17	J
141-78-6	Ethyl Acetate	<b>4.8</b>	1.3	0.82	0.35	
110-54-3	n-Hexane	0.41	0.67	0.41	0.14	U
67-66-3	Chloroform	<b>0.85</b>	0.49	0.16	0.066	
109-99-9	Tetrahydrofuran (THF)	<b>2.5</b>	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	U
71-43-2	Benzene	0.24	0.74	0.24	0.11	U
56-23-5	Carbon Tetrachloride	<b>0.70</b>	0.37	0.12	0.053	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV124-250-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-009

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00894

Initial Pressure (psig): -2.33 Final Pressure (psig): 7.68

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	0.11	0.35	0.11	0.052	U
79-01-6	Trichloroethene	0.14	0.43	0.14	0.061	U
123-91-1	1,4-Dioxane	0.21	0.65	0.21	0.079	U
142-82-5	n-Heptane	0.35	0.57	0.35	0.094	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.081	U
108-88-3	Toluene	<b>0.53</b>	0.62	0.20	0.078	J
591-78-6	2-Hexanone	0.19	1.1	0.19	0.073	U
124-48-1	Dibromochloromethane	0.090	0.28	0.090	0.037	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.070</b>	0.35	0.11	0.046	J
100-41-4	Ethylbenzene	<b>0.094</b>	0.54	0.18	0.078	J
179601-23-1	m,p-Xylenes	<b>0.44</b>	1.0	0.35	0.15	J
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.091	U
95-47-6	o-Xylene	<b>0.14</b>	0.55	0.18	0.080	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.17</b>	0.49	0.16	0.071	J
95-63-6	1,2,4-Trimethylbenzene	<b>1.1</b>	0.48	0.16	0.068	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.079	U
91-20-3	Naphthalene	<b>0.93</b>	0.45	0.27	0.11	
1330-20-7	Xylenes, Total	<b>0.58</b>	1.0	0.35	0.15	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00044

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.15 Liter(s)

Initial Pressure (psig): -3.65 Final Pressure (psig): 7.04

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.4	4.0	2.4	0.99	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.85	1.4	0.85	0.23	U
74-87-3	Chloromethane	2.0	3.3	2.0	0.55	U
75-01-4	Vinyl Chloride	0.87	2.7	0.87	0.29	U
106-99-0	1,3-Butadiene	1.9	3.1	1.9	0.52	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	5.8	37	5.8	2.6	U
67-64-1	Acetone	15	29	15	6.6	U
75-69-4	Trichlorofluoromethane	0.75	1.2	0.75	0.19	U
67-63-0	2-Propanol (Isopropyl Alcohol)	3.4	5.3	3.4	1.2	U
75-09-2	Methylene Chloride	<b>1.5</b>	2.0	1.2	0.57	J
76-13-1	Trichlorotrifluoroethane	0.29	0.91	0.29	0.13	U
75-15-0	Carbon Disulfide	<b>2.6</b>	4.2	2.3	0.68	J
75-34-3	1,1-Dichloroethane	1.1	1.8	1.1	0.25	U
78-93-3	2-Butanone (MEK)	1.4	4.5	1.4	0.49	U
141-78-6	Ethyl Acetate	2.4	3.6	2.4	1.0	U
110-54-3	n-Hexane	1.2	1.9	1.2	0.41	U
67-66-3	Chloroform	0.46	1.4	0.46	0.19	U
109-99-9	Tetrahydrofuran (THF)	<b>0.85</b>	4.5	0.76	0.30	J
107-06-2	1,2-Dichloroethane	0.55	1.7	0.55	0.19	U
71-43-2	Benzene	<b>4.8</b>	2.1	0.70	0.32	J
56-23-5	Carbon Tetrachloride	0.36	1.1	0.36	0.15	U

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00044

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.15 Liter(s)

Initial Pressure (psig): -3.65 Final Pressure (psig): 7.04

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	2.0	3.8	1.3	0.57	J
75-27-4	Bromodichloromethane	0.33	1.0	0.33	0.15	U
79-01-6	Trichloroethene	0.27	1.2	0.42	0.18	J
123-91-1	1,4-Dioxane	0.62	1.9	0.62	0.23	U
142-82-5	n-Heptane	1.0	1.7	1.0	0.27	U
108-10-1	4-Methyl-2-pentanone	0.55	3.2	0.55	0.23	U
108-88-3	Toluene	0.59	1.8	0.59	0.23	U
591-78-6	2-Hexanone	0.55	3.2	0.55	0.21	U
124-48-1	Dibromochloromethane	0.26	0.80	0.26	0.11	U
106-93-4	1,2-Dibromoethane	0.29	0.89	0.29	0.11	U
127-18-4	Tetrachloroethene	0.33	1.0	0.33	0.13	U
100-41-4	Ethylbenzene	0.51	1.6	0.51	0.23	U
179601-23-1	m,p-Xylenes	1.0	3.0	1.0	0.42	U
75-25-2	Bromoform	0.41	0.67	0.41	0.14	U
100-42-5	Styrene	0.99	1.6	0.99	0.27	U
95-47-6	o-Xylene	0.51	1.6	0.51	0.23	U
108-67-8	1,3,5-Trimethylbenzene	0.45	1.4	0.45	0.21	U
95-63-6	1,2,4-Trimethylbenzene	0.45	1.4	0.45	0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.57	1.8	0.57	0.23	U
91-20-3	Naphthalene	0.78	1.3	0.78	0.33	U
1330-20-7	Xylenes, Total	1.0	3.0	1.0	0.42	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01026

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.73 Final Pressure (psig): 8.18

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.41	1.4	0.89	0.36	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.37	0.50	0.31	0.084	J
74-87-3	Chloromethane	1.5	1.2	0.74	0.20	
75-01-4	Vinyl Chloride	0.45	0.99	0.32	0.11	J
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.36	0.94	0.58	0.12	J
64-17-5	Ethanol	1.2	13	2.1	0.94	J
67-64-1	Acetone	5.4	10	5.4	2.4	U
75-69-4	Trichlorofluoromethane	0.18	0.43	0.27	0.069	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	0.049	0.33	0.11	0.047	J
75-15-0	Carbon Disulfide	17	1.5	0.83	0.25	
75-34-3	1,1-Dichloroethane	0.18	0.64	0.39	0.092	J
78-93-3	2-Butanone (MEK)	2.9	1.6	0.52	0.18	
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U
110-54-3	n-Hexane	0.48	0.70	0.43	0.15	J
67-66-3	Chloroform	64	0.52	0.17	0.069	
109-99-9	Tetrahydrofuran (THF)	12	1.6	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.070	U
71-43-2	Benzene	6.1	0.78	0.25	0.12	
56-23-5	Carbon Tetrachloride	6.3	0.39	0.13	0.056	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01026

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.73 Final Pressure (psig): 8.18

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	3.9	1.4	0.47	0.21	
75-27-4	Bromodichloromethane	5.8	0.37	0.12	0.055	
79-01-6	Trichloroethene	0.40	0.45	0.15	0.064	J
123-91-1	1,4-Dioxane	0.23	0.69	0.23	0.084	U
142-82-5	n-Heptane	0.37	0.61	0.37	0.099	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	U
108-88-3	Toluene	8.4	0.66	0.22	0.082	
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	U
124-48-1	Dibromochloromethane	0.47	0.29	0.095	0.039	
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	U
127-18-4	Tetrachloroethene	1.5	0.37	0.12	0.049	
100-41-4	Ethylbenzene	0.42	0.57	0.19	0.082	J
179601-23-1	m,p-Xylenes	0.80	1.1	0.37	0.15	J
75-25-2	Bromoform	0.15	0.24	0.15	0.051	U
100-42-5	Styrene	0.36	0.58	0.36	0.096	U
95-47-6	o-Xylene	0.66	0.58	0.19	0.085	
108-67-8	1,3,5-Trimethylbenzene	0.10	0.51	0.17	0.075	J
95-63-6	1,2,4-Trimethylbenzene	0.24	0.51	0.17	0.072	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.64	0.21	0.084	U
91-20-3	Naphthalene	0.13	0.47	0.28	0.12	J
1330-20-7	Xylenes, Total	1.5	1.1	0.37	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01105

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.18    Final Pressure (psig): 8.11  
 Initial Pressure 2 (psig): 0.04    Final Pressure 2 (psig): 7.36

Container Dilution Factor: 2.96

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.4	2.2	1.4	0.56	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.42</b>	0.78	0.48	0.13	J
74-87-3	Chloromethane	1.1	1.9	1.1	0.31	U
75-01-4	Vinyl Chloride	0.49	1.5	0.49	0.17	U
106-99-0	1,3-Butadiene	1.1	1.7	1.1	0.29	U
75-00-3	Chloroethane	0.90	1.5	0.90	0.19	U
64-17-5	Ethanol	3.3	21	3.3	1.5	U
67-64-1	Acetone	<b>4.8</b>	16	8.4	3.7	J
75-69-4	Trichlorofluoromethane	<b>0.18</b>	0.67	0.42	0.11	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.9	3.0	1.9	0.66	U
75-09-2	Methylene Chloride	0.68	1.1	0.68	0.32	U
76-13-1	Trichlorotrifluoroethane	0.16	0.51	0.16	0.073	U
75-15-0	Carbon Disulfide	<b>0.54</b>	2.4	1.3	0.38	J
75-34-3	1,1-Dichloroethane	0.60	0.99	0.60	0.14	U
78-93-3	2-Butanone (MEK)	0.80	2.5	0.80	0.28	U
141-78-6	Ethyl Acetate	1.3	2.1	1.3	0.58	U
110-54-3	n-Hexane	0.67	1.1	0.67	0.23	U
67-66-3	Chloroform	<b>79</b>	0.80	0.26	0.11	
109-99-9	Tetrahydrofuran (THF)	<b>11</b>	2.5	0.43	0.17	
107-06-2	1,2-Dichloroethane	0.31	0.95	0.31	0.11	U
71-43-2	Benzene	0.39	1.2	0.39	0.18	U
56-23-5	Carbon Tetrachloride	<b>0.28</b>	0.60	0.20	0.087	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01105

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.18    Final Pressure (psig): 8.11  
 Initial Pressure 2 (psig): 0.04    Final Pressure 2 (psig): 7.36

Container Dilution Factor: 2.96

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.73	2.2	0.73	0.32	U
75-27-4	Bromodichloromethane	<b>6.2</b>	0.57	0.19	0.085	
79-01-6	Trichloroethene	0.23	0.70	0.23	0.099	U
123-91-1	1,4-Dioxane	0.35	1.1	0.35	0.13	U
142-82-5	n-Heptane	0.58	0.94	0.58	0.15	U
108-10-1	4-Methyl-2-pentanone	0.31	1.8	0.31	0.13	U
108-88-3	Toluene	<b>0.30</b>	1.0	0.33	0.13	J
591-78-6	2-Hexanone	0.31	1.8	0.31	0.12	U
124-48-1	Dibromochloromethane	0.15	0.45	0.15	0.061	U
106-93-4	1,2-Dibromoethane	0.16	0.50	0.16	0.060	U
127-18-4	Tetrachloroethene	<b>0.62</b>	0.57	0.19	0.075	
100-41-4	Ethylbenzene	0.29	0.89	0.29	0.13	U
179601-23-1	m,p-Xylenes	0.58	1.7	0.58	0.24	U
75-25-2	Bromoform	0.23	0.38	0.23	0.079	U
100-42-5	Styrene	0.56	0.90	0.56	0.15	U
95-47-6	o-Xylene	0.29	0.90	0.29	0.13	U
108-67-8	1,3,5-Trimethylbenzene	0.26	0.80	0.26	0.12	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.25</b>	0.78	0.26	0.11	J
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.44	0.73	0.44	0.18	U
1330-20-7	Xylenes, Total	0.58	1.7	0.58	0.24	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00989

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.02 Final Pressure (psig): 7.62

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.72	1.4	0.89	0.36	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.40	0.50	0.31	0.084	J
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	0.99	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.94	0.58	0.12	U
64-17-5	Ethanol	2.6	13	2.1	0.94	J
67-64-1	Acetone	8.0	10	5.4	2.4	J
75-69-4	Trichlorofluoromethane	0.18	0.43	0.27	0.069	J
67-63-0	2-Propanol (Isopropyl Alcohol)	0.48	1.9	1.2	0.43	J
75-09-2	Methylene Chloride	0.75	0.72	0.44	0.21	
76-13-1	Trichlorotrifluoroethane	0.11	0.33	0.11	0.047	U
75-15-0	Carbon Disulfide	15	1.5	0.83	0.25	
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.092	U
78-93-3	2-Butanone (MEK)	1.5	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	230	5.2	1.7	0.69	D
109-99-9	Tetrahydrofuran (THF)	35	1.6	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.070	U
71-43-2	Benzene	0.12	0.78	0.25	0.12	J
56-23-5	Carbon Tetrachloride	2.1	0.39	0.13	0.056	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00989

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.02 Final Pressure (psig): 7.62

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	<b>27</b>	0.37	0.12	0.055	
79-01-6	Trichloroethene	<b>0.46</b>	0.45	0.15	0.064	
123-91-1	1,4-Dioxane	0.23	0.69	0.23	0.084	U
142-82-5	n-Heptane	0.37	0.61	0.37	0.099	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	U
108-88-3	Toluene	<b>0.29</b>	0.66	0.22	0.082	J
591-78-6	2-Hexanone	<b>0.25</b>	1.2	0.20	0.077	J
124-48-1	Dibromochloromethane	<b>0.74</b>	0.29	0.095	0.039	
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>1.7</b>	0.37	0.12	0.049	
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	<b>0.18</b>	1.1	0.37	0.15	J
75-25-2	Bromoform	0.15	0.24	0.15	0.051	U
100-42-5	Styrene	0.36	0.58	0.36	0.096	U
95-47-6	o-Xylene	0.19	0.58	0.19	0.085	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.51	0.17	0.075	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.16</b>	0.51	0.17	0.072	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.64	0.21	0.084	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	<b>0.18</b>	1.1	0.37	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00971

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 7.00

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.88	1.4	0.88	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.29</b>	0.50	0.31	0.083	J
74-87-3	Chloromethane	<b>0.20</b>	1.2	0.73	0.20	J
75-01-4	Vinyl Chloride	0.31	0.98	0.31	0.11	U
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	U
75-00-3	Chloroethane	0.57	0.93	0.57	0.12	U
64-17-5	Ethanol	2.1	13	2.1	0.93	U
67-64-1	Acetone	5.4	10	5.4	2.4	U
75-69-4	Trichlorofluoromethane	<b>0.20</b>	0.43	0.27	0.068	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.42	U
75-09-2	Methylene Chloride	0.44	0.71	0.44	0.20	U
76-13-1	Trichlorotrifluoroethane	<b>0.048</b>	0.33	0.10	0.047	J
75-15-0	Carbon Disulfide	<b>1.2</b>	1.5	0.82	0.24	J
75-34-3	1,1-Dichloroethane	0.39	0.63	0.39	0.091	U
78-93-3	2-Butanone (MEK)	<b>0.54</b>	1.6	0.51	0.18	J
141-78-6	Ethyl Acetate	0.85	1.3	0.85	0.37	U
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	<b>17</b>	0.51	0.16	0.069	
109-99-9	Tetrahydrofuran (THF)	<b>6.3</b>	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.069	U
71-43-2	Benzene	<b>0.14</b>	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	<b>6.0</b>	0.38	0.13	0.056	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV125-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-014

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00971

Initial Pressure (psig): -3.22 Final Pressure (psig): 7.00

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	<b>0.46</b>	0.37	0.12	0.054	
79-01-6	Trichloroethene	<b>0.071</b>	0.45	0.15	0.063	J
123-91-1	1,4-Dioxane	0.22	0.68	0.22	0.083	U
142-82-5	n-Heptane	0.37	0.60	0.37	0.098	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.084	U
108-88-3	Toluene	<b>0.24</b>	0.65	0.21	0.082	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.076	U
124-48-1	Dibromochloromethane	0.094	0.29	0.094	0.039	U
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	U
127-18-4	Tetrachloroethene	<b>1.8</b>	0.36	0.12	0.048	
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	0.37	1.1	0.37	0.15	U
75-25-2	Bromoform	0.15	0.24	0.15	0.050	U
100-42-5	Styrene	0.36	0.58	0.36	0.095	U
95-47-6	o-Xylene	0.19	0.58	0.19	0.084	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.14</b>	0.50	0.16	0.071	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	0.37	1.1	0.37	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00130

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.47

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.88	1.4	0.88	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.098</b>	0.50	0.31	0.083	J
74-87-3	Chloromethane	0.73	1.2	0.73	0.20	U
75-01-4	Vinyl Chloride	0.31	0.98	0.31	0.11	U
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	U
75-00-3	Chloroethane	0.57	0.93	0.57	0.12	U
64-17-5	Ethanol	2.1	13	2.1	0.93	U
67-64-1	Acetone	<b>14</b>	10	5.4	2.4	
75-69-4	Trichlorofluoromethane	<b>0.16</b>	0.43	0.27	0.068	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.42	U
75-09-2	Methylene Chloride	0.44	0.71	0.44	0.20	U
76-13-1	Trichlorotrifluoroethane	0.10	0.33	0.10	0.047	U
75-15-0	Carbon Disulfide	<b>1.8</b>	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	0.39	0.63	0.39	0.091	U
78-93-3	2-Butanone (MEK)	<b>0.75</b>	1.6	0.51	0.18	J
141-78-6	Ethyl Acetate	0.85	1.3	0.85	0.37	U
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	<b>0.22</b>	0.51	0.16	0.069	J
109-99-9	Tetrahydrofuran (THF)	<b>4.8</b>	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.069	U
71-43-2	Benzene	<b>0.66</b>	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	<b>0.20</b>	0.38	0.13	0.056	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00130

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.47

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.054	U
79-01-6	Trichloroethene	0.15	0.45	0.15	0.063	U
123-91-1	1,4-Dioxane	0.22	0.68	0.22	0.083	U
142-82-5	n-Heptane	0.37	0.60	0.37	0.098	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.084	U
108-88-3	Toluene	<b>0.36</b>	0.65	0.21	0.082	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.076	U
124-48-1	Dibromochloromethane	0.094	0.29	0.094	0.039	U
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	U
127-18-4	Tetrachloroethene	0.12	0.36	0.12	0.048	U
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	0.37	1.1	0.37	0.15	U
75-25-2	Bromoform	0.15	0.24	0.15	0.050	U
100-42-5	Styrene	0.36	0.58	0.36	0.095	U
95-47-6	o-Xylene	0.19	0.58	0.19	0.084	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.11</b>	0.50	0.16	0.071	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	0.37	1.1	0.37	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00020

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.12 Final Pressure (psig): 7.90

Container Dilution Factor: 1.95

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.1	1.5	0.91	0.37	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.51	0.32	0.086	U
74-87-3	Chloromethane	0.26	1.2	0.76	0.20	J
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.71	1.1	0.71	0.19	U
75-00-3	Chloroethane	0.59	0.96	0.59	0.12	U
64-17-5	Ethanol	2.7	14	2.1	0.96	J
67-64-1	Acetone	18	11	5.5	2.5	
75-69-4	Trichlorofluoromethane	0.28	0.44	0.28	0.070	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.55	2.0	1.2	0.44	J
75-09-2	Methylene Chloride	0.45	0.73	0.45	0.21	U
76-13-1	Trichlorotrifluoroethane	0.11	0.34	0.11	0.048	U
75-15-0	Carbon Disulfide	3.0	1.6	0.85	0.25	
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	U
78-93-3	2-Butanone (MEK)	2.4	1.7	0.53	0.18	
141-78-6	Ethyl Acetate	0.88	1.4	0.88	0.38	U
110-54-3	n-Hexane	0.44	0.72	0.44	0.15	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	4.6	1.7	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.63	0.20	0.071	U
71-43-2	Benzene	0.14	0.79	0.26	0.12	J
56-23-5	Carbon Tetrachloride	0.13	0.40	0.13	0.057	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00020

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.12 Final Pressure (psig): 7.90

Container Dilution Factor: 1.95

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.42	1.4	0.48	0.21	J
75-27-4	Bromodichloromethane	0.12	0.38	0.12	0.056	U
79-01-6	Trichloroethene	1.1	0.46	0.15	0.065	
123-91-1	1,4-Dioxane	0.28	0.70	0.23	0.085	J
142-82-5	n-Heptane	0.38	0.62	0.38	0.10	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.087	U
108-88-3	Toluene	0.15	0.67	0.22	0.084	J
591-78-6	2-Hexanone	0.43	1.2	0.20	0.079	J
124-48-1	Dibromochloromethane	0.097	0.30	0.097	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	0.12	0.37	0.12	0.050	U
100-41-4	Ethylbenzene	0.19	0.58	0.19	0.084	U
179601-23-1	m,p-Xylenes	0.38	1.1	0.38	0.16	U
75-25-2	Bromoform	0.15	0.25	0.15	0.052	U
100-42-5	Styrene	0.37	0.60	0.37	0.099	U
95-47-6	o-Xylene	0.19	0.60	0.19	0.086	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.076	U
95-63-6	1,2,4-Trimethylbenzene	0.11	0.52	0.17	0.073	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.66	0.21	0.085	U
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	U
1330-20-7	Xylenes, Total	0.38	1.1	0.38	0.16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00364

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.0050 Liter(s)

Initial Pressure (psig): -2.62 Final Pressure (psig): 8.28

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	71	110	71	29	U
75-71-8	Dichlorodifluoromethane (CFC 12)	25	40	25	6.7	U
74-87-3	Chloromethane	17	96	59	16	J
75-01-4	Vinyl Chloride	25	79	25	8.5	U
106-99-0	1,3-Butadiene	55	89	55	15	U
75-00-3	Chloroethane	46	75	46	9.5	U
64-17-5	Ethanol	170	1,100	170	75	U
67-64-1	Acetone	430	830	430	190	U
75-69-4	Trichlorofluoromethane	22	35	22	5.5	U
67-63-0	2-Propanol (Isopropyl Alcohol)	97	150	97	34	U
75-09-2	Methylene Chloride	35	57	35	16	U
76-13-1	Trichlorotrifluoroethane	8.4	26	8.4	3.8	U
75-15-0	Carbon Disulfide	61	120	66	20	J
75-34-3	1,1-Dichloroethane	31	51	31	7.3	U
78-93-3	2-Butanone (MEK)	41	130	41	14	U
141-78-6	Ethyl Acetate	69	110	69	30	U
110-54-3	n-Hexane	35	56	35	12	U
67-66-3	Chloroform	13	41	13	5.5	U
109-99-9	Tetrahydrofuran (THF)	9.2	130	22	8.6	J
107-06-2	1,2-Dichloroethane	16	49	16	5.5	U
71-43-2	Benzene	47	62	20	9.2	J
56-23-5	Carbon Tetrachloride	10	31	10	4.5	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00364

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.0050 Liter(s)

Initial Pressure (psig): -2.62 Final Pressure (psig): 8.28

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	38	110	38	17	U
75-27-4	Bromodichloromethane	9.6	30	9.6	4.4	U
79-01-6	Trichloroethene	12	36	12	5.1	U
123-91-1	1,4-Dioxane	18	55	18	6.6	U
142-82-5	n-Heptane	30	48	30	7.9	U
108-10-1	4-Methyl-2-pentanone	16	93	16	6.8	U
108-88-3	Toluene	<b>90</b>	52	17	6.6	
591-78-6	2-Hexanone	16	93	16	6.1	U
124-48-1	Dibromochloromethane	7.6	23	7.6	3.1	U
106-93-4	1,2-Dibromoethane	8.4	26	8.4	3.1	U
127-18-4	Tetrachloroethene	9.5	29	9.5	3.9	U
100-41-4	Ethylbenzene	15	46	15	6.6	U
179601-23-1	m,p-Xylenes	30	88	30	12	U
75-25-2	Bromoform	12	19	12	4.0	U
100-42-5	Styrene	29	46	29	7.7	U
95-47-6	o-Xylene	15	46	15	6.7	U
108-67-8	1,3,5-Trimethylbenzene	13	41	13	6.0	U
95-63-6	1,2,4-Trimethylbenzene	13	40	13	5.7	U
120-82-1	1,2,4-Trichlorobenzene	16	51	16	6.7	U
91-20-3	Naphthalene	22	38	22	9.4	U
1330-20-7	Xylenes, Total	30	88	30	12	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00218

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.40 Final Pressure (psig): 7.93

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.86	1.4	0.86	0.35	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.42</b>	0.48	0.30	0.081	J
74-87-3	Chloromethane	0.71	1.2	0.71	0.19	U
75-01-4	Vinyl Chloride	0.31	0.95	0.31	0.10	U
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.18	U
75-00-3	Chloroethane	0.56	0.91	0.56	0.12	U
64-17-5	Ethanol	<b>1.1</b>	13	2.0	0.90	J
67-64-1	Acetone	<b>4.9</b>	10	5.2	2.3	J
75-69-4	Trichlorofluoromethane	<b>0.17</b>	0.42	0.26	0.066	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	<b>0.58</b>	0.69	0.42	0.20	J
76-13-1	Trichlorotrifluoroethane	<b>0.054</b>	0.32	0.10	0.046	J
75-15-0	Carbon Disulfide	<b>0.48</b>	1.5	0.80	0.24	J
75-34-3	1,1-Dichloroethane	0.38	0.61	0.38	0.089	U
78-93-3	2-Butanone (MEK)	<b>1.2</b>	1.6	0.50	0.17	J
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	U
110-54-3	n-Hexane	0.42	0.68	0.42	0.14	U
67-66-3	Chloroform	<b>92</b>	0.50	0.16	0.067	
109-99-9	Tetrahydrofuran (THF)	0.27	1.6	0.27	0.10	U
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	<b>0.20</b>	0.75	0.24	0.11	J
56-23-5	Carbon Tetrachloride	<b>0.84</b>	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00218

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.40 Final Pressure (psig): 7.93

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	1.1	1.3	0.45	0.20	J
75-27-4	Bromodichloromethane	7.2	0.36	0.12	0.053	
79-01-6	Trichloroethene	0.61	0.44	0.15	0.062	
123-91-1	1,4-Dioxane	0.22	0.66	0.22	0.080	U
142-82-5	n-Heptane	0.36	0.58	0.36	0.095	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.082	U
108-88-3	Toluene	0.95	0.63	0.21	0.079	
591-78-6	2-Hexanone	0.19	1.1	0.19	0.074	U
124-48-1	Dibromochloromethane	0.11	0.28	0.092	0.038	J
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	0.37	0.35	0.12	0.047	
100-41-4	Ethylbenzene	0.21	0.55	0.18	0.079	J
179601-23-1	m,p-Xylenes	0.49	1.1	0.36	0.15	J
75-25-2	Bromoform	0.14	0.24	0.14	0.049	U
100-42-5	Styrene	0.35	0.56	0.35	0.093	U
95-47-6	o-Xylene	0.14	0.56	0.18	0.082	J
108-67-8	1,3,5-Trimethylbenzene	0.098	0.50	0.16	0.072	J
95-63-6	1,2,4-Trimethylbenzene	0.62	0.49	0.16	0.069	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.081	U
91-20-3	Naphthalene	0.25	0.46	0.27	0.11	J
1330-20-7	Xylenes, Total	0.63	1.1	0.36	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00993

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.51 Final Pressure (psig): 8.99

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.90	1.5	0.90	0.37	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.41	0.51	0.31	0.085	J
74-87-3	Chloromethane	0.75	1.2	0.75	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	U
75-00-3	Chloroethane	0.59	0.96	0.59	0.12	U
64-17-5	Ethanol	32	14	2.1	0.95	
67-64-1	Acetone	10	11	5.5	2.5	J
75-69-4	Trichlorofluoromethane	0.18	0.44	0.28	0.070	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	U
75-09-2	Methylene Chloride	0.45	0.73	0.45	0.21	U
76-13-1	Trichlorotrifluoroethane	0.053	0.34	0.11	0.048	J
75-15-0	Carbon Disulfide	0.99	1.6	0.84	0.25	J
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	U
78-93-3	2-Butanone (MEK)	28	1.6	0.53	0.18	
141-78-6	Ethyl Acetate	8.8	1.3	0.88	0.38	
110-54-3	n-Hexane	0.44	0.72	0.44	0.15	U
67-66-3	Chloroform	110	5.3	1.7	0.71	D
109-99-9	Tetrahydrofuran (THF)	130	1.6	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.071	U
71-43-2	Benzene	0.12	0.79	0.26	0.12	J
56-23-5	Carbon Tetrachloride	3.0	0.39	0.13	0.057	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV127-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00993

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.51 Final Pressure (psig): 8.99

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.48	1.4	0.48	0.21	U
75-27-4	Bromodichloromethane	12	0.38	0.12	0.056	
79-01-6	Trichloroethene	0.58	0.46	0.15	0.065	
123-91-1	1,4-Dioxane	0.18	0.70	0.23	0.085	J
142-82-5	n-Heptane	0.38	0.62	0.38	0.10	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	0.32	0.67	0.22	0.084	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.078	U
124-48-1	Dibromochloromethane	2.6	0.30	0.097	0.040	
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	0.98	0.37	0.12	0.049	
100-41-4	Ethylbenzene	0.19	0.58	0.19	0.084	U
179601-23-1	m,p-Xylenes	0.38	1.1	0.38	0.16	U
75-25-2	Bromoform	0.39	0.25	0.15	0.052	
100-42-5	Styrene	0.36	0.59	0.36	0.098	U
95-47-6	o-Xylene	0.19	0.59	0.19	0.086	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.52	0.17	0.076	U
95-63-6	1,2,4-Trimethylbenzene	0.13	0.51	0.17	0.073	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	U
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	U
1330-20-7	Xylenes, Total	0.38	1.1	0.38	0.16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00576

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.71 Final Pressure (psig): 8.11

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.88	1.4	0.88	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.25</b>	0.50	0.31	0.084	J
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	0.99	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.94	0.58	0.12	U
64-17-5	Ethanol	<b>1.6</b>	13	2.1	0.93	J
67-64-1	Acetone	<b>6.3</b>	10	5.4	2.4	J
75-69-4	Trichlorofluoromethane	<b>0.17</b>	0.43	0.27	0.068	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.71	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	0.11	0.33	0.11	0.047	U
75-15-0	Carbon Disulfide	<b>2.4</b>	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	0.39	0.63	0.39	0.092	U
78-93-3	2-Butanone (MEK)	<b>1.5</b>	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	<b>20</b>	0.52	0.17	0.069	
109-99-9	Tetrahydrofuran (THF)	<b>0.47</b>	1.6	0.27	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.069	U
71-43-2	Benzene	0.25	0.77	0.25	0.11	U
56-23-5	Carbon Tetrachloride	<b>3.5</b>	0.39	0.13	0.056	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV127-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-020

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00576

Initial Pressure (psig): -2.71 Final Pressure (psig): 8.11

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	1.2	0.37	0.12	0.055	
79-01-6	Trichloroethene	0.066	0.45	0.15	0.064	J
123-91-1	1,4-Dioxane	0.22	0.69	0.22	0.083	U
142-82-5	n-Heptane	0.37	0.60	0.37	0.099	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	U
108-88-3	Toluene	0.21	0.66	0.21	0.082	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	U
124-48-1	Dibromochloromethane	0.043	0.29	0.095	0.039	J
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.038	U
127-18-4	Tetrachloroethene	0.69	0.36	0.12	0.048	
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	0.37	1.1	0.37	0.15	U
75-25-2	Bromoform	0.15	0.24	0.15	0.051	U
100-42-5	Styrene	0.36	0.58	0.36	0.096	U
95-47-6	o-Xylene	0.19	0.58	0.19	0.084	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	0.11	0.50	0.16	0.072	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	0.37	1.1	0.37	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201019-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201019-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 10/5/20

Analyst: Wida Ang

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 10/19 - 10/20/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201019-MB	97	100	108	70-130	
Method Blank	P201020-MB	97	99	108	70-130	
Lab Control Sample	P201019-LCS	97	97	106	70-130	
Lab Control Sample	P201020-LCS	97	97	107	70-130	
Duplicate Lab Control Sample	P201019-DLCS	98	97	106	70-130	
Duplicate Lab Control Sample	P201020-DLCS	97	97	107	70-130	
SV028-150-204	P2005738-001	99	101	105	70-130	
SV028-250-204	P2005738-002	98	99	105	70-130	
SV028-350-204	P2005738-003	98	98	106	70-130	
SV028-450-204	P2005738-004	98	98	107	70-130	
SV124-025-204	P2005738-005	99	100	108	70-130	
SV124-050-204	P2005738-006	100	98	108	70-130	
SV124-150-204	P2005738-007	98	99	106	70-130	
SV124-250-204	P2005738-008	97	100	107	70-130	
SV124-250-604	P2005738-009	98	101	107	70-130	
SV124-350-204	P2005738-010	97	102	106	70-130	
SV124-350-204	P2005738-010DUP	98	101	106	70-130	
SV124-450-204	P2005738-011	97	101	107	70-130	
SV125-025-204	P2005738-012	98	100	108	70-130	
SV125-050-204	P2005738-013	98	100	108	70-130	
SV125-150-204	P2005738-014	98	100	107	70-130	
SV125-250-204	P2005738-015	98	100	108	70-130	
SV125-350-204	P2005738-016	97	99	108	70-130	
SV125-450-204	P2005738-017	99	99	106	70-130	
SV127-025-204	P2005738-018	99	101	113	70-130	
SV127-050-204	P2005738-019	100	101	112	70-130	
SV127-150-204	P2005738-020	98	99	112	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201019-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	122	107	103	88	84	57-136	5	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	37.8	36.8	89	87	59-128	2	25	
74-87-3	Chloromethane	99.8	103	101	103	101	59-132	2	25	
75-01-4	Vinyl Chloride	81.4	80.5	77.6	99	95	64-127	4	25	
106-99-0	1,3-Butadiene	95.0	94.4	93.8	99	99	66-134	0	25	
75-00-3	Chloroethane	77.3	73.5	71.9	95	93	63-127	2	25	
64-17-5	Ethanol	530	450	445	85	84	59-125	1	25	
67-64-1	Acetone	435	372	367	86	84	58-128	2	25	
75-69-4	Trichlorofluoromethane	36.3	31.3	30.8	86	85	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	169	168	102	101	52-125	1	25	
75-09-2	Methylene Chloride	59.9	54.8	54.3	91	91	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	27.9	25.5	25.4	91	91	66-126	0	25	
75-15-0	Carbon Disulfide	137	115	114	84	83	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	47.5	47.1	91	90	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	143	142	102	101	67-130	1	25	
141-78-6	Ethyl Acetate	117	150	150	128	128	65-128	0	25	
110-54-3	n-Hexane	60.2	53.3	52.9	89	88	63-120	1	25	
67-66-3	Chloroform	43.8	38.0	37.6	87	86	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	136	124	122	91	90	64-123	1	25	
107-06-2	1,2-Dichloroethane	51.4	48.3	47.9	94	93	65-128	1	25	
71-43-2	Benzene	63.9	58.1	57.3	91	90	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	27.9	27.6	84	83	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201019-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	111	110	92	91	70-117	1	25	
75-27-4	Bromodichloromethane	31.4	28.9	28.6	92	91	72-128	1	25	
79-01-6	Trichloroethene	38.3	35.4	35.1	92	92	71-123	0	25	
123-91-1	1,4-Dioxane	57.7	59.2	59.0	103	102	71-122	1	25	
142-82-5	n-Heptane	51.3	47.4	46.8	92	91	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	102	106	105	104	103	67-130	1	25	
108-88-3	Toluene	54.7	47.5	47.0	87	86	66-119	1	25	
591-78-6	2-Hexanone	98.7	106	105	107	106	62-128	0.9	25	
124-48-1	Dibromochloromethane	24.7	23.1	22.8	94	92	70-130	2	25	
106-93-4	1,2-Dibromoethane	27.1	26.1	26.0	96	96	74-122	0	25	
127-18-4	Tetrachloroethene	30.4	26.9	26.5	88	87	66-124	1	25	
100-41-4	Ethylbenzene	47.4	42.5	42.0	90	89	70-124	1	25	
179601-23-1	m,p-Xylenes	94.9	82.3	81.3	87	86	61-134	1	25	
75-25-2	Bromoform	20.1	19.5	19.3	97	96	66-139	1	25	
100-42-5	Styrene	48.4	47.5	47.1	98	97	73-127	1	25	
95-47-6	o-Xylene	47.4	41.9	41.5	88	88	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	36.1	35.5	86	85	67-130	1	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	37.7	37.2	91	90	66-132	1	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	51.1	50.9	98	97	55-142	1	25	
91-20-3	Naphthalene	37.8	39.8	39.4	105	104	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	122	103	101	84	83	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	37.1	36.3	87	85	59-128	2	25	
74-87-3	Chloromethane	99.8	99.7	96.8	100	97	59-132	3	25	
75-01-4	Vinyl Chloride	81.4	78.3	76.0	96	93	64-127	3	25	
106-99-0	1,3-Butadiene	95.0	92.4	91.8	97	97	66-134	0	25	
75-00-3	Chloroethane	77.3	72.1	70.3	93	91	63-127	2	25	
64-17-5	Ethanol	530	430	426	81	80	59-125	1	25	
67-64-1	Acetone	435	361	354	83	81	58-128	2	25	
75-69-4	Trichlorofluoromethane	36.3	30.9	30.3	85	83	62-126	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	163	160	98	96	52-125	2	25	
75-09-2	Methylene Chloride	59.9	54.0	53.2	90	89	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	27.9	25.3	25.2	91	90	66-126	1	25	
75-15-0	Carbon Disulfide	137	112	111	82	81	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	46.2	45.8	88	87	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	139	138	99	99	67-130	0	25	
141-78-6	Ethyl Acetate	117	146	145	125	124	65-128	0.8	25	
110-54-3	n-Hexane	60.2	51.7	51.2	86	85	63-120	1	25	
67-66-3	Chloroform	43.8	37.2	37.0	85	84	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	136	120	119	88	88	64-123	0	25	
107-06-2	1,2-Dichloroethane	51.4	47.3	46.9	92	91	65-128	1	25	
71-43-2	Benzene	63.9	57.0	56.1	89	88	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	27.6	27.2	83	81	68-132	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	108	108	<b>89</b>	<b>89</b>	70-117	0	25	
75-27-4	Bromodichloromethane	31.4	28.4	28.3	<b>90</b>	<b>90</b>	72-128	0	25	
79-01-6	Trichloroethene	38.3	35.1	34.7	<b>92</b>	<b>91</b>	71-123	1	25	
123-91-1	1,4-Dioxane	57.7	58.6	57.7	<b>102</b>	<b>100</b>	71-122	2	25	
142-82-5	n-Heptane	51.3	46.2	45.6	<b>90</b>	<b>89</b>	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	102	103	102	<b>101</b>	<b>100</b>	67-130	1	25	
108-88-3	Toluene	54.7	46.8	46.0	<b>86</b>	<b>84</b>	66-119	2	25	
591-78-6	2-Hexanone	98.7	103	102	<b>104</b>	<b>103</b>	62-128	1	25	
124-48-1	Dibromochloromethane	24.7	22.9	22.5	<b>93</b>	<b>91</b>	70-130	2	25	
106-93-4	1,2-Dibromoethane	27.1	25.9	25.5	<b>96</b>	<b>94</b>	74-122	2	25	
127-18-4	Tetrachloroethene	30.4	26.7	26.2	<b>88</b>	<b>86</b>	66-124	2	25	
100-41-4	Ethylbenzene	47.4	41.9	41.4	<b>88</b>	<b>87</b>	70-124	1	25	
179601-23-1	m,p-Xylenes	94.9	80.7	79.7	<b>85</b>	<b>84</b>	61-134	1	25	
75-25-2	Bromoform	20.1	19.4	19.1	<b>97</b>	<b>95</b>	66-139	2	25	
100-42-5	Styrene	48.4	46.7	46.2	<b>96</b>	<b>95</b>	73-127	1	25	
95-47-6	o-Xylene	47.4	41.5	40.8	<b>88</b>	<b>86</b>	67-125	2	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	35.3	35.1	<b>84</b>	<b>84</b>	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	37.2	36.6	<b>90</b>	<b>88</b>	66-132	2	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	50.9	50.4	<b>97</b>	<b>96</b>	55-142	1	25	
91-20-3	Naphthalene	37.8	39.3	38.9	<b>104</b>	<b>103</b>	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-350-204

ALS Project ID: P2005738

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005738-010DUP

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.15 Liter(s)

Test Notes:

Container ID: 1SS00044

Initial Pressure (psig): -3.65

Final Pressure (psig): 7.04

Container Dilution Factor: 1.97

Compound	Sample Result ppbV	Duplicate		Average ppbV	% RPD	RPD Limit	Data Qualifier
		Sample Result	Sample Result				
Propene	ND	ND	ND	-	-	25	
Dichlorodifluoromethane (CFC 12)	ND	ND	ND	-	-	25	
Chloromethane	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	-	-	25	
Ethanol	ND	ND	ND	-	-	25	
Acetone	ND	ND	ND	-	-	25	
Trichlorofluoromethane	ND	ND	ND	-	-	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	-	-	25	
Methylene Chloride	1.5	1.5	1.5	1.5	0	25	J
Trichlorotrifluoroethane	ND	ND	ND	-	-	25	
Carbon Disulfide	2.6	2.7	2.65	2.65	4	25	J
1,1-Dichloroethane	ND	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	ND	-	-	25	
Ethyl Acetate	ND	ND	ND	-	-	25	
n-Hexane	ND	ND	ND	-	-	25	
Chloroform	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	0.85	0.86	0.855	0.855	1	25	J
1,2-Dichloroethane	ND	ND	ND	-	-	25	
Benzene	4.8	4.9	4.85	4.85	2	25	
Carbon Tetrachloride	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-350-204

ALS Project ID: P2005738

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005738-010DUP

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.15 Liter(s)

Test Notes:

Container ID: 1SS00044

Initial Pressure (psig): -3.65

Final Pressure (psig): 7.04

Container Dilution Factor: 1.97

Compound	Sample Result ppbV	Duplicate Sample Result ppbV	Average ppbV	% RPD	RPD Limit	Data Qualifier
Cyclohexane	2.0	2.1	2.05	5	25	J
Bromodichloromethane	ND	ND	-	-	25	
Trichloroethene	0.27	0.26	0.265	4	25	J
1,4-Dioxane	ND	ND	-	-	25	
n-Heptane	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	-	-	25	
Toluene	ND	ND	-	-	25	
2-Hexanone	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	-	-	25	
Ethylbenzene	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	-	-	25	
Bromoform	ND	ND	-	-	25	
Styrene	ND	ND	-	-	25	
o-Xylene	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	-	-	25	
Naphthalene	ND	ND	-	-	25	
Xylenes, Total	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01291

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.28    Final Pressure (psig): 8.38  
 Initial Pressure 2 (psig): 0.59    Final Pressure 2 (psig): 8.31

Container Dilution Factor: 3.04

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.4	4.0	2.4	0.99	U
75-71-8	Dichlorodifluoromethane (CFC 12)	5.5	4.0	2.4	0.66	
74-87-3	Chloromethane	1.5	4.0	2.4	0.65	J
75-01-4	Vinyl Chloride	1.3	4.0	1.3	0.43	U
106-99-0	1,3-Butadiene	2.4	4.0	2.4	0.67	U
75-00-3	Chloroethane	2.4	4.0	2.4	0.50	U
64-17-5	Ethanol	2.9	40	6.3	2.8	J
67-64-1	Acetone	15	40	21	9.1	J
75-69-4	Trichlorofluoromethane	1.6	3.9	2.4	0.62	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.8	7.6	4.8	1.7	U
75-09-2	Methylene Chloride	2.4	4.0	2.4	1.1	U
76-13-1	Trichlorotrifluoroethane	1.3	4.0	1.3	0.58	U
75-15-0	Carbon Disulfide	12	7.6	4.1	1.2	
75-34-3	1,1-Dichloroethane	2.5	4.1	2.5	0.59	U
78-93-3	2-Butanone (MEK)	2.2	7.6	2.4	0.84	J
141-78-6	Ethyl Acetate	4.9	7.6	4.9	2.1	U
110-54-3	n-Hexane	2.4	4.0	2.4	0.84	U
67-66-3	Chloroform	1.3	4.0	1.3	0.54	U
109-99-9	Tetrahydrofuran (THF)	35	7.6	1.3	0.51	
107-06-2	1,2-Dichloroethane	1.3	4.0	1.3	0.45	U
71-43-2	Benzene	0.90	4.0	1.3	0.59	J
56-23-5	Carbon Tetrachloride	1.3	3.9	1.3	0.56	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01291

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.28    Final Pressure (psig): 8.38  
 Initial Pressure 2 (psig): 0.59    Final Pressure 2 (psig): 8.31

Container Dilution Factor: 3.04

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.6	7.6	2.6	1.1	U
75-27-4	Bromodichloromethane	1.3	4.0	1.3	0.59	U
79-01-6	Trichloroethene	1.3	3.9	1.3	0.55	U
123-91-1	1,4-Dioxane	1.3	4.0	1.3	0.48	U
142-82-5	n-Heptane	2.4	4.0	2.4	0.65	U
108-10-1	4-Methyl-2-pentanone	1.3	7.6	1.3	0.55	U
108-88-3	Toluene	<b>1.2</b>	4.0	1.3	0.49	J
591-78-6	2-Hexanone	1.3	7.6	1.3	0.50	U
124-48-1	Dibromochloromethane	1.3	4.0	1.3	0.53	U
106-93-4	1,2-Dibromoethane	1.3	4.0	1.3	0.47	U
127-18-4	Tetrachloroethene	<b>0.78</b>	4.0	1.3	0.52	J
100-41-4	Ethylbenzene	1.3	4.0	1.3	0.57	U
179601-23-1	m,p-Xylenes	2.6	7.6	2.6	1.1	U
75-25-2	Bromoform	2.4	4.0	2.4	0.84	U
100-42-5	Styrene	2.4	4.0	2.4	0.65	U
95-47-6	o-Xylene	1.3	4.0	1.3	0.59	U
108-67-8	1,3,5-Trimethylbenzene	1.3	4.0	1.3	0.59	U
95-63-6	1,2,4-Trimethylbenzene	1.3	4.0	1.3	0.56	U
120-82-1	1,2,4-Trichlorobenzene	2.4	7.6	2.4	0.99	U
91-20-3	Naphthalene	2.4	4.0	2.4	0.99	U
1330-20-7	Xylenes, Total	2.6	7.6	2.6	1.1	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00748

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.00 Final Pressure (psig): 7.52

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.62	U
75-71-8	Dichlorodifluoromethane (CFC 12)	9.0	2.5	1.5	0.41	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.81	2.5	0.81	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	0.54	2.5	1.5	0.31	J
64-17-5	Ethanol	3.9	25	3.9	1.8	U
67-64-1	Acetone	13	25	13	5.7	U
75-69-4	Trichlorofluoromethane	2.9	2.4	1.5	0.38	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	0.81	2.5	0.81	0.36	U
75-15-0	Carbon Disulfide	0.79	4.8	2.6	0.76	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	1.5	4.8	1.5	0.52	U
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.5	1.5	0.52	U
67-66-3	Chloroform	0.81	2.5	0.81	0.34	U
109-99-9	Tetrahydrofuran (THF)	160	4.8	0.81	0.32	
107-06-2	1,2-Dichloroethane	0.81	2.5	0.81	0.28	U
71-43-2	Benzene	0.81	2.5	0.81	0.37	U
56-23-5	Carbon Tetrachloride	0.81	2.4	0.81	0.35	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-002

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00748

Initial Pressure (psig): -3.00 Final Pressure (psig): 7.52

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.71	U
75-27-4	Bromodichloromethane	0.81	2.5	0.81	0.37	U
79-01-6	Trichloroethene	0.81	2.4	0.81	0.34	U
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	U
108-88-3	Toluene	0.81	2.5	0.81	0.31	U
591-78-6	2-Hexanone	0.81	4.8	0.81	0.31	U
124-48-1	Dibromochloromethane	0.81	2.5	0.81	0.33	U
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.29	U
127-18-4	Tetrachloroethene	0.81	2.5	0.81	0.33	U
100-41-4	Ethylbenzene	0.81	2.5	0.81	0.36	U
179601-23-1	m,p-Xylenes	1.6	4.8	1.6	0.67	U
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.81	2.5	0.81	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.81	2.5	0.81	0.37	U
95-63-6	1,2,4-Trimethylbenzene	0.81	2.5	0.81	0.35	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	1.6	4.8	1.6	0.67	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01004

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.00    Final Pressure (psig): 7.39  
 Initial Pressure 2 (psig): 0.03    Final Pressure 2 (psig): 8.15

Container Dilution Factor: 2.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.5	3.8	2.3	0.95	J
75-71-8	Dichlorodifluoromethane (CFC 12)	4.8	3.8	2.3	0.64	
74-87-3	Chloromethane	4.1	3.8	2.3	0.63	
75-01-4	Vinyl Chloride	5.5	3.9	1.2	0.42	
106-99-0	1,3-Butadiene	2.3	3.8	2.3	0.64	U
75-00-3	Chloroethane	13	3.8	2.3	0.48	
64-17-5	Ethanol	31	39	6.1	2.7	J
67-64-1	Acetone	27	38	20	8.8	J
75-69-4	Trichlorofluoromethane	3.5	3.7	2.3	0.59	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.9	7.3	4.6	1.6	J
75-09-2	Methylene Chloride	2.3	3.8	2.3	1.1	U
76-13-1	Trichlorotrifluoroethane	1.2	3.9	1.2	0.56	U
75-15-0	Carbon Disulfide	2.7	7.3	4.0	1.2	J
75-34-3	1,1-Dichloroethane	4.8	4.0	2.4	0.57	
78-93-3	2-Butanone (MEK)	10	7.3	2.3	0.81	
141-78-6	Ethyl Acetate	59	7.3	4.8	2.1	
110-54-3	n-Hexane	4.7	3.8	2.3	0.81	
67-66-3	Chloroform	0.62	3.9	1.2	0.52	J
109-99-9	Tetrahydrofuran (THF)	5.0	7.3	1.2	0.49	J
107-06-2	1,2-Dichloroethane	1.2	3.8	1.2	0.43	U
71-43-2	Benzene	1.9	3.8	1.2	0.56	J
56-23-5	Carbon Tetrachloride	0.88	3.7	1.2	0.54	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01004

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.00    Final Pressure (psig): 7.39  
 Initial Pressure 2 (psig): 0.03    Final Pressure 2 (psig): 8.15

Container Dilution Factor: 2.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>3.1</b>	7.3	2.5	1.1	<b>J</b>
75-27-4	Bromodichloromethane	1.2	3.8	1.2	0.56	<b>U</b>
79-01-6	Trichloroethene	1.2	3.7	1.2	0.53	<b>U</b>
123-91-1	1,4-Dioxane	1.2	3.8	1.2	0.46	<b>U</b>
142-82-5	n-Heptane	<b>1.4</b>	3.8	2.3	0.62	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>0.83</b>	7.3	1.2	0.53	<b>J</b>
108-88-3	Toluene	<b>2.8</b>	3.8	1.2	0.48	<b>J</b>
591-78-6	2-Hexanone	<b>2.6</b>	7.3	1.2	0.48	<b>J</b>
124-48-1	Dibromochloromethane	1.2	3.8	1.2	0.51	<b>U</b>
106-93-4	1,2-Dibromoethane	1.2	3.8	1.2	0.45	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.81</b>	3.8	1.2	0.51	<b>J</b>
100-41-4	Ethylbenzene	1.2	3.8	1.2	0.55	<b>U</b>
179601-23-1	m,p-Xylenes	<b>1.0</b>	7.3	2.5	1.0	<b>J</b>
75-25-2	Bromoform	2.3	3.9	2.3	0.81	<b>U</b>
100-42-5	Styrene	<b>0.75</b>	3.8	2.3	0.63	<b>J</b>
95-47-6	o-Xylene	<b>0.62</b>	3.9	1.2	0.56	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	1.2	3.9	1.2	0.56	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	1.2	3.8	1.2	0.54	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	2.3	7.3	2.3	0.95	<b>U</b>
91-20-3	Naphthalene	2.3	3.8	2.3	0.95	<b>U</b>
1330-20-7	Xylenes, Total	<b>1.7</b>	7.3	2.5	1.0	<b>J</b>

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV028-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00755

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.09 Final Pressure (psig): 8.05

Container Dilution Factor: 2.14

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	6.7	2.8	1.7	0.70	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	2.8	1.7	0.47	
74-87-3	Chloromethane	1.1	2.8	1.7	0.46	J
75-01-4	Vinyl Chloride	2.7	2.8	0.91	0.30	J
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	19	2.8	1.7	0.35	
64-17-5	Ethanol	6.5	28	4.4	2.0	J
67-64-1	Acetone	14	28	14	6.4	U
75-69-4	Trichlorofluoromethane	1.8	2.7	1.7	0.43	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.3	5.4	3.4	1.2	J
75-09-2	Methylene Chloride	1.7	2.8	1.7	0.80	U
76-13-1	Trichlorotrifluoroethane	0.91	2.8	0.91	0.41	U
75-15-0	Carbon Disulfide	1.6	5.4	2.9	0.86	J
75-34-3	1,1-Dichloroethane	4.5	2.9	1.8	0.42	
78-93-3	2-Butanone (MEK)	1.9	5.4	1.7	0.59	J
141-78-6	Ethyl Acetate	3.5	5.4	3.5	1.5	U
110-54-3	n-Hexane	8.7	2.8	1.7	0.59	
67-66-3	Chloroform	1.5	2.8	0.91	0.38	J
109-99-9	Tetrahydrofuran (THF)	1.7	5.4	0.91	0.36	J
107-06-2	1,2-Dichloroethane	2.5	2.8	0.91	0.32	J
71-43-2	Benzene	0.75	2.8	0.91	0.41	J
56-23-5	Carbon Tetrachloride	0.44	2.7	0.91	0.40	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV028-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-004

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00755

Initial Pressure (psig): -4.09 Final Pressure (psig): 8.05

Container Dilution Factor: 2.14

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	85	5.4	1.8	0.80	
75-27-4	Bromodichloromethane	0.91	2.8	0.91	0.41	U
79-01-6	Trichloroethene	0.91	2.7	0.91	0.39	U
123-91-1	1,4-Dioxane	0.91	2.8	0.91	0.34	U
142-82-5	n-Heptane	0.60	2.8	1.7	0.45	J
108-10-1	4-Methyl-2-pentanone	0.91	5.4	0.91	0.39	U
108-88-3	Toluene	1.6	2.8	0.91	0.35	J
591-78-6	2-Hexanone	0.91	5.4	0.91	0.35	U
124-48-1	Dibromochloromethane	0.91	2.8	0.91	0.37	U
106-93-4	1,2-Dibromoethane	3.6	2.8	0.91	0.33	
127-18-4	Tetrachloroethene	2.0	2.8	0.91	0.37	J
100-41-4	Ethylbenzene	0.54	2.8	0.91	0.40	J
179601-23-1	m,p-Xylenes	0.96	5.4	1.8	0.75	J
75-25-2	Bromoform	1.7	2.8	1.7	0.59	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	0.55	2.8	0.91	0.41	J
108-67-8	1,3,5-Trimethylbenzene	0.91	2.8	0.91	0.41	U
95-63-6	1,2,4-Trimethylbenzene	0.91	2.8	0.91	0.40	U
120-82-1	1,2,4-Trichlorobenzene	1.7	5.4	1.7	0.70	U
91-20-3	Naphthalene	1.7	2.8	1.7	0.70	U
1330-20-7	Xylenes, Total	1.5	5.4	1.8	0.75	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-005

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00135

Initial Pressure (psig): -2.02 Final Pressure (psig): 7.67

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.3	1.4	0.57	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	2.3	1.4	0.38	J
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	U
75-01-4	Vinyl Chloride	0.75	2.3	0.75	0.25	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	U
64-17-5	Ethanol	7.0	23	3.7	1.6	J
67-64-1	Acetone	12	23	12	5.3	J
75-69-4	Trichlorofluoromethane	1.1	2.2	1.4	0.36	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.0	4.4	2.8	0.97	J
75-09-2	Methylene Chloride	0.73	2.3	1.4	0.66	J
76-13-1	Trichlorotrifluoroethane	0.45	2.3	0.75	0.33	J
75-15-0	Carbon Disulfide	15	4.4	2.4	0.70	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.34	U
78-93-3	2-Butanone (MEK)	2.2	4.4	1.4	0.48	J
141-78-6	Ethyl Acetate	2.9	4.4	2.9	1.2	U
110-54-3	n-Hexane	1.4	2.3	1.4	0.48	U
67-66-3	Chloroform	120	2.3	0.75	0.31	
109-99-9	Tetrahydrofuran (THF)	0.85	4.4	0.75	0.29	J
107-06-2	1,2-Dichloroethane	0.75	2.3	0.75	0.26	U
71-43-2	Benzene	1.5	2.3	0.75	0.34	J
56-23-5	Carbon Tetrachloride	0.70	2.2	0.75	0.33	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00135

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.02 Final Pressure (psig): 7.67

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.77	4.4	1.5	0.66	J
75-27-4	Bromodichloromethane	21	2.3	0.75	0.34	
79-01-6	Trichloroethene	0.98	2.2	0.75	0.32	J
123-91-1	1,4-Dioxane	1.3	2.3	0.75	0.28	J
142-82-5	n-Heptane	0.73	2.3	1.4	0.37	J
108-10-1	4-Methyl-2-pentanone	0.75	4.4	0.75	0.32	U
108-88-3	Toluene	2.6	2.3	0.75	0.29	
591-78-6	2-Hexanone	0.79	4.4	0.75	0.29	J
124-48-1	Dibromochloromethane	0.49	2.3	0.75	0.31	J
106-93-4	1,2-Dibromoethane	0.75	2.3	0.75	0.27	U
127-18-4	Tetrachloroethene	1.1	2.3	0.75	0.30	J
100-41-4	Ethylbenzene	0.84	2.3	0.75	0.33	J
179601-23-1	m,p-Xylenes	3.1	4.4	1.5	0.62	J
75-25-2	Bromoform	1.4	2.3	1.4	0.48	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	1.3	2.3	0.75	0.34	J
108-67-8	1,3,5-Trimethylbenzene	1.2	2.3	0.75	0.34	J
95-63-6	1,2,4-Trimethylbenzene	6.4	2.3	0.75	0.33	
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.57	U
91-20-3	Naphthalene	7.3	2.3	1.4	0.57	
1330-20-7	Xylenes, Total	4.4	4.4	1.5	0.62	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01180

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.64 Final Pressure (psig): 7.64

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.6	1.6	0.66	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	2.6	1.6	0.44	J
74-87-3	Chloromethane	1.6	2.6	1.6	0.43	U
75-01-4	Vinyl Chloride	0.86	2.7	0.86	0.29	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.44	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	3.2	27	4.2	1.9	J
67-64-1	Acetone	93	26	14	6.1	J
75-69-4	Trichlorofluoromethane	1.0	2.6	1.6	0.41	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.2	5.1	3.2	1.1	J
75-09-2	Methylene Chloride	2.0	2.6	1.6	0.76	J
76-13-1	Trichlorotrifluoroethane	0.41	2.7	0.86	0.38	J
75-15-0	Carbon Disulfide	5.0	5.1	2.7	0.81	J
75-34-3	1,1-Dichloroethane	1.7	2.7	1.7	0.39	U
78-93-3	2-Butanone (MEK)	96	5.1	1.6	0.56	J
141-78-6	Ethyl Acetate	3.3	5.1	3.3	1.4	U
110-54-3	n-Hexane	1.6	2.6	1.6	0.56	U
67-66-3	Chloroform	1,600	27	8.6	3.6	D
109-99-9	Tetrahydrofuran (THF)	560	5.1	0.86	0.34	J
107-06-2	1,2-Dichloroethane	0.86	2.6	0.86	0.30	U
71-43-2	Benzene	0.86	2.6	0.86	0.39	U
56-23-5	Carbon Tetrachloride	19	2.6	0.86	0.37	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01180

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.64 Final Pressure (psig): 7.64

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	5.1	1.7	0.76	U
75-27-4	Bromodichloromethane	<b>220</b>	2.6	0.86	0.39	
79-01-6	Trichloroethene	<b>5.1</b>	2.6	0.86	0.36	
123-91-1	1,4-Dioxane	0.86	2.6	0.86	0.32	U
142-82-5	n-Heptane	1.6	2.6	1.6	0.43	U
108-10-1	4-Methyl-2-pentanone	0.86	5.1	0.86	0.37	U
108-88-3	Toluene	<b>1.8</b>	2.6	0.86	0.33	J
591-78-6	2-Hexanone	0.86	5.1	0.86	0.33	U
124-48-1	Dibromochloromethane	<b>45</b>	2.6	0.86	0.35	
106-93-4	1,2-Dibromoethane	0.86	2.6	0.86	0.31	U
127-18-4	Tetrachloroethene	<b>10</b>	2.6	0.86	0.35	
100-41-4	Ethylbenzene	<b>0.49</b>	2.6	0.86	0.38	J
179601-23-1	m,p-Xylenes	<b>2.0</b>	5.1	1.7	0.71	J
75-25-2	Bromoform	<b>12</b>	2.7	1.6	0.56	
100-42-5	Styrene	1.6	2.6	1.6	0.43	U
95-47-6	o-Xylene	<b>0.68</b>	2.7	0.86	0.39	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.68</b>	2.7	0.86	0.39	J
95-63-6	1,2,4-Trimethylbenzene	<b>4.1</b>	2.6	0.86	0.37	
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.66	U
91-20-3	Naphthalene	<b>0.85</b>	2.6	1.6	0.66	J
1330-20-7	Xylenes, Total	<b>2.6</b>	5.1	1.7	0.71	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00517

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.23 Final Pressure (psig): 8.10

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.59	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.7	2.4	1.5	0.40	J
74-87-3	Chloromethane	1.5	2.4	1.5	0.39	U
75-01-4	Vinyl Chloride	0.78	2.4	0.78	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	4.5	24	3.8	1.7	J
67-64-1	Acetone	15	24	12	5.5	J
75-69-4	Trichlorofluoromethane	1.0	2.3	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	0.35	2.4	0.78	0.35	J
75-15-0	Carbon Disulfide	23	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	3.9	4.6	1.5	0.50	J
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U
110-54-3	n-Hexane	1.5	2.4	1.5	0.50	U
67-66-3	Chloroform	210	2.4	0.78	0.32	
109-99-9	Tetrahydrofuran (THF)	6.9	4.6	0.78	0.31	
107-06-2	1,2-Dichloroethane	0.78	2.4	0.78	0.27	U
71-43-2	Benzene	0.78	2.4	0.78	0.35	U
56-23-5	Carbon Tetrachloride	39	2.3	0.78	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00517

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.23 Final Pressure (psig): 8.10

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.6	1.6	0.69	U
75-27-4	Bromodichloromethane	<b>22</b>	2.4	0.78	0.35	
79-01-6	Trichloroethene	<b>0.71</b>	2.3	0.78	0.33	J
123-91-1	1,4-Dioxane	0.78	2.4	0.78	0.29	U
142-82-5	n-Heptane	1.5	2.4	1.5	0.39	U
108-10-1	4-Methyl-2-pentanone	0.78	4.6	0.78	0.33	U
108-88-3	Toluene	<b>0.50</b>	2.4	0.78	0.30	J
591-78-6	2-Hexanone	<b>0.97</b>	4.6	0.78	0.30	J
124-48-1	Dibromochloromethane	<b>1.9</b>	2.4	0.78	0.32	J
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.28	U
127-18-4	Tetrachloroethene	<b>9.5</b>	2.4	0.78	0.32	
100-41-4	Ethylbenzene	0.78	2.4	0.78	0.34	U
179601-23-1	m,p-Xylenes	1.6	4.6	1.6	0.64	U
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	0.78	2.4	0.78	0.35	U
108-67-8	1,3,5-Trimethylbenzene	0.78	2.4	0.78	0.35	U
95-63-6	1,2,4-Trimethylbenzene	<b>1.1</b>	2.4	0.78	0.34	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	<b>0.98</b>	2.4	1.4	0.59	J
1330-20-7	Xylenes, Total	1.6	4.6	1.6	0.64	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00205

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.46    Final Pressure (psig): 7.39  
 Initial Pressure 2 (psig): 0.09    Final Pressure 2 (psig): 6.88

Container Dilution Factor: 2.63

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.1	3.4	2.1	0.85	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.80</b>	3.4	2.1	0.57	J
74-87-3	Chloromethane	2.1	3.4	2.1	0.57	U
75-01-4	Vinyl Chloride	1.1	3.5	1.1	0.37	U
106-99-0	1,3-Butadiene	2.1	3.4	2.1	0.58	U
75-00-3	Chloroethane	2.1	3.4	2.1	0.43	U
64-17-5	Ethanol	<b>4.8</b>	35	5.5	2.4	J
67-64-1	Acetone	<b>21</b>	34	18	7.9	J
75-69-4	Trichlorofluoromethane	<b>0.79</b>	3.4	2.1	0.53	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.1	6.6	4.1	1.4	U
75-09-2	Methylene Chloride	2.1	3.4	2.1	0.99	U
76-13-1	Trichlorotrifluoroethane	1.1	3.5	1.1	0.50	U
75-15-0	Carbon Disulfide	<b>120</b>	6.6	3.6	1.1	
75-34-3	1,1-Dichloroethane	2.2	3.6	2.2	0.51	U
78-93-3	2-Butanone (MEK)	<b>4.8</b>	6.6	2.1	0.72	J
141-78-6	Ethyl Acetate	4.3	6.6	4.3	1.8	U
110-54-3	n-Hexane	2.1	3.4	2.1	0.72	U
67-66-3	Chloroform	<b>3.6</b>	3.5	1.1	0.47	
109-99-9	Tetrahydrofuran (THF)	<b>4.9</b>	6.6	1.1	0.44	J
107-06-2	1,2-Dichloroethane	1.1	3.4	1.1	0.39	U
71-43-2	Benzene	1.1	3.4	1.1	0.51	U
56-23-5	Carbon Tetrachloride	<b>4.3</b>	3.4	1.1	0.49	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00205

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.46    Final Pressure (psig): 7.39  
 Initial Pressure 2 (psig): 0.09    Final Pressure 2 (psig): 6.88

Container Dilution Factor: 2.63

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.2	6.6	2.2	0.99	U
75-27-4	Bromodichloromethane	1.1	3.4	1.1	0.51	U
79-01-6	Trichloroethene	1.1	3.4	1.1	0.47	U
123-91-1	1,4-Dioxane	1.5	3.4	1.1	0.41	J
142-82-5	n-Heptane	2.1	3.4	2.1	0.56	U
108-10-1	4-Methyl-2-pentanone	0.56	6.6	1.1	0.48	J
108-88-3	Toluene	0.76	3.4	1.1	0.43	J
591-78-6	2-Hexanone	1.1	6.6	1.1	0.43	J
124-48-1	Dibromochloromethane	1.1	3.4	1.1	0.46	U
106-93-4	1,2-Dibromoethane	1.1	3.4	1.1	0.41	U
127-18-4	Tetrachloroethene	0.55	3.4	1.1	0.45	J
100-41-4	Ethylbenzene	1.1	3.4	1.1	0.49	U
179601-23-1	m,p-Xylenes	1.0	6.6	2.2	0.92	J
75-25-2	Bromoform	2.1	3.5	2.1	0.72	U
100-42-5	Styrene	2.1	3.4	2.1	0.57	U
95-47-6	o-Xylene	1.1	3.5	1.1	0.51	U
108-67-8	1,3,5-Trimethylbenzene	0.67	3.5	1.1	0.51	J
95-63-6	1,2,4-Trimethylbenzene	4.1	3.4	1.1	0.49	
120-82-1	1,2,4-Trichlorobenzene	2.1	6.6	2.1	0.85	U
91-20-3	Naphthalene	3.4	3.4	2.0	0.85	J
1330-20-7	Xylenes, Total	1.0	6.6	2.2	0.92	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00894

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.33 Final Pressure (psig): 7.68

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.4	1.4	0.59	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.84</b>	2.4	1.4	0.39	J
74-87-3	Chloromethane	<b>0.49</b>	2.4	1.4	0.39	J
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	U
106-99-0	1,3-Butadiene	1.4	2.4	1.4	0.40	U
75-00-3	Chloroethane	1.4	2.4	1.4	0.30	U
64-17-5	Ethanol	<b>2.3</b>	24	3.8	1.7	J
67-64-1	Acetone	<b>9.4</b>	24	12	5.4	J
75-69-4	Trichlorofluoromethane	<b>0.80</b>	2.3	1.4	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.5	2.9	1.0	U
75-09-2	Methylene Chloride	1.4	2.4	1.4	0.68	U
76-13-1	Trichlorotrifluoroethane	0.77	2.4	0.77	0.34	U
75-15-0	Carbon Disulfide	<b>14</b>	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	<b>1.2</b>	4.5	1.4	0.50	J
141-78-6	Ethyl Acetate	<b>17</b>	4.5	2.9	1.3	
110-54-3	n-Hexane	1.4	2.4	1.4	0.50	U
67-66-3	Chloroform	<b>4.1</b>	2.4	0.77	0.32	
109-99-9	Tetrahydrofuran (THF)	<b>7.5</b>	4.5	0.77	0.30	
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	0.77	2.4	0.77	0.35	U
56-23-5	Carbon Tetrachloride	<b>4.4</b>	2.3	0.77	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV124-250-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-009

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00894

Initial Pressure (psig): -2.33 Final Pressure (psig): 7.68

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.68	U
75-27-4	Bromodichloromethane	0.77	2.4	0.77	0.35	U
79-01-6	Trichloroethene	0.77	2.3	0.77	0.33	U
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	1.4	2.4	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	0.77	4.5	0.77	0.33	U
108-88-3	Toluene	2.0	2.4	0.77	0.29	J
591-78-6	2-Hexanone	0.77	4.5	0.77	0.30	U
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	0.48	2.4	0.77	0.31	J
100-41-4	Ethylbenzene	0.41	2.4	0.77	0.34	J
179601-23-1	m,p-Xylenes	1.9	4.5	1.5	0.63	J
75-25-2	Bromoform	1.4	2.4	1.4	0.50	U
100-42-5	Styrene	1.4	2.4	1.4	0.39	U
95-47-6	o-Xylene	0.62	2.4	0.77	0.35	J
108-67-8	1,3,5-Trimethylbenzene	0.81	2.4	0.77	0.35	J
95-63-6	1,2,4-Trimethylbenzene	5.5	2.4	0.77	0.33	
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.59	U
91-20-3	Naphthalene	4.9	2.4	1.4	0.59	
1330-20-7	Xylenes, Total	2.5	4.5	1.5	0.63	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00044

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.15 Liter(s)

Initial Pressure (psig): -3.65 Final Pressure (psig): 7.04

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	4.2	6.8	4.2	1.7	U
75-71-8	Dichlorodifluoromethane (CFC 12)	4.2	6.8	4.2	1.1	U
74-87-3	Chloromethane	4.2	6.8	4.2	1.1	U
75-01-4	Vinyl Chloride	2.2	7.0	2.2	0.75	U
106-99-0	1,3-Butadiene	4.2	6.8	4.2	1.2	U
75-00-3	Chloroethane	4.2	6.8	4.2	0.87	U
64-17-5	Ethanol	11	70	11	4.9	U
67-64-1	Acetone	35	68	35	16	U
75-69-4	Trichlorofluoromethane	4.2	6.7	4.2	1.1	U
67-63-0	2-Propanol (Isopropyl Alcohol)	8.3	13	8.3	2.9	U
75-09-2	Methylene Chloride	<b>5.1</b>	6.8	4.2	2.0	J
76-13-1	Trichlorotrifluoroethane	2.2	7.0	2.2	1.0	U
75-15-0	Carbon Disulfide	<b>8.0</b>	13	7.1	2.1	J
75-34-3	1,1-Dichloroethane	4.3	7.1	4.3	1.0	U
78-93-3	2-Butanone (MEK)	4.2	13	4.2	1.4	U
141-78-6	Ethyl Acetate	8.5	13	8.5	3.7	U
110-54-3	n-Hexane	4.2	6.8	4.2	1.4	U
67-66-3	Chloroform	2.2	7.0	2.2	0.93	U
109-99-9	Tetrahydrofuran (THF)	<b>2.5</b>	13	2.2	0.88	J
107-06-2	1,2-Dichloroethane	2.2	6.8	2.2	0.77	U
71-43-2	Benzene	<b>15</b>	6.8	2.2	1.0	U
56-23-5	Carbon Tetrachloride	2.2	6.7	2.2	0.97	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00044

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.15 Liter(s)

Initial Pressure (psig): -3.65 Final Pressure (psig): 7.04

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>6.9</b>	13	4.5	2.0	<b>J</b>
75-27-4	Bromodichloromethane	2.2	6.8	2.2	1.0	<b>U</b>
79-01-6	Trichloroethene	<b>1.5</b>	6.7	2.2	0.95	<b>J</b>
123-91-1	1,4-Dioxane	2.2	6.8	2.2	0.83	<b>U</b>
142-82-5	n-Heptane	4.2	6.8	4.2	1.1	<b>U</b>
108-10-1	4-Methyl-2-pentanone	2.2	13	2.2	0.96	<b>U</b>
108-88-3	Toluene	2.2	6.8	2.2	0.85	<b>U</b>
591-78-6	2-Hexanone	2.2	13	2.2	0.87	<b>U</b>
124-48-1	Dibromochloromethane	2.2	6.8	2.2	0.92	<b>U</b>
106-93-4	1,2-Dibromoethane	2.2	6.8	2.2	0.81	<b>U</b>
127-18-4	Tetrachloroethene	2.2	6.8	2.2	0.91	<b>U</b>
100-41-4	Ethylbenzene	2.2	6.8	2.2	0.99	<b>U</b>
179601-23-1	m,p-Xylenes	4.5	13	4.5	1.8	<b>U</b>
75-25-2	Bromoform	4.2	7.0	4.2	1.4	<b>U</b>
100-42-5	Styrene	4.2	6.8	4.2	1.1	<b>U</b>
95-47-6	o-Xylene	2.2	7.0	2.2	1.0	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	2.2	7.0	2.2	1.0	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	2.2	6.8	2.2	0.97	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	4.2	13	4.2	1.7	<b>U</b>
91-20-3	Naphthalene	4.1	6.8	4.1	1.7	<b>U</b>
1330-20-7	Xylenes, Total	4.5	13	4.5	1.8	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01026

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.73 Final Pressure (psig): 8.18

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.71	2.5	1.5	0.62	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.8	2.5	1.5	0.42	J
74-87-3	Chloromethane	3.1	2.5	1.5	0.41	
75-01-4	Vinyl Chloride	1.2	2.5	0.81	0.27	J
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	0.95	2.5	1.5	0.32	J
64-17-5	Ethanol	2.2	25	4.0	1.8	J
67-64-1	Acetone	13	25	13	5.7	U
75-69-4	Trichlorofluoromethane	1.0	2.4	1.5	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	0.38	2.5	0.81	0.36	J
75-15-0	Carbon Disulfide	54	4.8	2.6	0.76	
75-34-3	1,1-Dichloroethane	0.71	2.6	1.6	0.37	J
78-93-3	2-Butanone (MEK)	8.6	4.8	1.5	0.53	
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	1.7	2.5	1.5	0.53	J
67-66-3	Chloroform	310	2.5	0.81	0.34	
109-99-9	Tetrahydrofuran (THF)	36	4.8	0.81	0.32	
107-06-2	1,2-Dichloroethane	0.81	2.5	0.81	0.28	U
71-43-2	Benzene	20	2.5	0.81	0.37	
56-23-5	Carbon Tetrachloride	40	2.4	0.81	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01026

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.73 Final Pressure (psig): 8.18

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	13	4.8	1.6	0.72	
75-27-4	Bromodichloromethane	39	2.5	0.81	0.37	
79-01-6	Trichloroethene	2.2	2.4	0.81	0.34	J
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.41	U
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	U
108-88-3	Toluene	32	2.5	0.81	0.31	
591-78-6	2-Hexanone	0.81	4.8	0.81	0.32	U
124-48-1	Dibromochloromethane	4.0	2.5	0.81	0.33	
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.30	U
127-18-4	Tetrachloroethene	10	2.5	0.81	0.33	
100-41-4	Ethylbenzene	1.8	2.5	0.81	0.36	J
179601-23-1	m,p-Xylenes	3.5	4.8	1.6	0.67	J
75-25-2	Bromoform	1.5	2.5	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	2.8	2.5	0.81	0.37	
108-67-8	1,3,5-Trimethylbenzene	0.50	2.5	0.81	0.37	J
95-63-6	1,2,4-Trimethylbenzene	1.2	2.5	0.81	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	0.67	2.5	1.5	0.62	J
1330-20-7	Xylenes, Total	6.3	4.8	1.6	0.67	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01105

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.18    Final Pressure (psig): 8.11  
 Initial Pressure 2 (psig): 0.04    Final Pressure 2 (psig): 7.36

Container Dilution Factor: 2.96

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.4	3.8	2.4	0.96	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	3.8	2.4	0.64	J
74-87-3	Chloromethane	2.4	3.8	2.4	0.64	U
75-01-4	Vinyl Chloride	1.3	3.9	1.3	0.42	U
106-99-0	1,3-Butadiene	2.4	3.8	2.4	0.65	U
75-00-3	Chloroethane	2.4	3.8	2.4	0.49	U
64-17-5	Ethanol	6.1	39	6.1	2.7	U
67-64-1	Acetone	11	38	20	8.9	J
75-69-4	Trichlorofluoromethane	1.0	3.8	2.4	0.60	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.7	7.4	4.7	1.6	U
75-09-2	Methylene Chloride	2.4	3.8	2.4	1.1	U
76-13-1	Trichlorotrifluoroethane	1.3	3.9	1.3	0.56	U
75-15-0	Carbon Disulfide	1.7	7.4	4.0	1.2	J
75-34-3	1,1-Dichloroethane	2.4	4.0	2.4	0.58	U
78-93-3	2-Butanone (MEK)	2.4	7.4	2.4	0.81	U
141-78-6	Ethyl Acetate	4.8	7.4	4.8	2.1	U
110-54-3	n-Hexane	2.4	3.8	2.4	0.81	U
67-66-3	Chloroform	390	3.9	1.3	0.53	
109-99-9	Tetrahydrofuran (THF)	33	7.4	1.3	0.50	
107-06-2	1,2-Dichloroethane	1.3	3.8	1.3	0.44	U
71-43-2	Benzene	1.3	3.8	1.3	0.57	U
56-23-5	Carbon Tetrachloride	1.7	3.8	1.3	0.55	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01105

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.18    Final Pressure (psig): 8.11  
 Initial Pressure 2 (psig): 0.04    Final Pressure 2 (psig): 7.36

Container Dilution Factor: 2.96

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.5	7.4	2.5	1.1	U
75-27-4	Bromodichloromethane	42	3.8	1.3	0.57	
79-01-6	Trichloroethene	1.3	3.8	1.3	0.53	U
123-91-1	1,4-Dioxane	1.3	3.8	1.3	0.47	U
142-82-5	n-Heptane	2.4	3.8	2.4	0.63	U
108-10-1	4-Methyl-2-pentanone	1.3	7.4	1.3	0.54	U
108-88-3	Toluene	1.1	3.8	1.3	0.48	J
591-78-6	2-Hexanone	1.3	7.4	1.3	0.49	U
124-48-1	Dibromochloromethane	1.3	3.8	1.3	0.52	U
106-93-4	1,2-Dibromoethane	1.3	3.8	1.3	0.46	U
127-18-4	Tetrachloroethene	4.2	3.8	1.3	0.51	
100-41-4	Ethylbenzene	1.3	3.8	1.3	0.56	U
179601-23-1	m,p-Xylenes	2.5	7.4	2.5	1.0	U
75-25-2	Bromoform	2.4	3.9	2.4	0.81	U
100-42-5	Styrene	2.4	3.8	2.4	0.64	U
95-47-6	o-Xylene	1.3	3.9	1.3	0.57	U
108-67-8	1,3,5-Trimethylbenzene	1.3	3.9	1.3	0.57	U
95-63-6	1,2,4-Trimethylbenzene	1.2	3.8	1.3	0.55	J
120-82-1	1,2,4-Trichlorobenzene	2.4	7.4	2.4	0.96	U
91-20-3	Naphthalene	2.3	3.8	2.3	0.96	U
1330-20-7	Xylenes, Total	2.5	7.4	2.5	1.0	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00989

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.02 Final Pressure (psig): 7.62

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.2	2.5	1.5	0.62	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	2.5	1.5	0.42	J
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.81	2.5	0.81	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	4.8	25	4.0	1.8	J
67-64-1	Acetone	19	25	13	5.7	J
75-69-4	Trichlorofluoromethane	0.99	2.4	1.5	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	4.8	3.0	1.1	J
75-09-2	Methylene Chloride	2.6	2.5	1.5	0.72	
76-13-1	Trichlorotrifluoroethane	0.81	2.5	0.81	0.36	U
75-15-0	Carbon Disulfide	45	4.8	2.6	0.76	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	4.4	4.8	1.5	0.53	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.5	1.5	0.53	U
67-66-3	Chloroform	1,100	25	8.1	3.4	D
109-99-9	Tetrahydrofuran (THF)	100	4.8	0.81	0.32	
107-06-2	1,2-Dichloroethane	0.81	2.5	0.81	0.28	U
71-43-2	Benzene	0.40	2.5	0.81	0.37	J
56-23-5	Carbon Tetrachloride	13	2.4	0.81	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00989

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.02 Final Pressure (psig): 7.62

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.72	U
75-27-4	Bromodichloromethane	<b>180</b>	2.5	0.81	0.37	
79-01-6	Trichloroethene	<b>2.5</b>	2.4	0.81	0.34	
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.41	U
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	U
108-88-3	Toluene	<b>1.1</b>	2.5	0.81	0.31	J
591-78-6	2-Hexanone	<b>1.0</b>	4.8	0.81	0.32	J
124-48-1	Dibromochloromethane	<b>6.3</b>	2.5	0.81	0.33	
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.30	U
127-18-4	Tetrachloroethene	<b>12</b>	2.5	0.81	0.33	
100-41-4	Ethylbenzene	0.81	2.5	0.81	0.36	U
179601-23-1	m,p-Xylenes	<b>0.78</b>	4.8	1.6	0.67	J
75-25-2	Bromoform	1.5	2.5	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.81	2.5	0.81	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.81	2.5	0.81	0.37	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.76</b>	2.5	0.81	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	<b>0.78</b>	4.8	1.6	0.67	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00971

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 7.00

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.61	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.5	2.5	1.5	0.41	J
74-87-3	Chloromethane	0.42	2.5	1.5	0.41	J
75-01-4	Vinyl Chloride	0.80	2.5	0.80	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.31	U
64-17-5	Ethanol	3.9	25	3.9	1.7	U
67-64-1	Acetone	13	25	13	5.7	U
75-69-4	Trichlorofluoromethane	1.1	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.7	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	0.37	2.5	0.80	0.36	J
75-15-0	Carbon Disulfide	3.6	4.7	2.6	0.76	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	1.6	4.7	1.5	0.52	J
141-78-6	Ethyl Acetate	3.1	4.7	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.5	1.5	0.52	U
67-66-3	Chloroform	82	2.5	0.80	0.34	
109-99-9	Tetrahydrofuran (THF)	19	4.7	0.80	0.32	
107-06-2	1,2-Dichloroethane	0.80	2.5	0.80	0.28	U
71-43-2	Benzene	0.44	2.5	0.80	0.36	J
56-23-5	Carbon Tetrachloride	38	2.4	0.80	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00971

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 7.00

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.7	1.6	0.71	U
75-27-4	Bromodichloromethane	<b>3.1</b>	2.5	0.80	0.36	
79-01-6	Trichloroethene	<b>0.38</b>	2.4	0.80	0.34	J
123-91-1	1,4-Dioxane	0.80	2.5	0.80	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	0.80	4.7	0.80	0.34	U
108-88-3	Toluene	<b>0.91</b>	2.5	0.80	0.31	J
591-78-6	2-Hexanone	0.80	4.7	0.80	0.31	U
124-48-1	Dibromochloromethane	0.80	2.5	0.80	0.33	U
106-93-4	1,2-Dibromoethane	0.80	2.5	0.80	0.29	U
127-18-4	Tetrachloroethene	<b>12</b>	2.5	0.80	0.33	
100-41-4	Ethylbenzene	0.80	2.5	0.80	0.35	U
179601-23-1	m,p-Xylenes	1.6	4.7	1.6	0.66	U
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.80	2.5	0.80	0.36	U
108-67-8	1,3,5-Trimethylbenzene	0.80	2.5	0.80	0.36	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.69</b>	2.5	0.80	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.61	U
1330-20-7	Xylenes, Total	1.6	4.7	1.6	0.66	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00130

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.47

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.61	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.48</b>	2.5	1.5	0.41	J
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.80	2.5	0.80	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.31	U
64-17-5	Ethanol	3.9	25	3.9	1.7	U
67-64-1	Acetone	<b>34</b>	25	13	5.7	
75-69-4	Trichlorofluoromethane	<b>0.88</b>	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.7	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	0.80	2.5	0.80	0.36	U
75-15-0	Carbon Disulfide	<b>5.7</b>	4.7	2.6	0.76	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	<b>2.2</b>	4.7	1.5	0.52	J
141-78-6	Ethyl Acetate	3.1	4.7	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.5	1.5	0.52	U
67-66-3	Chloroform	<b>1.1</b>	2.5	0.80	0.34	J
109-99-9	Tetrahydrofuran (THF)	<b>14</b>	4.7	0.80	0.32	
107-06-2	1,2-Dichloroethane	0.80	2.5	0.80	0.28	U
71-43-2	Benzene	<b>2.1</b>	2.5	0.80	0.36	J
56-23-5	Carbon Tetrachloride	<b>1.3</b>	2.4	0.80	0.35	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV125-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-015

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00130

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.47

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.7	1.6	0.71	U
75-27-4	Bromodichloromethane	0.80	2.5	0.80	0.36	U
79-01-6	Trichloroethene	0.80	2.4	0.80	0.34	U
123-91-1	1,4-Dioxane	0.80	2.5	0.80	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	0.80	4.7	0.80	0.34	U
108-88-3	Toluene	1.4	2.5	0.80	0.31	J
591-78-6	2-Hexanone	0.80	4.7	0.80	0.31	U
124-48-1	Dibromochloromethane	0.80	2.5	0.80	0.33	U
106-93-4	1,2-Dibromoethane	0.80	2.5	0.80	0.29	U
127-18-4	Tetrachloroethene	0.80	2.5	0.80	0.33	U
100-41-4	Ethylbenzene	0.80	2.5	0.80	0.35	U
179601-23-1	m,p-Xylenes	1.6	4.7	1.6	0.66	U
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.80	2.5	0.80	0.36	U
108-67-8	1,3,5-Trimethylbenzene	0.80	2.5	0.80	0.36	U
95-63-6	1,2,4-Trimethylbenzene	0.55	2.5	0.80	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.61	U
1330-20-7	Xylenes, Total	1.6	4.7	1.6	0.66	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00020

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.12 Final Pressure (psig): 7.90

Container Dilution Factor: 1.95

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.0	2.5	1.6	0.63	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.6	2.5	1.6	0.42	U
74-87-3	Chloromethane	0.54	2.5	1.6	0.42	J
75-01-4	Vinyl Chloride	0.83	2.6	0.83	0.28	U
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.5	1.6	0.32	U
64-17-5	Ethanol	5.1	26	4.0	1.8	J
67-64-1	Acetone	43	25	13	5.9	
75-69-4	Trichlorofluoromethane	1.6	2.5	1.6	0.39	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	4.9	3.1	1.1	J
75-09-2	Methylene Chloride	1.6	2.5	1.6	0.73	U
76-13-1	Trichlorotrifluoroethane	0.83	2.6	0.83	0.37	U
75-15-0	Carbon Disulfide	9.2	4.9	2.6	0.78	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	7.0	4.9	1.6	0.54	
141-78-6	Ethyl Acetate	3.2	4.9	3.2	1.4	U
110-54-3	n-Hexane	1.6	2.5	1.6	0.54	U
67-66-3	Chloroform	0.83	2.6	0.83	0.35	U
109-99-9	Tetrahydrofuran (THF)	14	4.9	0.83	0.33	
107-06-2	1,2-Dichloroethane	0.83	2.5	0.83	0.29	U
71-43-2	Benzene	0.43	2.5	0.83	0.38	J
56-23-5	Carbon Tetrachloride	0.83	2.5	0.83	0.36	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00020

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.12 Final Pressure (psig): 7.90

Container Dilution Factor: 1.95

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.4	4.9	1.7	0.73	J
75-27-4	Bromodichloromethane	0.83	2.5	0.83	0.38	U
79-01-6	Trichloroethene	6.1	2.5	0.83	0.35	J
123-91-1	1,4-Dioxane	1.0	2.5	0.83	0.31	J
142-82-5	n-Heptane	1.6	2.5	1.6	0.41	U
108-10-1	4-Methyl-2-pentanone	0.83	4.9	0.83	0.36	U
108-88-3	Toluene	0.57	2.5	0.83	0.32	J
591-78-6	2-Hexanone	1.8	4.9	0.83	0.32	J
124-48-1	Dibromochloromethane	0.83	2.5	0.83	0.34	U
106-93-4	1,2-Dibromoethane	0.83	2.5	0.83	0.30	U
127-18-4	Tetrachloroethene	0.83	2.5	0.83	0.34	U
100-41-4	Ethylbenzene	0.83	2.5	0.83	0.37	U
179601-23-1	m,p-Xylenes	1.7	4.9	1.7	0.68	U
75-25-2	Bromoform	1.6	2.6	1.6	0.54	U
100-42-5	Styrene	1.6	2.5	1.6	0.42	U
95-47-6	o-Xylene	0.83	2.6	0.83	0.38	U
108-67-8	1,3,5-Trimethylbenzene	0.83	2.6	0.83	0.38	U
95-63-6	1,2,4-Trimethylbenzene	0.55	2.5	0.83	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.63	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	U
1330-20-7	Xylenes, Total	1.7	4.9	1.7	0.68	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00364

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.0050 Liter(s)

Initial Pressure (psig): -2.62 Final Pressure (psig): 8.28

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	120	200	120	49	U
75-71-8	Dichlorodifluoromethane (CFC 12)	120	200	120	33	U
74-87-3	Chloromethane	35	200	120	33	J
75-01-4	Vinyl Chloride	65	200	65	22	U
106-99-0	1,3-Butadiene	120	200	120	33	U
75-00-3	Chloroethane	120	200	120	25	U
64-17-5	Ethanol	320	2,000	320	140	U
67-64-1	Acetone	1,000	2,000	1,000	460	U
75-69-4	Trichlorofluoromethane	120	190	120	31	U
67-63-0	2-Propanol (Isopropyl Alcohol)	240	380	240	84	U
75-09-2	Methylene Chloride	120	200	120	57	U
76-13-1	Trichlorotrifluoroethane	65	200	65	29	U
75-15-0	Carbon Disulfide	190	380	210	61	J
75-34-3	1,1-Dichloroethane	130	210	130	30	U
78-93-3	2-Butanone (MEK)	120	380	120	42	U
141-78-6	Ethyl Acetate	250	380	250	110	U
110-54-3	n-Hexane	120	200	120	42	U
67-66-3	Chloroform	65	200	65	27	U
109-99-9	Tetrahydrofuran (THF)	27	380	65	25	J
107-06-2	1,2-Dichloroethane	65	200	65	22	U
71-43-2	Benzene	150	200	65	29	J
56-23-5	Carbon Tetrachloride	65	190	65	28	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV125-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00364

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.0050 Liter(s)

Initial Pressure (psig): -2.62 Final Pressure (psig): 8.28

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	130	380	130	57	U
75-27-4	Bromodichloromethane	65	200	65	29	U
79-01-6	Trichloroethene	65	190	65	27	U
123-91-1	1,4-Dioxane	65	200	65	24	U
142-82-5	n-Heptane	120	200	120	32	U
108-10-1	4-Methyl-2-pentanone	65	380	65	28	U
108-88-3	Toluene	340	200	65	25	U
591-78-6	2-Hexanone	65	380	65	25	U
124-48-1	Dibromochloromethane	65	200	65	27	U
106-93-4	1,2-Dibromoethane	65	200	65	24	U
127-18-4	Tetrachloroethene	65	200	65	26	U
100-41-4	Ethylbenzene	65	200	65	29	U
179601-23-1	m,p-Xylenes	130	380	130	53	U
75-25-2	Bromoform	120	200	120	42	U
100-42-5	Styrene	120	200	120	33	U
95-47-6	o-Xylene	65	200	65	29	U
108-67-8	1,3,5-Trimethylbenzene	65	200	65	29	U
95-63-6	1,2,4-Trimethylbenzene	65	200	65	28	U
120-82-1	1,2,4-Trichlorobenzene	120	380	120	49	U
91-20-3	Naphthalene	120	200	120	49	U
1330-20-7	Xylenes, Total	130	380	130	53	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00218

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.40 Final Pressure (psig): 7.93

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.60	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	2.4	1.5	0.40	J
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	0.78	2.4	0.78	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	2.0	24	3.8	1.7	J
67-64-1	Acetone	12	24	12	5.5	J
75-69-4	Trichlorofluoromethane	0.98	2.3	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	2.0	2.4	1.5	0.69	J
76-13-1	Trichlorotrifluoroethane	0.41	2.4	0.78	0.35	J
75-15-0	Carbon Disulfide	1.5	4.6	2.5	0.74	J
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	3.4	4.6	1.5	0.51	J
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U
110-54-3	n-Hexane	1.5	2.4	1.5	0.51	U
67-66-3	Chloroform	450	2.4	0.78	0.33	
109-99-9	Tetrahydrofuran (THF)	0.78	4.6	0.78	0.31	U
107-06-2	1,2-Dichloroethane	0.78	2.4	0.78	0.27	U
71-43-2	Benzene	0.63	2.4	0.78	0.35	J
56-23-5	Carbon Tetrachloride	5.3	2.3	0.78	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00218

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.40 Final Pressure (psig): 7.93

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	3.8	4.6	1.6	0.69	J
75-27-4	Bromodichloromethane	48	2.4	0.78	0.35	
79-01-6	Trichloroethene	3.3	2.3	0.78	0.33	
123-91-1	1,4-Dioxane	0.78	2.4	0.78	0.29	U
142-82-5	n-Heptane	1.5	2.4	1.5	0.39	U
108-10-1	4-Methyl-2-pentanone	0.78	4.6	0.78	0.34	U
108-88-3	Toluene	3.6	2.4	0.78	0.30	
591-78-6	2-Hexanone	0.78	4.6	0.78	0.30	U
124-48-1	Dibromochloromethane	0.93	2.4	0.78	0.32	J
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.29	U
127-18-4	Tetrachloroethene	2.5	2.4	0.78	0.32	
100-41-4	Ethylbenzene	0.90	2.4	0.78	0.35	J
179601-23-1	m,p-Xylenes	2.1	4.6	1.6	0.64	J
75-25-2	Bromoform	1.5	2.4	1.5	0.51	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	0.62	2.4	0.78	0.35	J
108-67-8	1,3,5-Trimethylbenzene	0.48	2.4	0.78	0.35	J
95-63-6	1,2,4-Trimethylbenzene	3.0	2.4	0.78	0.34	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.60	U
91-20-3	Naphthalene	1.3	2.4	1.4	0.60	J
1330-20-7	Xylenes, Total	2.7	4.6	1.6	0.64	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV127-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00993

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.51 Final Pressure (psig): 8.99

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.5	1.6	0.63	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	2.5	1.6	0.42	J
74-87-3	Chloromethane	1.6	2.5	1.6	0.42	U
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.5	1.6	0.32	U
64-17-5	Ethanol	60	26	4.0	1.8	
67-64-1	Acetone	25	25	13	5.8	J
75-69-4	Trichlorofluoromethane	1.0	2.5	1.6	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.1	4.9	3.1	1.1	U
75-09-2	Methylene Chloride	1.6	2.5	1.6	0.73	U
76-13-1	Trichlorotrifluoroethane	0.40	2.6	0.82	0.37	J
75-15-0	Carbon Disulfide	3.1	4.9	2.6	0.78	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	81	4.9	1.6	0.53	
141-78-6	Ethyl Acetate	32	4.9	3.2	1.4	
110-54-3	n-Hexane	1.6	2.5	1.6	0.53	U
67-66-3	Chloroform	520	26	8.2	3.4	D
109-99-9	Tetrahydrofuran (THF)	400	4.9	0.82	0.32	
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.29	U
71-43-2	Benzene	0.39	2.5	0.82	0.37	J
56-23-5	Carbon Tetrachloride	19	2.5	0.82	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00993

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.51 Final Pressure (psig): 8.99

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.9	1.6	0.73	U
75-27-4	Bromodichloromethane	<b>78</b>	2.5	0.82	0.37	
79-01-6	Trichloroethene	<b>3.1</b>	2.5	0.82	0.35	
123-91-1	1,4-Dioxane	<b>0.64</b>	2.5	0.82	0.31	<b>J</b>
142-82-5	n-Heptane	1.6	2.5	1.6	0.41	U
108-10-1	4-Methyl-2-pentanone	0.82	4.9	0.82	0.35	U
108-88-3	Toluene	<b>1.2</b>	2.5	0.82	0.32	<b>J</b>
591-78-6	2-Hexanone	0.82	4.9	0.82	0.32	U
124-48-1	Dibromochloromethane	<b>22</b>	2.5	0.82	0.34	
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	<b>6.7</b>	2.5	0.82	0.33	
100-41-4	Ethylbenzene	0.82	2.5	0.82	0.36	U
179601-23-1	m,p-Xylenes	1.6	4.9	1.6	0.68	U
75-25-2	Bromoform	<b>4.0</b>	2.6	1.6	0.53	
100-42-5	Styrene	1.6	2.5	1.6	0.42	U
95-47-6	o-Xylene	0.82	2.6	0.82	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.82	2.6	0.82	0.37	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.64</b>	2.5	0.82	0.36	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.63	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	U
1330-20-7	Xylenes, Total	1.6	4.9	1.6	0.68	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00576

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.71 Final Pressure (psig): 8.11

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.62	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.2	2.5	1.5	0.41	J
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.81	2.5	0.81	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.31	U
64-17-5	Ethanol	3.1	25	3.9	1.8	J
67-64-1	Acetone	15	25	13	5.7	J
75-69-4	Trichlorofluoromethane	0.95	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	0.81	2.5	0.81	0.36	U
75-15-0	Carbon Disulfide	7.4	4.8	2.6	0.76	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	4.3	4.8	1.5	0.52	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.5	1.5	0.52	U
67-66-3	Chloroform	96	2.5	0.81	0.34	
109-99-9	Tetrahydrofuran (THF)	1.4	4.8	0.81	0.32	J
107-06-2	1,2-Dichloroethane	0.81	2.5	0.81	0.28	U
71-43-2	Benzene	0.81	2.5	0.81	0.37	U
56-23-5	Carbon Tetrachloride	22	2.4	0.81	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV127-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-020

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00576

Initial Pressure (psig): -2.71 Final Pressure (psig): 8.11

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.71	U
75-27-4	Bromodichloromethane	8.4	2.5	0.81	0.37	
79-01-6	Trichloroethene	0.36	2.4	0.81	0.34	J
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	U
108-88-3	Toluene	0.80	2.5	0.81	0.31	J
591-78-6	2-Hexanone	0.81	4.8	0.81	0.31	U
124-48-1	Dibromochloromethane	0.37	2.5	0.81	0.33	J
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.29	U
127-18-4	Tetrachloroethene	4.7	2.5	0.81	0.33	
100-41-4	Ethylbenzene	0.81	2.5	0.81	0.36	U
179601-23-1	m,p-Xylenes	1.6	4.8	1.6	0.67	U
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.81	2.5	0.81	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.81	2.5	0.81	0.37	U
95-63-6	1,2,4-Trimethylbenzene	0.55	2.5	0.81	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	1.6	4.8	1.6	0.67	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201019-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201019-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 10/5/20

Analyst: Wida Ang

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 10/19 - 10/20/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201019-MB	98	100	108	70-130	
Method Blank	P201020-MB	98	99	108	70-130	
Lab Control Sample	P201019-LCS	98	97	106	70-130	
Lab Control Sample	P201020-LCS	97	97	107	70-130	
Duplicate Lab Control Sample	P201019-DLCS	98	97	106	70-130	
Duplicate Lab Control Sample	P201020-DLCS	98	97	107	70-130	
SV028-150-204	P2005738-001	99	101	105	70-130	
SV028-250-204	P2005738-002	99	99	105	70-130	
SV028-350-204	P2005738-003	99	99	106	70-130	
SV028-450-204	P2005738-004	98	97	107	70-130	
SV124-025-204	P2005738-005	99	100	108	70-130	
SV124-050-204	P2005738-006	100	98	108	70-130	
SV124-150-204	P2005738-007	99	99	106	70-130	
SV124-250-204	P2005738-008	98	100	107	70-130	
SV124-250-604	P2005738-009	98	100	107	70-130	
SV124-350-204	P2005738-010	98	101	106	70-130	
SV124-350-204	P2005738-010DUP	98	100	106	70-130	
SV124-450-204	P2005738-011	98	101	107	70-130	
SV125-025-204	P2005738-012	98	100	108	70-130	
SV125-050-204	P2005738-013	99	100	108	70-130	
SV125-150-204	P2005738-014	99	100	107	70-130	
SV125-250-204	P2005738-015	98	100	108	70-130	
SV125-350-204	P2005738-016	98	99	108	70-130	
SV125-450-204	P2005738-017	99	99	106	70-130	
SV127-025-204	P2005738-018	99	101	113	70-130	
SV127-050-204	P2005738-019	100	101	112	70-130	
SV127-150-204	P2005738-020	99	99	112	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201019-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD RPD Limit	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
115-07-1	Propene	210	184	177		<b>88</b>	<b>84</b>	57-136	5	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	187	182		<b>89</b>	<b>87</b>	59-128	2	25
74-87-3	Chloromethane	206	213	208		<b>103</b>	<b>101</b>	59-132	2	25
75-01-4	Vinyl Chloride	208	206	198		<b>99</b>	<b>95</b>	64-127	4	25
106-99-0	1,3-Butadiene	210	209	208		<b>100</b>	<b>99</b>	66-134	1	25
75-00-3	Chloroethane	204	194	190		<b>95</b>	<b>93</b>	63-127	2	25
64-17-5	Ethanol	998	847	837		<b>85</b>	<b>84</b>	59-125	1	25
67-64-1	Acetone	1,030	882	872		<b>86</b>	<b>85</b>	58-128	1	25
75-69-4	Trichlorofluoromethane	204	176	173		<b>86</b>	<b>85</b>	62-126	1	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	415	413		<b>102</b>	<b>101</b>	52-125	1	25
75-09-2	Methylene Chloride	208	190	189		<b>91</b>	<b>91</b>	62-115	0	25
76-13-1	Trichlorotrifluoroethane	214	196	195		<b>92</b>	<b>91</b>	66-126	1	25
75-15-0	Carbon Disulfide	428	359	356		<b>84</b>	<b>83</b>	57-134	1	25
75-34-3	1,1-Dichloroethane	212	192	190		<b>91</b>	<b>90</b>	68-126	1	25
78-93-3	2-Butanone (MEK)	412	423	419		<b>103</b>	<b>102</b>	67-130	1	25
141-78-6	Ethyl Acetate	422	540	540		<b>128</b>	<b>128</b>	65-128	0	25
110-54-3	n-Hexane	212	188	186		<b>89</b>	<b>88</b>	63-120	1	25
67-66-3	Chloroform	214	185	183		<b>86</b>	<b>86</b>	68-123	0	25
109-99-9	Tetrahydrofuran (THF)	400	365	361		<b>91</b>	<b>90</b>	64-123	1	25
107-06-2	1,2-Dichloroethane	208	196	194		<b>94</b>	<b>93</b>	65-128	1	25
71-43-2	Benzene	204	186	183		<b>91</b>	<b>90</b>	69-119	1	25
56-23-5	Carbon Tetrachloride	210	175	174		<b>83</b>	<b>83</b>	68-132	0	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201019-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD	RPD	RPD	Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					Limit	
110-82-7	Cyclohexane	416	381	377		92	91	70-117	1	25	
75-27-4	Bromodichloromethane	210	193	192		92	91	72-128	1	25	
79-01-6	Trichloroethene	206	190	188		92	91	71-123	1	25	
123-91-1	1,4-Dioxane	208	213	212		102	102	71-122	0	25	
142-82-5	n-Heptane	210	194	192		92	91	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	416	434	430		104	103	67-130	1	25	
108-88-3	Toluene	206	179	177		87	86	66-119	1	25	
591-78-6	2-Hexanone	404	434	430		107	106	62-128	0.9	25	
124-48-1	Dibromochloromethane	210	197	194		94	92	70-130	2	25	
106-93-4	1,2-Dibromoethane	208	201	200		97	96	74-122	1	25	
127-18-4	Tetrachloroethene	206	182	179		88	87	66-124	1	25	
100-41-4	Ethylbenzene	206	184	183		89	89	70-124	0	25	
179601-23-1	m,p-Xylenes	412	357	353		87	86	61-134	1	25	
75-25-2	Bromoform	208	202	200		97	96	66-139	1	25	
100-42-5	Styrene	206	202	200		98	97	73-127	1	25	
95-47-6	o-Xylene	206	182	180		88	87	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	206	177	174		86	84	67-130	2	25	
95-63-6	1,2,4-Trimethylbenzene	204	185	183		91	90	66-132	1	25	
120-82-1	1,2,4-Trichlorobenzene	388	379	377		98	97	55-142	1	25	
91-20-3	Naphthalene	198	208	206		105	104	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS		LCS	DLCS	LCS	DLCS	Acceptance	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$			Limits	Limit	
115-07-1	Propene	210	177	173	<b>84</b>	<b>82</b>	57-136	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	183	180	<b>87</b>	<b>86</b>	59-128	1	25	
74-87-3	Chloromethane	206	206	200	<b>100</b>	<b>97</b>	59-132	3	25	
75-01-4	Vinyl Chloride	208	200	194	<b>96</b>	<b>93</b>	64-127	3	25	
106-99-0	1,3-Butadiene	210	204	203	<b>97</b>	<b>97</b>	66-134	0	25	
75-00-3	Chloroethane	204	190	185	<b>93</b>	<b>91</b>	63-127	2	25	
64-17-5	Ethanol	998	809	802	<b>81</b>	<b>80</b>	59-125	1	25	
67-64-1	Acetone	1,030	857	841	<b>83</b>	<b>82</b>	58-128	1	25	
75-69-4	Trichlorofluoromethane	204	173	170	<b>85</b>	<b>83</b>	62-126	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	401	394	<b>98</b>	<b>97</b>	52-125	1	25	
75-09-2	Methylene Chloride	208	188	185	<b>90</b>	<b>89</b>	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	214	194	193	<b>91</b>	<b>90</b>	66-126	1	25	
75-15-0	Carbon Disulfide	428	350	346	<b>82</b>	<b>81</b>	57-134	1	25	
75-34-3	1,1-Dichloroethane	212	187	185	<b>88</b>	<b>87</b>	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	411	408	<b>100</b>	<b>99</b>	67-130	1	25	
141-78-6	Ethyl Acetate	422	526	523	<b>125</b>	<b>124</b>	65-128	0.8	25	
110-54-3	n-Hexane	212	182	180	<b>86</b>	<b>85</b>	63-120	1	25	
67-66-3	Chloroform	214	182	180	<b>85</b>	<b>84</b>	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	400	353	351	<b>88</b>	<b>88</b>	64-123	0	25	
107-06-2	1,2-Dichloroethane	208	191	190	<b>92</b>	<b>91</b>	65-128	1	25	
71-43-2	Benzene	204	182	179	<b>89</b>	<b>88</b>	69-119	1	25	
56-23-5	Carbon Tetrachloride	210	174	171	<b>83</b>	<b>81</b>	68-132	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	373	371	90	89	70-117	1	25	
75-27-4	Bromodichloromethane	210	190	189	90	90	72-128	0	25	
79-01-6	Trichloroethene	206	188	187	91	91	71-123	0	25	
123-91-1	1,4-Dioxane	208	211	208	101	100	71-122	1	25	
142-82-5	n-Heptane	210	189	187	90	89	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	416	422	418	101	100	67-130	1	25	
108-88-3	Toluene	206	176	173	85	84	66-119	1	25	
591-78-6	2-Hexanone	404	422	416	104	103	62-128	1	25	
124-48-1	Dibromochloromethane	210	195	191	93	91	70-130	2	25	
106-93-4	1,2-Dibromoethane	208	199	196	96	94	74-122	2	25	
127-18-4	Tetrachloroethene	206	181	178	88	86	66-124	2	25	
100-41-4	Ethylbenzene	206	182	180	88	87	70-124	1	25	
179601-23-1	m,p-Xylenes	412	351	346	85	84	61-134	1	25	
75-25-2	Bromoform	208	201	198	97	95	66-139	2	25	
100-42-5	Styrene	206	199	197	97	96	73-127	1	25	
95-47-6	o-Xylene	206	180	177	87	86	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	206	174	172	84	83	67-130	1	25	
95-63-6	1,2,4-Trimethylbenzene	204	183	180	90	88	66-132	2	25	
120-82-1	1,2,4-Trichlorobenzene	388	378	374	97	96	55-142	1	25	
91-20-3	Naphthalene	198	206	204	104	103	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005738

ALS Sample ID: P2005738-010DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00044

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.15 Liter(s)

Initial Pressure (psig): -3.65

Final Pressure (psig): 7.04

Container Dilution Factor: 1.97

Compound	Sample Result µg/m <sup>3</sup>	Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
		Sample Result µg/m <sup>3</sup>	Sample Result µg/m <sup>3</sup>				
Propene	ND	ND	ND	-	-	25	
Dichlorodifluoromethane (CFC 12)	ND	ND	ND	-	-	25	
Chloromethane	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	-	-	25	
Ethanol	ND	ND	ND	-	-	25	
Acetone	ND	ND	ND	-	-	25	
Trichlorofluoromethane	ND	ND	ND	-	-	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	-	-	25	
Methylene Chloride	5.1	5.1	5.1	5.1	0	25	J
Trichlorotrifluoroethane	ND	ND	ND	-	-	25	
Carbon Disulfide	8.0	8.3	8.15	8.15	4	25	J
1,1-Dichloroethane	ND	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	ND	-	-	25	
Ethyl Acetate	ND	ND	ND	-	-	25	
n-Hexane	ND	ND	ND	-	-	25	
Chloroform	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	2.5	2.5	2.5	2.5	0	25	J
1,2-Dichloroethane	ND	ND	ND	-	-	25	
Benzene	15	16	15.5	15.5	6	25	
Carbon Tetrachloride	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV124-350-204

ALS Project ID: P2005738

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005738-010DUP

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.15 Liter(s)

Test Notes:

Container ID: 1SS00044

Initial Pressure (psig): -3.65

Final Pressure (psig): 7.04

Container Dilution Factor: 1.97

Compound	Sample Result µg/m <sup>3</sup>	Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
		Sample Result µg/m <sup>3</sup>	Sample Result µg/m <sup>3</sup>				
Cyclohexane	6.9	7.1	7	3	25	J	
Bromodichloromethane	ND	ND	-	-	25		
Trichloroethene	1.5	1.4	1.45	7	25	J	
1,4-Dioxane	ND	ND	-	-	25		
n-Heptane	ND	ND	-	-	25		
4-Methyl-2-pentanone	ND	ND	-	-	25		
Toluene	ND	ND	-	-	25		
2-Hexanone	ND	ND	-	-	25		
Dibromochloromethane	ND	ND	-	-	25		
1,2-Dibromoethane	ND	ND	-	-	25		
Tetrachloroethene	ND	ND	-	-	25		
Ethylbenzene	ND	ND	-	-	25		
m,p-Xylenes	ND	ND	-	-	25		
Bromoform	ND	ND	-	-	25		
Styrene	ND	ND	-	-	25		
o-Xylene	ND	ND	-	-	25		
1,3,5-Trimethylbenzene	ND	ND	-	-	25		
1,2,4-Trimethylbenzene	ND	ND	-	-	25		
1,2,4-Trichlorobenzene	ND	ND	-	-	25		
Naphthalene	ND	ND	-	-	25		
Xylenes, Total	ND	ND	-	-	25		

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005738  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 10192001.D  
Analyst: Wida Ang Date Analyzed: 10/19/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 02:38  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	129877	11.20	557937	13.32	261251	17.63
<b>Upper Limit</b>	181828	11.53	781112	13.65	365751	17.96
<b>Lower Limit</b>	77926	10.87	334762	12.99	156751	17.30

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
		AREA #	RT #	AREA #
01	Method Blank	123897	11.18	536664
02	Lab Control Sample	128016	11.20	552027
03	Duplicate Lab Control Sample	126777	11.21	549542
04	SV028-150-204	127839	11.18	558069
05	SV028-250-204	124216	11.19	541806
06	SV028-350-204	126363	11.18	550728
07	SV028-450-204	127793	11.18	558293
08	SV124-025-204	127120	11.18	557616
09	SV124-050-204	129273	11.19	565232
10	SV124-150-204	125795	11.18	550974
11	SV124-250-204	127096	11.18	555317
12	SV124-050-204 (Dilution)	131835	11.18	572210
13	SV125-450-204	129759	11.18	569998
14	SV124-250-604	124154	11.18	546782
15	SV124-350-204	127764	11.18	556691
16	SV124-350-204 (Lab Duplicate)	123897	11.18	539785
17	SV124-450-204	128569	11.19	557542
18	SV125-025-204	123521	11.18	541574
19	SV125-050-204	131595	11.19	568798
20	SV125-050-204 (Dilution)	137112	11.18	593998
21	SV125-150-204	127561	11.18	560277
22	SV125-250-204	124022	11.18	539980
23	SV125-350-204	123199	11.18	529643

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005738  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 10202001.D  
Analyst: Wida Ang Date Analyzed: 10/20/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 00:03  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	126646	11.21	550005	13.32	254798	17.63
<b>Upper Limit</b>	177304	11.54	770007	13.65	356717	17.96
<b>Lower Limit</b>	75988	10.88	330003	12.99	152879	17.30

## Client Sample ID

Client Sample ID	IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
01 Method Blank	124169 11.18	536938 13.31	245379 17.63
02 Lab Control Sample	125359 11.20	539208 13.32	249541 17.63
03 Duplicate Lab Control Sample	125880 11.21	545075 13.32	253231 17.63
04 SV127-025-204	119010 11.19	524636 13.31	233111 17.63
05 SV127-050-204	116166 11.18	512715 13.31	226506 17.63
06 SV127-150-204	114383 11.18	503003 13.31	226011 17.63
07 SV127-050-204 (Dilution)	119774 11.18	524258 13.31	231549 17.63
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



2655 Park Center Dr., Suite A  
Simi Valley, CA 93065  
T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

October 27, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 12, 2020. For your reference, these analyses have been assigned our service request number P2005742.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*Kate Kaneko*  
Oct 27, 2020, 9:42 am

Kate Kaneko  
Project Manager

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RIGHT SOLUTIONS | RIGHT PARTNER



2655 Park Center Dr., Suite A  
 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2005742

## CASE NARRATIVE

The samples were received intact under chain of custody on October 12, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2005742-014	Acetone

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2005742

Date Received: 10/12/2020  
 Time Received: 11:00

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	2nd Pi (psig)	2nd Pf (psig)	TO-15 - VOC Cans
SV127-250-604	P2005742-001	Air	10/5/2020	10:30	1SC00415	-2.54	8.07			X
SV127-250-204	P2005742-002	Air	10/5/2020	10:30	1SC00255	-2.89	9.03			X
SV127-350-204	P2005742-003	Air	10/5/2020	10:34	1SC00287	-2.75	7.90			X
SV127-450-204	P2005742-004	Air	10/5/2020	10:43	1SS00254	-2.41	7.59			X
SV142-030-204	P2005742-005	Air	10/5/2020	12:43	1SC00342	-2.90	8.48			X
SV142-050-204	P2005742-006	Air	10/5/2020	12:46	1SS00163	-3.43	6.97			X
SV142-170-204	P2005742-007	Air	10/5/2020	12:49	1SC00771	-2.68	6.99	-0.27	5.99	X
SV142-170-604	P2005742-008	Air	10/5/2020	12:49	1SS00783	-3.23	7.24			X
SV142-250-204	P2005742-009	Air	10/5/2020	12:56	1SC00521	-1.44	6.81			X
SV142-350-204	P2005742-010	Air	10/5/2020	12:59	1SC01243	-3.25	7.51			X
SV142-450-204	P2005742-011	Air	10/5/2020	13:07	1SC00930	-2.91	8.08			X
SVE06-060-204	P2005742-012	Air	10/5/2020	10:18	1SS00018	-3.87	5.97			X
SVE06-060-604	P2005742-013	Air	10/5/2020	10:18	1SS00108	-4.73	5.83			X
SVE07-160-204	P2005742-014	Air	10/7/2020	11:59	1SC01128	-3.81	7.53			X
SVE08-260-204	P2005742-015	Air	10/7/2020	13:49	1SC00276	-3.39	7.86			X
SVE09-460-204	P2005742-016	Air	10/5/2020	10:39	1SC00918	-3.72	6.49			X
SV03-050-204	P2005742-017	Air	10/5/2020	13:15	1SC00193	-3.36	7.02			X
SV03-100-204	P2005742-018	Air	10/5/2020	13:20	1SC01241	-5.34	6.99			X
SV03-250-204	P2005742-019	Air	10/5/2020	13:26	1SS01053	-4.04	6.16			X
SV03-300-204	P2005742-020	Air	10/5/2020	13:32	1SS00496	-5.41	6.88			X

**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270



COC #: **COC-SV204-03**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
**2005742**

ALS Contact: Kate Kaneko  
 1 (805) 577-2089

**Company Name & Address (Reporting Information)**  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

**Project Manager / Project Chemist**  
 Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143

**Email Address for Result Reporting**

Tara Lamond: [tiamond@eaest.com](mailto:tiamond@eaest.com)  
 Amanda Smith: [asmith@eaest.com](mailto:asmith@eaest.com)  
 Pam Moss: [pmoss@eaest.com](mailto:pmoss@eaest.com)

**Project Name**  
 Kirtland AFB Bulk Fuels Facility

**Project Number**  
 62735DM02

**P.O. # / Billing Information**  
 17682

**Sampler (Print & Sign)**

**Analysis Method**  
 TO-15 Project Specific List

**Comments**  
 e.g. Actual Preservative or specific instructions

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume
SV127-250-604	1	10/5/2020	1030	1SC00415	NA	-28.0	-2.0	1L
SV127-250-204	2	10/5/2020	1030	1SC00255	NA	-25.0	-2.0	1L
SV127-350-204	3	10/5/2020	1034	1SC00287	NA	-25.0	-1.0	1L
SV127-450-204	4	10/5/2020	1043	1SS00254	NA	-25.5	-1.5	1L
SV142-030-204	5	10/5/2020	1243	1SC00342	NA	-26.0	-3.0	1L
SV142-060-204	6	10/5/2020	1246	1SS00163	NA	-24.5	-1.0	1L
SV142-170-204	7	10/5/2020	1249	1SC00771	NA	-25.5	-2.0	1L
SV142-170-604	8	10/5/2020	1249	1SS00783	NA	-24.0	-0.5	1L
SV142-250-204	9	10/5/2020	1256	1SC00521	NA	-23.0	-0.5	1L
SV142-350-204	10	10/5/2020	1259	1SC01243	NA	-25.5	-1.0	1L

FedEX Tracking Number: **1028 3402 2191**

Shipping information: Box number **2 of 6**

Associated with Trip blank: SVTB204-01

**Report Tier Levels - please select**  
 Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: Date: **10/17/20** Time: **1500**

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) Date: **10-12-20** Time: **1100**

Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

EDD required: Yes  
 Type: ERPIMS/EQUIS

Chain of Custody Seal: (Circle)  
 INTACT  BROKEN  ABSENT

Project Requirements: QAPP

Cooler / Blank Temperature NA °C



**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-04**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
**27005742**

ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Analysis Method

TO-15 Project Specific List

Comments  
 e.g. Actual  
 Preservative or  
 specific instructions

Project Name  
 Kirland AFB Bulk Fuels Facility

Project Number  
 62735DM02

P.O. # / Billing Information  
 17682

Sampler (Print & Sign)  
*Stephany Newman*

Company Name & Address (Reporting Information)  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

Project Manager / Project Chemist  
 Devon Jerichovic (505) 715-4248 / Pam Moss (303) 590-9143

Email Address for Result Reporting  
 Tara Lamond: [tlamond@eaest.com](mailto:tlamond@eaest.com)  
 Amanda Smith: [asmith@eaest.com](mailto:asmith@eaest.com)  
 Pam Moss: [pmoss@eaest.com](mailto:pmoss@eaest.com)

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments
SV142-450-204	11	10/5/2020	1307	1SC00930	NA	-24.0	-1.0	1L	None
SVE06-060-204	12	10/5/2020	1018	1SS00018	AVG04729	-26.0	-3.5	1L	None
SVE06-060-604	13	10/5/2020	1018	1SS00108	NA	-24.5	-4.0	1L	None
SVE07-160-204	14	10/7/2020	1159	1SC01128	AVG05100	-24.5	-2.0	1L	None
SVE08-260-204	15	10/7/2020	1349	1SC00276	NA	-24.0	-2.0	1L	None
SVE09-460-204	16	10/5/2020	1039	1SC00918	NA	-25.0	-3.5	1L	None
SV03-050-204	17	10/5/2020	1315	1SC00193	NA	-27.0	-1.5	1L	None
SV03-100-204	18	10/5/2020	1320	1SC01241	NA	-23.0	-4.5	1L	None
SV03-250-204	19	10/5/2020	1326	1SS01053	NA	-28.0	-5.0	1L	None
SV03-300-204	20	10/5/2020	1332	1SS00496	NA	-24.0	-5.0	1L	None

FedEX Tracking Number: **1028 3402 2171**

Shipping information: Box number **2 of 6**

Report Tier Levels - please select  
 Tier I (Results (Default, if not specified)) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Associated with Trip blank: SVTB204-01

EDD required: Yes  
 Type: ERPIMS/EQUIS

Chain of Custody Seal: (Circle)  
 INTACT  BROKEN  ABSENT

Relinquished by: (Signature) \_\_\_\_\_ Date: 10/7/20 Time: 1500

Received by: (Signature) \_\_\_\_\_ Date: 10-12-20 Time: 1100

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Project Requirements: QAPP

Cooler / Blank Temperature: NA °C

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2005742  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/12/20 Date opened: 10/12/20 by: ADAVID

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? <u>Top and bottom of box sealing.</u> Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2005742-001.01	1.0 L Source Can					
P2005742-002.01	1.0 L Source Can					
P2005742-003.01	1.0 L Source Can					
P2005742-004.01	1.0 L Source Silonite Canister					
P2005742-005.01	1.0 L Source Can					
P2005742-006.01	1.0 L Source Silonite Canister					
P2005742-007.01	1.0 L Source Can					
P2005742-008.01	1.0 L Source Silonite Canister					
P2005742-009.01	1.0 L Source Can					
P2005742-010.01	1.0 L Source Can					
P2005742-011.01	1.0 L Source Can					
P2005742-012.01	1.0 L Source Silonite Canister					
P2005742-013.01	1.0 L Source Silonite Canister					
P2005742-014.01	1.0 L Source Can					
P2005742-015.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00415

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 8.07

Container Dilution Factor: 1.87

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.87	1.4	0.87	0.35	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.14</b>	0.49	0.30	0.082	J
74-87-3	Chloromethane	<b>0.22</b>	1.2	0.72	0.19	J
75-01-4	Vinyl Chloride	0.31	0.97	0.31	0.10	U
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	U
75-00-3	Chloroethane	0.57	0.92	0.57	0.12	U
64-17-5	Ethanol	<b>1.9</b>	13	2.1	0.92	J
67-64-1	Acetone	<b>9.5</b>	10	5.3	2.4	J
75-69-4	Trichlorofluoromethane	<b>0.18</b>	0.42	0.27	0.067	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.42	U
75-09-2	Methylene Chloride	0.43	0.70	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	0.10	0.32	0.10	0.046	U
75-15-0	Carbon Disulfide	<b>5.0</b>	1.5	0.81	0.24	
75-34-3	1,1-Dichloroethane	0.38	0.62	0.38	0.090	U
78-93-3	2-Butanone (MEK)	<b>1.5</b>	1.6	0.51	0.17	J
141-78-6	Ethyl Acetate	<b>0.64</b>	1.3	0.84	0.36	J
110-54-3	n-Hexane	0.42	0.69	0.42	0.15	U
67-66-3	Chloroform	<b>0.83</b>	0.51	0.16	0.068	
109-99-9	Tetrahydrofuran (THF)	<b>0.44</b>	1.6	0.27	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.60	0.20	0.068	U
71-43-2	Benzene	0.25	0.76	0.25	0.11	U
56-23-5	Carbon Tetrachloride	<b>0.64</b>	0.38	0.13	0.055	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV127-250-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-001

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00415

Initial Pressure (psig): -2.54 Final Pressure (psig): 8.07

Container Dilution Factor: 1.87

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.46	1.4	0.46	0.20	U
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.054	U
79-01-6	Trichloroethene	0.15	0.44	0.15	0.063	U
123-91-1	1,4-Dioxane	0.22	0.67	0.22	0.082	U
142-82-5	n-Heptane	0.37	0.59	0.37	0.097	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.083	U
108-88-3	Toluene	<b>0.24</b>	0.65	0.21	0.081	J
591-78-6	2-Hexanone	<b>0.18</b>	1.1	0.19	0.075	J
124-48-1	Dibromochloromethane	0.093	0.29	0.093	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	U
127-18-4	Tetrachloroethene	<b>0.062</b>	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	0.18	0.56	0.18	0.081	U
179601-23-1	m,p-Xylenes	<b>0.26</b>	1.1	0.37	0.15	J
75-25-2	Bromoform	0.14	0.24	0.14	0.050	U
100-42-5	Styrene	0.35	0.57	0.35	0.094	U
95-47-6	o-Xylene	0.18	0.57	0.18	0.083	U
108-67-8	1,3,5-Trimethylbenzene	<b>0.091</b>	0.50	0.16	0.073	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.60</b>	0.49	0.16	0.070	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.082	U
91-20-3	Naphthalene	<b>0.17</b>	0.46	0.28	0.12	J
1330-20-7	Xylenes, Total	<b>0.26</b>	1.1	0.37	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00255

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.89 Final Pressure (psig): 9.03

Container Dilution Factor: 2.01

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.99</b>	1.5	0.93	0.38	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.14</b>	0.53	0.33	0.088	<b>J</b>
74-87-3	Chloromethane	0.78	1.3	0.78	0.21	<b>U</b>
75-01-4	Vinyl Chloride	0.33	1.0	0.33	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.73	1.2	0.73	0.20	<b>U</b>
75-00-3	Chloroethane	0.61	0.99	0.61	0.13	<b>U</b>
64-17-5	Ethanol	<b>1.4</b>	14	2.2	0.99	<b>J</b>
67-64-1	Acetone	<b>7.7</b>	11	5.7	2.5	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.18</b>	0.46	0.29	0.072	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.0	1.3	0.45	<b>U</b>
75-09-2	Methylene Chloride	0.46	0.75	0.46	0.22	<b>U</b>
76-13-1	Trichlorotrifluoroethane	0.11	0.35	0.11	0.050	<b>U</b>
75-15-0	Carbon Disulfide	<b>5.0</b>	1.6	0.87	0.26	
75-34-3	1,1-Dichloroethane	0.41	0.67	0.41	0.097	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.2</b>	1.7	0.55	0.19	<b>J</b>
141-78-6	Ethyl Acetate	0.91	1.4	0.91	0.39	<b>U</b>
110-54-3	n-Hexane	0.46	0.74	0.46	0.16	<b>U</b>
67-66-3	Chloroform	<b>0.77</b>	0.55	0.17	0.073	
109-99-9	Tetrahydrofuran (THF)	<b>0.21</b>	1.7	0.29	0.11	<b>J</b>
107-06-2	1,2-Dichloroethane	0.21	0.65	0.21	0.073	<b>U</b>
71-43-2	Benzene	<b>0.12</b>	0.82	0.27	0.12	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.63</b>	0.41	0.14	0.059	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00255

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.89 Final Pressure (psig): 9.03

Container Dilution Factor: 2.01

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.50	1.5	0.50	0.22	U
75-27-4	Bromodichloromethane	0.13	0.39	0.13	0.058	U
79-01-6	Trichloroethene	0.16	0.48	0.16	0.067	U
123-91-1	1,4-Dioxane	<b>0.15</b>	0.73	0.24	0.088	J
142-82-5	n-Heptane	0.39	0.64	0.39	0.10	U
108-10-1	4-Methyl-2-pentanone	0.21	1.2	0.21	0.090	U
108-88-3	Toluene	<b>0.16</b>	0.69	0.23	0.087	J
591-78-6	2-Hexanone	<b>0.20</b>	1.2	0.21	0.081	J
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.041	U
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.041	U
127-18-4	Tetrachloroethene	<b>0.064</b>	0.39	0.13	0.051	J
100-41-4	Ethylbenzene	0.20	0.60	0.20	0.087	U
179601-23-1	m,p-Xylenes	0.39	1.2	0.39	0.16	U
75-25-2	Bromoform	0.16	0.26	0.16	0.053	U
100-42-5	Styrene	0.38	0.61	0.38	0.10	U
95-47-6	o-Xylene	0.20	0.61	0.20	0.089	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.54	0.17	0.079	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.16</b>	0.53	0.17	0.076	J
120-82-1	1,2,4-Trichlorobenzene	0.22	0.68	0.22	0.088	U
91-20-3	Naphthalene	<b>0.24</b>	0.50	0.30	0.12	J
1330-20-7	Xylenes, Total	0.39	1.2	0.39	0.16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00287

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.75 Final Pressure (psig): 7.90

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.88	1.4	0.88	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.14</b>	0.50	0.31	0.083	J
74-87-3	Chloromethane	0.73	1.2	0.73	0.20	U
75-01-4	Vinyl Chloride	0.31	0.98	0.31	0.11	U
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	U
75-00-3	Chloroethane	0.57	0.93	0.57	0.12	U
64-17-5	Ethanol	<b>2.3</b>	13	2.1	0.93	J
67-64-1	Acetone	5.4	10	5.4	2.4	U
75-69-4	Trichlorofluoromethane	0.27	0.43	0.27	0.068	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.42	U
75-09-2	Methylene Chloride	0.44	0.71	0.44	0.20	U
76-13-1	Trichlorotrifluoroethane	0.10	0.33	0.10	0.047	U
75-15-0	Carbon Disulfide	<b>4.3</b>	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	0.39	0.63	0.39	0.091	U
78-93-3	2-Butanone (MEK)	0.51	1.6	0.51	0.18	U
141-78-6	Ethyl Acetate	0.85	1.3	0.85	0.37	U
110-54-3	n-Hexane	<b>0.60</b>	0.70	0.43	0.15	J
67-66-3	Chloroform	0.16	0.51	0.16	0.069	U
109-99-9	Tetrahydrofuran (THF)	<b>0.66</b>	1.6	0.27	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.069	U
71-43-2	Benzene	<b>0.76</b>	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	0.13	0.38	0.13	0.056	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00287

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.75 Final Pressure (psig): 7.90

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1.9</b>	1.4	0.47	0.21	
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.054	U
79-01-6	Trichloroethene	<b>0.19</b>	0.45	0.15	0.063	J
123-91-1	1,4-Dioxane	0.22	0.68	0.22	0.083	U
142-82-5	n-Heptane	0.37	0.60	0.37	0.098	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.084	U
108-88-3	Toluene	<b>0.32</b>	0.65	0.21	0.082	J
591-78-6	2-Hexanone	<b>0.21</b>	1.2	0.20	0.076	J
124-48-1	Dibromochloromethane	0.094	0.29	0.094	0.039	U
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	U
127-18-4	Tetrachloroethene	<b>0.082</b>	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	<b>0.25</b>	1.1	0.37	0.15	J
75-25-2	Bromoform	0.15	0.24	0.15	0.050	U
100-42-5	Styrene	0.36	0.58	0.36	0.095	U
95-47-6	o-Xylene	<b>0.094</b>	0.58	0.19	0.084	J
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.18</b>	0.50	0.16	0.071	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	<b>0.34</b>	1.1	0.37	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00254

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.41 Final Pressure (psig): 7.59

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.84	1.4	0.84	0.34	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.43</b>	0.48	0.29	0.080	J
74-87-3	Chloromethane	<b>0.50</b>	1.1	0.70	0.19	J
75-01-4	Vinyl Chloride	<b>0.12</b>	0.94	0.30	0.10	J
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	U
75-00-3	Chloroethane	0.55	0.89	0.55	0.11	U
64-17-5	Ethanol	2.0	13	2.0	0.89	U
67-64-1	Acetone	<b>3.7</b>	9.9	5.1	2.3	J
75-69-4	Trichlorofluoromethane	<b>0.19</b>	0.41	0.26	0.065	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.8	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	<b>0.057</b>	0.31	0.10	0.045	J
75-15-0	Carbon Disulfide	<b>2.8</b>	1.5	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.087	U
78-93-3	2-Butanone (MEK)	<b>0.83</b>	1.5	0.49	0.17	J
141-78-6	Ethyl Acetate	0.82	1.3	0.82	0.35	U
110-54-3	n-Hexane	0.41	0.67	0.41	0.14	U
67-66-3	Chloroform	<b>110</b>	4.9	1.6	0.66	D
109-99-9	Tetrahydrofuran (THF)	<b>0.69</b>	1.5	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	U
71-43-2	Benzene	<b>0.52</b>	0.74	0.24	0.11	J
56-23-5	Carbon Tetrachloride	<b>2.9</b>	0.37	0.12	0.053	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV127-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00254

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.41 Final Pressure (psig): 7.59

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	11	0.35	0.11	0.052	
79-01-6	Trichloroethene	0.44	0.43	0.14	0.061	
123-91-1	1,4-Dioxane	0.21	0.65	0.21	0.079	U
142-82-5	n-Heptane	0.35	0.57	0.35	0.094	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.081	U
108-88-3	Toluene	0.60	0.62	0.20	0.078	J
591-78-6	2-Hexanone	0.19	1.1	0.19	0.073	U
124-48-1	Dibromochloromethane	1.8	0.28	0.090	0.037	
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	0.88	0.35	0.11	0.046	
100-41-4	Ethylbenzene	0.18	0.54	0.18	0.078	U
179601-23-1	m,p-Xylenes	0.35	1.0	0.35	0.15	U
75-25-2	Bromoform	0.20	0.23	0.14	0.048	J
100-42-5	Styrene	0.34	0.55	0.34	0.091	U
95-47-6	o-Xylene	0.18	0.55	0.18	0.080	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.071	U
95-63-6	1,2,4-Trimethylbenzene	0.076	0.48	0.16	0.068	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.079	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	0.35	1.0	0.35	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-030-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00342

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.90 Final Pressure (psig): 8.48

Container Dilution Factor: 1.96

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.4	1.5	0.91	0.37	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.47	0.52	0.32	0.086	J
74-87-3	Chloromethane	0.76	1.2	0.76	0.20	U
75-01-4	Vinyl Chloride	0.33	1.0	0.33	0.11	U
106-99-0	1,3-Butadiene	0.71	1.2	0.71	0.19	U
75-00-3	Chloroethane	0.59	0.97	0.59	0.12	U
64-17-5	Ethanol	4.2	14	2.2	0.96	J
67-64-1	Acetone	19	11	5.6	2.5	
75-69-4	Trichlorofluoromethane	0.23	0.44	0.28	0.071	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.3	0.44	J
75-09-2	Methylene Chloride	0.45	0.73	0.45	0.21	U
76-13-1	Trichlorotrifluoroethane	0.056	0.34	0.11	0.049	J
75-15-0	Carbon Disulfide	2.1	1.6	0.85	0.25	
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	U
78-93-3	2-Butanone (MEK)	3.2	1.7	0.53	0.18	
141-78-6	Ethyl Acetate	0.88	1.4	0.88	0.38	U
110-54-3	n-Hexane	0.45	0.72	0.45	0.15	U
67-66-3	Chloroform	0.41	0.53	0.17	0.071	J
109-99-9	Tetrahydrofuran (THF)	0.13	1.7	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.21	0.63	0.21	0.071	U
71-43-2	Benzene	0.26	0.80	0.26	0.12	U
56-23-5	Carbon Tetrachloride	0.13	0.40	0.13	0.058	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV142-030-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00342

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.90 Final Pressure (psig): 8.48

Container Dilution Factor: 1.96

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.48	1.4	0.48	0.21	U
75-27-4	Bromodichloromethane	0.12	0.38	0.12	0.056	U
79-01-6	Trichloroethene	3.1	0.47	0.16	0.066	
123-91-1	1,4-Dioxane	0.23	0.71	0.23	0.086	U
142-82-5	n-Heptane	0.38	0.62	0.38	0.10	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.087	U
108-88-3	Toluene	0.11	0.68	0.22	0.085	J
591-78-6	2-Hexanone	0.41	1.2	0.20	0.079	J
124-48-1	Dibromochloromethane	0.098	0.30	0.098	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.040	U
127-18-4	Tetrachloroethene	0.21	0.38	0.12	0.050	J
100-41-4	Ethylbenzene	0.19	0.59	0.19	0.085	U
179601-23-1	m,p-Xylenes	0.38	1.1	0.38	0.16	U
75-25-2	Bromoform	0.15	0.25	0.15	0.052	U
100-42-5	Styrene	0.37	0.60	0.37	0.099	U
95-47-6	o-Xylene	0.19	0.60	0.19	0.087	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.21	0.66	0.21	0.086	U
91-20-3	Naphthalene	0.29	0.49	0.29	0.12	U
1330-20-7	Xylenes, Total	0.38	1.1	0.38	0.16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00163

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.43 Final Pressure (psig): 6.97

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.89	1.5	0.89	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.47</b>	0.50	0.31	0.084	J
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.95	0.58	0.12	U
64-17-5	Ethanol	<b>1.3</b>	14	2.1	0.94	J
67-64-1	Acetone	<b>3.7</b>	11	5.5	2.4	J
75-69-4	Trichlorofluoromethane	<b>0.23</b>	0.44	0.27	0.069	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	<b>0.055</b>	0.33	0.11	0.048	J
75-15-0	Carbon Disulfide	<b>1.6</b>	1.5	0.83	0.25	
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	U
78-93-3	2-Butanone (MEK)	<b>0.37</b>	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.87	1.3	0.87	0.37	U
110-54-3	n-Hexane	0.44	0.71	0.44	0.15	U
67-66-3	Chloroform	<b>0.27</b>	0.52	0.17	0.070	J
109-99-9	Tetrahydrofuran (THF)	0.28	1.6	0.28	0.11	U
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	U
71-43-2	Benzene	<b>0.25</b>	0.78	0.26	0.12	J
56-23-5	Carbon Tetrachloride	0.13	0.39	0.13	0.056	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00163

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.43 Final Pressure (psig): 6.97

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	0.15	0.46	0.15	0.064	U
123-91-1	1,4-Dioxane	<b>0.13</b>	0.69	0.23	0.084	J
142-82-5	n-Heptane	0.37	0.61	0.37	0.10	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	<b>0.087</b>	0.66	0.22	0.083	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	U
124-48-1	Dibromochloromethane	0.096	0.29	0.096	0.039	U
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	U
127-18-4	Tetrachloroethene	0.12	0.37	0.12	0.049	U
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.083	U
179601-23-1	m,p-Xylenes	0.38	1.1	0.38	0.15	U
75-25-2	Bromoform	0.15	0.25	0.15	0.051	U
100-42-5	Styrene	<b>0.26</b>	0.59	0.36	0.097	J
95-47-6	o-Xylene	0.19	0.59	0.19	0.085	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.52	0.17	0.075	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.51	0.17	0.072	U
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.084	U
91-20-3	Naphthalene	0.28	0.48	0.28	0.12	U
1330-20-7	Xylenes, Total	0.38	1.1	0.38	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00771

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.68    Final Pressure (psig): 6.99  
 Initial Pressure 2 (psig): -0.27    Final Pressure 2 (psig): 5.99

Container Dilution Factor: 2.59

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.8	2.0	1.2	0.49	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3.7	0.68	0.42	0.11	
74-87-3	Chloromethane	0.38	1.6	1.0	0.27	J
75-01-4	Vinyl Chloride	0.43	1.3	0.43	0.14	U
106-99-0	1,3-Butadiene	0.94	1.5	0.94	0.26	U
75-00-3	Chloroethane	0.79	1.3	0.79	0.16	U
64-17-5	Ethanol	18	18	2.9	1.3	J
67-64-1	Acetone	20	14	7.4	3.3	
75-69-4	Trichlorofluoromethane	2.1	0.59	0.37	0.093	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.3	2.6	1.7	0.58	J
75-09-2	Methylene Chloride	0.97	0.97	0.60	0.28	
76-13-1	Trichlorotrifluoroethane	0.078	0.45	0.14	0.064	J
75-15-0	Carbon Disulfide	7.8	2.1	1.1	0.33	
75-34-3	1,1-Dichloroethane	0.53	0.86	0.53	0.12	U
78-93-3	2-Butanone (MEK)	3.2	2.2	0.70	0.24	
141-78-6	Ethyl Acetate	5.2	1.8	1.2	0.50	
110-54-3	n-Hexane	0.24	0.96	0.59	0.20	J
67-66-3	Chloroform	0.23	0.70	0.23	0.094	U
109-99-9	Tetrahydrofuran (THF)	0.38	2.2	0.37	0.15	J
107-06-2	1,2-Dichloroethane	0.27	0.83	0.27	0.094	U
71-43-2	Benzene	0.34	1.1	0.34	0.16	U
56-23-5	Carbon Tetrachloride	0.17	0.53	0.18	0.076	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00771

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.68 Final Pressure (psig): 6.99

Initial Pressure 2 (psig): -0.27 Final Pressure 2 (psig): 5.99

Container Dilution Factor: 2.59

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.64	1.9	0.64	0.28	U
75-27-4	Bromodichloromethane	0.16	0.50	0.16	0.074	U
79-01-6	Trichloroethene	0.20	0.61	0.20	0.087	U
123-91-1	1,4-Dioxane	<b>0.18</b>	0.93	0.31	0.11	J
142-82-5	n-Heptane	<b>0.15</b>	0.82	0.51	0.13	J
108-10-1	4-Methyl-2-pentanone	<b>0.16</b>	1.6	0.27	0.12	J
108-88-3	Toluene	<b>1.3</b>	0.89	0.29	0.11	J
591-78-6	2-Hexanone	<b>0.46</b>	1.6	0.27	0.10	J
124-48-1	Dibromochloromethane	0.13	0.40	0.13	0.053	U
106-93-4	1,2-Dibromoethane	0.14	0.44	0.14	0.052	U
127-18-4	Tetrachloroethene	<b>0.075</b>	0.50	0.16	0.066	J
100-41-4	Ethylbenzene	0.25	0.78	0.25	0.11	U
179601-23-1	m,p-Xylenes	0.51	1.5	0.51	0.21	U
75-25-2	Bromoform	0.20	0.33	0.20	0.069	U
100-42-5	Styrene	0.49	0.79	0.49	0.13	U
95-47-6	o-Xylene	0.25	0.79	0.25	0.11	U
108-67-8	1,3,5-Trimethylbenzene	0.22	0.70	0.22	0.10	U
95-63-6	1,2,4-Trimethylbenzene	0.22	0.69	0.22	0.098	U
120-82-1	1,2,4-Trichlorobenzene	0.28	0.87	0.28	0.11	U
91-20-3	Naphthalene	0.38	0.64	0.38	0.16	U
1330-20-7	Xylenes, Total	0.51	1.5	0.51	0.21	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-170-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00783

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.23 Final Pressure (psig): 7.24

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.89	1.4	0.89	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	4.2	0.50	0.31	0.084	
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	0.99	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.94	0.58	0.12	U
64-17-5	Ethanol	1.4	13	2.1	0.94	J
67-64-1	Acetone	3.9	10	5.4	2.4	J
75-69-4	Trichlorofluoromethane	2.3	0.43	0.27	0.069	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	0.074	0.33	0.11	0.047	J
75-15-0	Carbon Disulfide	3.9	1.5	0.83	0.25	
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.092	U
78-93-3	2-Butanone (MEK)	0.73	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	0.076	0.52	0.17	0.069	J
109-99-9	Tetrahydrofuran (THF)	0.49	1.6	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.070	U
71-43-2	Benzene	0.75	0.78	0.25	0.12	J
56-23-5	Carbon Tetrachloride	0.18	0.39	0.13	0.056	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-170-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00783

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.23 Final Pressure (psig): 7.24

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.45</b>	1.4	0.47	0.21	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	<b>U</b>
79-01-6	Trichloroethene	0.15	0.45	0.15	0.064	<b>U</b>
123-91-1	1,4-Dioxane	0.23	0.69	0.23	0.084	<b>U</b>
142-82-5	n-Heptane	0.37	0.61	0.37	0.099	<b>U</b>
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	<b>U</b>
108-88-3	Toluene	<b>0.11</b>	0.66	0.22	0.082	<b>J</b>
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	<b>U</b>
124-48-1	Dibromochloromethane	0.095	0.29	0.095	0.039	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.076</b>	0.37	0.12	0.049	<b>J</b>
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	<b>U</b>
179601-23-1	m,p-Xylenes	0.37	1.1	0.37	0.15	<b>U</b>
75-25-2	Bromoform	0.15	0.24	0.15	0.051	<b>U</b>
100-42-5	Styrene	0.36	0.58	0.36	0.096	<b>U</b>
95-47-6	o-Xylene	0.19	0.58	0.19	0.085	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.17	0.51	0.17	0.075	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.17	0.51	0.17	0.072	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	0.21	0.64	0.21	0.084	<b>U</b>
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	<b>U</b>
1330-20-7	Xylenes, Total	0.37	1.1	0.37	0.15	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00521

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.44 Final Pressure (psig): 6.81

Container Dilution Factor: 1.62

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	8.9	1.2	0.75	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.9	0.43	0.26	0.071	
74-87-3	Chloromethane	0.20	1.0	0.63	0.17	J
75-01-4	Vinyl Chloride	0.27	0.84	0.27	0.090	U
106-99-0	1,3-Butadiene	0.59	0.95	0.59	0.16	U
75-00-3	Chloroethane	0.49	0.80	0.49	0.10	U
64-17-5	Ethanol	65	11	1.8	0.80	
67-64-1	Acetone	25	8.9	4.6	2.0	
75-69-4	Trichlorofluoromethane	2.7	0.37	0.23	0.058	
67-63-0	2-Propanol (Isopropyl Alcohol)	15	1.6	1.0	0.36	
75-09-2	Methylene Chloride	1.8	0.61	0.37	0.17	
76-13-1	Trichlorotrifluoroethane	0.080	0.28	0.090	0.040	J
75-15-0	Carbon Disulfide	2.4	1.3	0.70	0.21	
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	3.5	1.4	0.44	0.15	
141-78-6	Ethyl Acetate	54	1.1	0.73	0.31	
110-54-3	n-Hexane	1.7	0.60	0.37	0.13	
67-66-3	Chloroform	0.33	0.44	0.14	0.059	J
109-99-9	Tetrahydrofuran (THF)	1.7	1.4	0.23	0.092	
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.60	0.66	0.22	0.098	J
56-23-5	Carbon Tetrachloride	0.22	0.33	0.11	0.048	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00521

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.44 Final Pressure (psig): 6.81

Container Dilution Factor: 1.62

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.95</b>	1.2	0.40	0.18	<b>J</b>
75-27-4	Bromodichloromethane	0.10	0.31	0.10	0.047	<b>U</b>
79-01-6	Trichloroethene	<b>0.17</b>	0.38	0.13	0.054	<b>J</b>
123-91-1	1,4-Dioxane	0.19	0.58	0.19	0.071	<b>U</b>
142-82-5	n-Heptane	<b>0.98</b>	0.51	0.32	0.084	
108-10-1	4-Methyl-2-pentanone	<b>0.69</b>	0.99	0.17	0.072	<b>J</b>
108-88-3	Toluene	<b>17</b>	0.56	0.18	0.070	
591-78-6	2-Hexanone	<b>0.60</b>	0.99	0.17	0.065	<b>J</b>
124-48-1	Dibromochloromethane	0.081	0.25	0.081	0.033	<b>U</b>
106-93-4	1,2-Dibromoethane	0.090	0.27	0.090	0.033	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.10</b>	0.31	0.10	0.041	<b>J</b>
100-41-4	Ethylbenzene	<b>0.49</b>	0.49	0.16	0.070	
179601-23-1	m,p-Xylenes	<b>1.6</b>	0.93	0.32	0.13	
75-25-2	Bromoform	0.13	0.21	0.13	0.043	<b>U</b>
100-42-5	Styrene	<b>0.96</b>	0.49	0.30	0.082	
95-47-6	o-Xylene	<b>0.72</b>	0.49	0.16	0.072	
108-67-8	1,3,5-Trimethylbenzene	<b>0.067</b>	0.44	0.14	0.063	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.12</b>	0.43	0.14	0.061	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.17	0.55	0.17	0.071	<b>U</b>
91-20-3	Naphthalene	0.24	0.40	0.24	0.10	<b>U</b>
1330-20-7	Xylenes, Total	<b>2.3</b>	0.93	0.32	0.13	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01243

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.25 Final Pressure (psig): 7.51

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.90	1.5	0.90	0.37	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.99</b>	0.51	0.31	0.085	
74-87-3	Chloromethane	0.75	1.2	0.75	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	U
75-00-3	Chloroethane	0.59	0.96	0.59	0.12	U
64-17-5	Ethanol	<b>1.8</b>	14	2.1	0.95	J
67-64-1	Acetone	<b>5.2</b>	11	5.5	2.5	J
75-69-4	Trichlorofluoromethane	<b>1.2</b>	0.44	0.28	0.070	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	U
75-09-2	Methylene Chloride	0.45	0.73	0.45	0.21	U
76-13-1	Trichlorotrifluoroethane	0.11	0.34	0.11	0.048	U
75-15-0	Carbon Disulfide	<b>2.5</b>	1.6	0.84	0.25	
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	U
78-93-3	2-Butanone (MEK)	<b>0.56</b>	1.6	0.53	0.18	J
141-78-6	Ethyl Acetate	<b>1.7</b>	1.3	0.88	0.38	
110-54-3	n-Hexane	0.44	0.72	0.44	0.15	U
67-66-3	Chloroform	<b>0.94</b>	0.53	0.17	0.071	
109-99-9	Tetrahydrofuran (THF)	<b>1.6</b>	1.6	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.071	U
71-43-2	Benzene	<b>0.50</b>	0.79	0.26	0.12	J
56-23-5	Carbon Tetrachloride	<b>0.14</b>	0.39	0.13	0.057	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01243

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.25 Final Pressure (psig): 7.51

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.21	1.4	0.48	0.21	J
75-27-4	Bromodichloromethane	0.12	0.38	0.12	0.056	U
79-01-6	Trichloroethene	0.15	0.46	0.15	0.065	U
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.085	U
142-82-5	n-Heptane	0.38	0.62	0.38	0.10	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	0.22	0.67	0.22	0.084	U
591-78-6	2-Hexanone	0.20	1.2	0.20	0.078	U
124-48-1	Dibromochloromethane	0.097	0.30	0.097	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	0.12	0.37	0.12	0.049	U
100-41-4	Ethylbenzene	0.19	0.58	0.19	0.084	U
179601-23-1	m,p-Xylenes	0.38	1.1	0.38	0.16	U
75-25-2	Bromoform	0.15	0.25	0.15	0.052	U
100-42-5	Styrene	0.36	0.59	0.36	0.098	U
95-47-6	o-Xylene	0.19	0.59	0.19	0.086	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.52	0.17	0.076	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.51	0.17	0.073	U
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	U
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	U
1330-20-7	Xylenes, Total	0.38	1.1	0.38	0.16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00930

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.91 Final Pressure (psig): 8.08

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.93</b>	1.5	0.90	0.36	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.44</b>	0.51	0.31	0.085	<b>J</b>
74-87-3	Chloromethane	<b>0.33</b>	1.2	0.75	0.20	<b>J</b>
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	<b>U</b>
75-00-3	Chloroethane	0.59	0.95	0.59	0.12	<b>U</b>
64-17-5	Ethanol	<b>3.6</b>	14	2.1	0.95	<b>J</b>
67-64-1	Acetone	<b>13</b>	11	5.5	2.4	
75-69-4	Trichlorofluoromethane	<b>0.18</b>	0.44	0.27	0.070	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	<b>U</b>
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.055</b>	0.33	0.11	0.048	<b>J</b>
75-15-0	Carbon Disulfide	<b>10</b>	1.6	0.84	0.25	
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.8</b>	1.6	0.52	0.18	
141-78-6	Ethyl Acetate	0.87	1.3	0.87	0.38	<b>U</b>
110-54-3	n-Hexane	<b>0.83</b>	0.71	0.44	0.15	
67-66-3	Chloroform	0.17	0.52	0.17	0.070	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>1.6</b>	1.6	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	<b>U</b>
71-43-2	Benzene	<b>16</b>	0.79	0.26	0.12	
56-23-5	Carbon Tetrachloride	0.13	0.39	0.13	0.057	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00930

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.91 Final Pressure (psig): 8.08

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>9.0</b>	1.4	0.48	0.21	
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	0.15	0.46	0.15	0.065	U
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.084	U
142-82-5	n-Heptane	<b>0.20</b>	0.61	0.38	0.10	J
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	<b>1.5</b>	0.67	0.22	0.083	
591-78-6	2-Hexanone	0.20	1.2	0.20	0.078	U
124-48-1	Dibromochloromethane	0.096	0.29	0.096	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	0.12	0.37	0.12	0.049	U
100-41-4	Ethylbenzene	<b>0.91</b>	0.58	0.19	0.083	
179601-23-1	m,p-Xylenes	<b>0.38</b>	1.1	0.38	0.16	J
75-25-2	Bromoform	0.15	0.25	0.15	0.051	U
100-42-5	Styrene	<b>0.17</b>	0.59	0.36	0.097	J
95-47-6	o-Xylene	<b>0.60</b>	0.59	0.19	0.086	
108-67-8	1,3,5-Trimethylbenzene	<b>0.17</b>	0.52	0.17	0.076	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.11</b>	0.51	0.17	0.073	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	U
91-20-3	Naphthalene	<b>0.12</b>	0.48	0.29	0.12	J
1330-20-7	Xylenes, Total	<b>0.99</b>	1.1	0.38	0.16	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE06-060-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00018

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -3.87 Final Pressure (psig): 5.97

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>2,400</b>	2,900	1,800	720	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	620	1,000	620	170	<b>U</b>
74-87-3	Chloromethane	1,500	2,400	1,500	400	<b>U</b>
75-01-4	Vinyl Chloride	640	2,000	640	210	<b>U</b>
106-99-0	1,3-Butadiene	1,400	2,200	1,400	380	<b>U</b>
75-00-3	Chloroethane	1,200	1,900	1,200	240	<b>U</b>
64-17-5	Ethanol	<b>12,000</b>	27,000	4,200	1,900	<b>J</b>
67-64-1	Acetone	<b>72,000</b>	21,000	11,000	4,800	
75-69-4	Trichlorofluoromethane	540	870	540	140	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>3,200</b>	3,900	2,400	860	<b>J</b>
75-09-2	Methylene Chloride	880	1,400	880	410	<b>U</b>
76-13-1	Trichlorotrifluoroethane	210	660	210	95	<b>U</b>
75-15-0	Carbon Disulfide	1,700	3,100	1,700	490	<b>U</b>
75-34-3	1,1-Dichloroethane	780	1,300	780	180	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>15,000</b>	3,200	1,000	360	
141-78-6	Ethyl Acetate	1,700	2,700	1,700	740	<b>U</b>
110-54-3	n-Hexane	<b>270,000</b>	1,400	870	300	
67-66-3	Chloroform	330	1,000	330	140	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	550	3,200	550	220	<b>U</b>
107-06-2	1,2-Dichloroethane	400	1,200	400	140	<b>U</b>
71-43-2	Benzene	<b>68,000</b>	1,600	510	230	
56-23-5	Carbon Tetrachloride	260	770	260	110	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE06-060-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-012

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS00018

Initial Pressure (psig): -3.87 Final Pressure (psig): 5.97

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>280,000</b>	2,800	940	420	
75-27-4	Bromodichloromethane	240	740	240	110	U
79-01-6	Trichloroethene	<b>190</b>	910	300	130	J
123-91-1	1,4-Dioxane	450	1,400	450	170	U
142-82-5	n-Heptane	<b>210,000</b>	1,200	750	200	
108-10-1	4-Methyl-2-pentanone	400	2,300	400	170	U
108-88-3	Toluene	<b>120,000</b>	1,300	430	160	
591-78-6	2-Hexanone	400	2,300	400	150	U
124-48-1	Dibromochloromethane	190	580	190	78	U
106-93-4	1,2-Dibromoethane	210	650	210	77	U
127-18-4	Tetrachloroethene	<b>230</b>	730	240	97	J
100-41-4	Ethylbenzene	<b>26,000</b>	1,100	370	160	
179601-23-1	m,p-Xylenes	<b>28,000</b>	2,200	750	310	
75-25-2	Bromoform	300	490	300	100	U
100-42-5	Styrene	720	1,200	720	190	U
95-47-6	o-Xylene	<b>11,000</b>	1,200	370	170	
108-67-8	1,3,5-Trimethylbenzene	<b>2,800</b>	1,000	330	150	
95-63-6	1,2,4-Trimethylbenzene	<b>8,500</b>	1,000	330	140	
120-82-1	1,2,4-Trichlorobenzene	410	1,300	410	170	U
91-20-3	Naphthalene	<b>280</b>	950	560	240	J
1330-20-7	Xylenes, Total	<b>38,000</b>	2,200	750	310	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE06-060-604

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-013

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS00108

Initial Pressure (psig): -4.73 Final Pressure (psig): 5.83

Container Dilution Factor: 2.06

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1,900	3,100	1,900	780	J
75-71-8	Dichlorodifluoromethane (CFC 12)	670	1,100	670	180	U
74-87-3	Chloromethane	1,600	2,600	1,600	430	U
75-01-4	Vinyl Chloride	690	2,100	690	230	U
106-99-0	1,3-Butadiene	1,500	2,400	1,500	410	U
75-00-3	Chloroethane	1,200	2,000	1,200	260	U
64-17-5	Ethanol	7,000	29,000	4,500	2,000	J
67-64-1	Acetone	47,000	23,000	12,000	5,200	
75-69-4	Trichlorofluoromethane	590	940	590	150	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,900	4,200	2,600	920	J
75-09-2	Methylene Chloride	950	1,500	950	440	U
76-13-1	Trichlorotrifluoroethane	230	710	230	100	U
75-15-0	Carbon Disulfide	1,800	3,300	1,800	530	U
75-34-3	1,1-Dichloroethane	840	1,400	840	200	U
78-93-3	2-Butanone (MEK)	9,000	3,500	1,100	380	
141-78-6	Ethyl Acetate	1,900	2,900	1,900	800	U
110-54-3	n-Hexane	200,000	1,500	940	320	
67-66-3	Chloroform	360	1,100	360	150	U
109-99-9	Tetrahydrofuran (THF)	590	3,500	590	230	U
107-06-2	1,2-Dichloroethane	430	1,300	430	150	U
71-43-2	Benzene	45,000	1,700	550	250	
56-23-5	Carbon Tetrachloride	280	840	280	120	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE06-060-604

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-013

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS00108

Initial Pressure (psig): -4.73 Final Pressure (psig): 5.83

Container Dilution Factor: 2.06

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>200,000</b>	3,000	1,000	450	
75-27-4	Bromodichloromethane	260	800	260	120	U
79-01-6	Trichloroethene	330	980	330	140	U
123-91-1	1,4-Dioxane	490	1,500	490	180	U
142-82-5	n-Heptane	<b>150,000</b>	1,300	800	210	
108-10-1	4-Methyl-2-pentanone	430	2,500	430	180	U
108-88-3	Toluene	<b>76,000</b>	1,400	460	180	
591-78-6	2-Hexanone	430	2,500	430	170	U
124-48-1	Dibromochloromethane	210	630	210	85	U
106-93-4	1,2-Dibromoethane	230	700	230	83	U
127-18-4	Tetrachloroethene	260	790	260	100	U
100-41-4	Ethylbenzene	<b>14,000</b>	1,200	400	180	
179601-23-1	m,p-Xylenes	<b>15,000</b>	2,400	810	330	
75-25-2	Bromoform	320	530	320	110	U
100-42-5	Styrene	770	1,300	770	210	U
95-47-6	o-Xylene	<b>5,600</b>	1,300	400	180	
108-67-8	1,3,5-Trimethylbenzene	<b>1,400</b>	1,100	360	160	
95-63-6	1,2,4-Trimethylbenzene	<b>4,100</b>	1,100	360	160	
120-82-1	1,2,4-Trichlorobenzene	440	1,400	440	180	U
91-20-3	Naphthalene	610	1,000	610	260	U
1330-20-7	Xylenes, Total	<b>20,000</b>	2,400	810	330	

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 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE07-160-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-014

Test Code: EPA TO-15

Date Collected: 10/7/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.000050 Liter(s)

Test Notes:

0.0000070 Liter(s)

Container ID: 1SC01128

Initial Pressure (psig): -3.81 Final Pressure (psig): 7.53

Container Dilution Factor: 2.04

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	12,000	12,000	7,600	3,100	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2,600	4,300	2,600	720	U
74-87-3	Chloromethane	6,300	10,000	6,300	1,700	U
75-01-4	Vinyl Chloride	2,700	8,500	2,700	910	U
106-99-0	1,3-Butadiene	5,900	9,600	5,900	1,600	U
75-00-3	Chloroethane	4,900	8,000	4,900	1,000	U
64-17-5	Ethanol	18,000	110,000	18,000	8,000	U
67-64-1	Acetone	130,000	89,000	46,000	21,000	
75-69-4	Trichlorofluoromethane	2,300	3,700	2,300	590	U
67-63-0	2-Propanol (Isopropyl Alcohol)	10,000	17,000	10,000	3,700	U
75-09-2	Methylene Chloride	3,800	6,100	3,800	1,800	U
76-13-1	Trichlorotrifluoroethane	910	2,800	910	400	U
75-15-0	Carbon Disulfide	7,100	13,000	7,100	2,100	U
75-34-3	1,1-Dichloroethane	3,300	5,400	3,300	790	U
78-93-3	2-Butanone (MEK)	46,000	14,000	4,400	1,500	
141-78-6	Ethyl Acetate	7,400	11,000	7,400	3,200	U
110-54-3	n-Hexane	2,300,000	43,000	26,000	9,100	D
67-66-3	Chloroform	1,400	4,400	1,400	590	U
109-99-9	Tetrahydrofuran (THF)	2,400	14,000	2,400	930	U
107-06-2	1,2-Dichloroethane	1,700	5,200	1,700	590	U
71-43-2	Benzene	290,000	6,600	2,200	980	
56-23-5	Carbon Tetrachloride	1,100	3,300	1,100	480	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE07-160-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-014

Test Code: EPA TO-15

Date Collected: 10/7/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.000050 Liter(s)

Test Notes:

0.000070 Liter(s)

Container ID: 1SC01128

Initial Pressure (psig): -3.81 Final Pressure (psig): 7.53

Container Dilution Factor: 2.04

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	1,000,000	12,000	4,000	1,800	
75-27-4	Bromodichloromethane	1,000	3,200	1,000	470	U
79-01-6	Trichloroethene	1,300	3,900	1,300	550	U
123-91-1	1,4-Dioxane	1,900	5,900	1,900	710	U
142-82-5	n-Heptane	660,000	5,200	3,200	850	
108-10-1	4-Methyl-2-pentanone	1,700	10,000	1,700	730	U
108-88-3	Toluene	250,000	5,600	1,800	700	
591-78-6	2-Hexanone	1,700	10,000	1,700	660	U
124-48-1	Dibromochloromethane	810	2,500	810	340	U
106-93-4	1,2-Dibromoethane	900	2,800	900	330	U
127-18-4	Tetrachloroethene	1,000	3,100	1,000	420	U
100-41-4	Ethylbenzene	23,000	4,900	1,600	700	
179601-23-1	m,p-Xylenes	45,000	9,400	3,200	1,300	
75-25-2	Bromoform	1,300	2,100	1,300	430	U
100-42-5	Styrene	3,100	5,000	3,100	820	U
95-47-6	o-Xylene	14,000	5,000	1,600	720	
108-67-8	1,3,5-Trimethylbenzene	2,000	4,400	1,400	640	J
95-63-6	1,2,4-Trimethylbenzene	5,000	4,300	1,400	610	
120-82-1	1,2,4-Trichlorobenzene	1,800	5,500	1,800	710	U
91-20-3	Naphthalene	2,400	4,000	2,400	1,000	U
1330-20-7	Xylenes, Total	60,000	9,400	3,200	1,300	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE08-260-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-015

Test Code: EPA TO-15

Date Collected: 10/7/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0050 Liter(s)

Test Notes:

Container ID: 1SC00276

Initial Pressure (psig): -3.39 Final Pressure (psig): 7.86

Container Dilution Factor: 1.99

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	31	120	74	30	J
75-71-8	Dichlorodifluoromethane (CFC 12)	26	42	26	7.0	U
74-87-3	Chloromethane	62	100	62	17	U
75-01-4	Vinyl Chloride	26	83	26	8.9	U
106-99-0	1,3-Butadiene	58	94	58	16	U
75-00-3	Chloroethane	48	78	48	10	U
64-17-5	Ethanol	180	1,100	180	78	U
67-64-1	Acetone	450	870	450	200	U
75-69-4	Trichlorofluoromethane	23	36	23	5.7	U
67-63-0	2-Propanol (Isopropyl Alcohol)	54	160	100	36	J
75-09-2	Methylene Chloride	37	60	37	17	U
76-13-1	Trichlorotrifluoroethane	8.8	28	8.8	3.9	U
75-15-0	Carbon Disulfide	69	130	69	20	U
75-34-3	1,1-Dichloroethane	32	53	32	7.7	U
78-93-3	2-Butanone (MEK)	16	140	43	15	J
141-78-6	Ethyl Acetate	72	110	72	31	U
110-54-3	n-Hexane	490	59	36	12	
67-66-3	Chloroform	14	43	14	5.8	U
109-99-9	Tetrahydrofuran (THF)	23	140	23	9.0	U
107-06-2	1,2-Dichloroethane	17	51	17	5.8	U
71-43-2	Benzene	11,000	65	21	9.6	
56-23-5	Carbon Tetrachloride	11	32	11	4.7	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE08-260-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-015

Test Code: EPA TO-15

Date Collected: 10/7/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0050 Liter(s)

Test Notes:

Container ID: 1SC00276

Initial Pressure (psig): -3.39 Final Pressure (psig): 7.86

Container Dilution Factor: 1.99

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>6,800</b>	120	39	17	
75-27-4	Bromodichloromethane	10	31	10	4.6	U
79-01-6	Trichloroethene	13	38	13	5.3	U
123-91-1	1,4-Dioxane	19	57	19	7.0	U
142-82-5	n-Heptane	<b>44</b>	51	31	8.3	J
108-10-1	4-Methyl-2-pentanone	17	97	17	7.1	U
108-88-3	Toluene	18	55	18	6.9	U
591-78-6	2-Hexanone	17	97	17	6.4	U
124-48-1	Dibromochloromethane	7.9	24	7.9	3.3	U
106-93-4	1,2-Dibromoethane	8.8	27	8.8	3.2	U
127-18-4	Tetrachloroethene	<b>4.1</b>	31	10	4.1	J
100-41-4	Ethylbenzene	16	48	16	6.9	U
179601-23-1	m,p-Xylenes	31	92	31	13	U
75-25-2	Bromoform	12	20	12	4.2	U
100-42-5	Styrene	30	49	30	8.0	U
95-47-6	o-Xylene	16	49	16	7.1	U
108-67-8	1,3,5-Trimethylbenzene	14	43	14	6.2	U
95-63-6	1,2,4-Trimethylbenzene	14	42	14	6.0	U
120-82-1	1,2,4-Trichlorobenzene	17	54	17	7.0	U
91-20-3	Naphthalene	24	39	24	9.9	U
1330-20-7	Xylenes, Total	31	92	31	13	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE09-460-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00918

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.72 Final Pressure (psig): 6.49

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3.7	1.5	0.90	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.46	0.51	0.31	0.085	J
74-87-3	Chloromethane	0.29	1.2	0.75	0.20	J
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	U
75-00-3	Chloroethane	0.59	0.95	0.59	0.12	U
64-17-5	Ethanol	6.9	14	2.1	0.95	J
67-64-1	Acetone	35	11	5.5	2.4	
75-69-4	Trichlorofluoromethane	0.26	0.44	0.27	0.070	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	2.0	1.2	0.43	
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	0.11	0.33	0.11	0.048	J
75-15-0	Carbon Disulfide	1.0	1.6	0.84	0.25	J
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	U
78-93-3	2-Butanone (MEK)	6.0	1.6	0.52	0.18	
141-78-6	Ethyl Acetate	0.87	1.3	0.87	0.38	U
110-54-3	n-Hexane	16	0.71	0.44	0.15	
67-66-3	Chloroform	0.14	0.52	0.17	0.070	J
109-99-9	Tetrahydrofuran (THF)	0.28	1.6	0.28	0.11	U
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	U
71-43-2	Benzene	48	0.79	0.26	0.12	
56-23-5	Carbon Tetrachloride	0.075	0.39	0.13	0.057	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE09-460-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00918

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.72 Final Pressure (psig): 6.49

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>35</b>	1.4	0.48	0.21	
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	0.15	0.46	0.15	0.065	U
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.084	U
142-82-5	n-Heptane	<b>21</b>	0.61	0.38	0.10	
108-10-1	4-Methyl-2-pentanone	<b>0.28</b>	1.2	0.20	0.086	J
108-88-3	Toluene	<b>27</b>	0.67	0.22	0.083	
591-78-6	2-Hexanone	0.20	1.2	0.20	0.078	U
124-48-1	Dibromochloromethane	0.096	0.29	0.096	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.26</b>	0.37	0.12	0.049	J
100-41-4	Ethylbenzene	<b>8.9</b>	0.58	0.19	0.083	
179601-23-1	m,p-Xylenes	<b>13</b>	1.1	0.38	0.16	
75-25-2	Bromoform	0.15	0.25	0.15	0.051	U
100-42-5	Styrene	0.36	0.59	0.36	0.097	U
95-47-6	o-Xylene	<b>4.6</b>	0.59	0.19	0.086	
108-67-8	1,3,5-Trimethylbenzene	<b>2.4</b>	0.52	0.17	0.076	
95-63-6	1,2,4-Trimethylbenzene	<b>7.6</b>	0.51	0.17	0.073	
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	U
91-20-3	Naphthalene	<b>0.97</b>	0.48	0.29	0.12	
1330-20-7	Xylenes, Total	<b>17</b>	1.1	0.38	0.16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-050-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-017

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00193

Initial Pressure (psig): -3.36 Final Pressure (psig): 7.02

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.5	1.5	0.89	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.48	0.50	0.31	0.084	J
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.95	0.58	0.12	U
64-17-5	Ethanol	1.7	14	2.1	0.94	J
67-64-1	Acetone	12	11	5.5	2.4	
75-69-4	Trichlorofluoromethane	0.29	0.44	0.27	0.069	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.0	2.0	1.2	0.43	J
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	10	0.33	0.11	0.048	
75-15-0	Carbon Disulfide	21	1.5	0.83	0.25	
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	U
78-93-3	2-Butanone (MEK)	1.4	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.87	1.3	0.87	0.37	U
110-54-3	n-Hexane	0.76	0.71	0.44	0.15	
67-66-3	Chloroform	0.17	0.52	0.17	0.070	U
109-99-9	Tetrahydrofuran (THF)	0.28	1.6	0.28	0.11	U
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	U
71-43-2	Benzene	1.9	0.78	0.26	0.12	
56-23-5	Carbon Tetrachloride	0.83	0.39	0.13	0.056	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV03-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00193

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.36 Final Pressure (psig): 7.02

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	1.1	1.4	0.47	0.21	J
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	0.15	0.46	0.15	0.064	U
123-91-1	1,4-Dioxane	0.23	0.69	0.23	0.084	U
142-82-5	n-Heptane	1.2	0.61	0.37	0.10	
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	3.8	0.66	0.22	0.083	
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	U
124-48-1	Dibromochloromethane	0.096	0.29	0.096	0.039	U
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	U
127-18-4	Tetrachloroethene	0.67	0.37	0.12	0.049	
100-41-4	Ethylbenzene	0.46	0.57	0.19	0.083	J
179601-23-1	m,p-Xylenes	1.6	1.1	0.38	0.15	
75-25-2	Bromoform	0.15	0.25	0.15	0.051	U
100-42-5	Styrene	0.36	0.59	0.36	0.097	U
95-47-6	o-Xylene	0.50	0.59	0.19	0.085	J
108-67-8	1,3,5-Trimethylbenzene	0.21	0.52	0.17	0.075	J
95-63-6	1,2,4-Trimethylbenzene	0.92	0.51	0.17	0.072	
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.084	U
91-20-3	Naphthalene	0.65	0.48	0.28	0.12	
1330-20-7	Xylenes, Total	2.1	1.1	0.38	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01241

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.00050 Liter(s)

0.00010 Liter(s)

Initial Pressure (psig): -5.34 Final Pressure (psig): 6.99

Container Dilution Factor: 2.32

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	390	1,400	860	350	J
75-71-8	Dichlorodifluoromethane (CFC 12)	300	490	300	82	U
74-87-3	Chloromethane	720	1,200	720	190	U
75-01-4	Vinyl Chloride	310	960	310	100	U
106-99-0	1,3-Butadiene	670	1,100	670	180	U
75-00-3	Chloroethane	560	910	560	120	U
64-17-5	Ethanol	2,000	13,000	2,000	910	U
67-64-1	Acetone	5,300	10,000	5,300	2,300	U
75-69-4	Trichlorofluoromethane	260	420	260	67	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,200	1,900	1,200	420	U
75-09-2	Methylene Chloride	430	690	430	200	U
76-13-1	Trichlorotrifluoroethane	100	320	100	46	U
75-15-0	Carbon Disulfide	800	1,500	800	240	U
75-34-3	1,1-Dichloroethane	380	620	380	89	U
78-93-3	2-Butanone (MEK)	500	1,600	500	170	U
141-78-6	Ethyl Acetate	840	1,300	840	360	U
110-54-3	n-Hexane	250,000	3,400	2,100	720	D
67-66-3	Chloroform	160	500	160	67	U
109-99-9	Tetrahydrofuran (THF)	270	1,600	270	110	U
107-06-2	1,2-Dichloroethane	190	600	190	68	U
71-43-2	Benzene	9,500	760	250	110	
56-23-5	Carbon Tetrachloride	130	380	130	55	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-100-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-018

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00050 Liter(s)

Test Notes:

0.00010 Liter(s)

Container ID: 1SC01241

Initial Pressure (psig): -5.34 Final Pressure (psig): 6.99

Container Dilution Factor: 2.32

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	560,000	6,700	2,300	1,000	D
75-27-4	Bromodichloromethane	120	360	120	53	U
79-01-6	Trichloroethene	150	440	150	62	U
123-91-1	1,4-Dioxane	220	670	220	81	U
142-82-5	n-Heptane	140,000	2,900	1,800	480	D
108-10-1	4-Methyl-2-pentanone	190	1,100	190	83	U
108-88-3	Toluene	18,000	640	210	80	
591-78-6	2-Hexanone	190	1,100	190	75	U
124-48-1	Dibromochloromethane	93	280	93	38	U
106-93-4	1,2-Dibromoethane	100	310	100	37	U
127-18-4	Tetrachloroethene	120	360	120	47	U
100-41-4	Ethylbenzene	2,800	560	180	80	
179601-23-1	m,p-Xylenes	3,900	1,100	360	150	
75-25-2	Bromoform	140	240	140	49	U
100-42-5	Styrene	350	570	350	94	U
95-47-6	o-Xylene	1,200	570	180	82	
108-67-8	1,3,5-Trimethylbenzene	440	500	160	73	J
95-63-6	1,2,4-Trimethylbenzene	93	490	160	70	J
120-82-1	1,2,4-Trichlorobenzene	200	630	200	81	U
91-20-3	Naphthalene	270	460	270	120	U
1330-20-7	Xylenes, Total	5,100	1,100	360	150	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-250-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-019

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

Container ID: 1SS01053

Initial Pressure (psig): -4.04 Final Pressure (psig): 6.16

Container Dilution Factor: 1.96

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3,600	5,900	3,600	1,500	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1,300	2,100	1,300	340	U
74-87-3	Chloromethane	3,000	4,900	3,000	820	U
75-01-4	Vinyl Chloride	1,300	4,100	1,300	440	U
106-99-0	1,3-Butadiene	2,800	4,600	2,800	780	U
75-00-3	Chloroethane	2,400	3,900	2,400	490	U
64-17-5	Ethanol	8,600	55,000	8,600	3,900	U
67-64-1	Acetone	22,000	43,000	22,000	9,900	U
75-69-4	Trichlorofluoromethane	1,100	1,800	1,100	280	U
67-63-0	2-Propanol (Isopropyl Alcohol)	5,000	8,000	5,000	1,800	U
75-09-2	Methylene Chloride	1,800	2,900	1,800	850	U
76-13-1	Trichlorotrifluoroethane	430	1,400	430	190	U
75-15-0	Carbon Disulfide	3,400	6,300	3,400	1,000	U
75-34-3	1,1-Dichloroethane	1,600	2,600	1,600	380	U
78-93-3	2-Butanone (MEK)	2,100	6,600	2,100	730	U
141-78-6	Ethyl Acetate	3,500	5,400	3,500	1,500	U
110-54-3	n-Hexane	<b>410,000</b>	2,900	1,800	610	
67-66-3	Chloroform	680	2,100	680	290	U
109-99-9	Tetrahydrofuran (THF)	1,100	6,600	1,100	450	U
107-06-2	1,2-Dichloroethane	820	2,500	820	290	U
71-43-2	Benzene	<b>140,000</b>	3,200	1,000	470	
56-23-5	Carbon Tetrachloride	530	1,600	530	230	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-250-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-019

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

Container ID: 1SS01053

Initial Pressure (psig): -4.04 Final Pressure (psig): 6.16

Container Dilution Factor: 1.96

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>390,000</b>	5,700	1,900	850	
75-27-4	Bromodichloromethane	500	1,500	500	230	U
79-01-6	Trichloroethene	620	1,900	620	260	U
123-91-1	1,4-Dioxane	920	2,800	920	340	U
142-82-5	n-Heptane	<b>340,000</b>	2,500	1,500	410	
108-10-1	4-Methyl-2-pentanone	810	4,800	810	350	U
108-88-3	Toluene	<b>260,000</b>	2,700	880	340	
591-78-6	2-Hexanone	810	4,800	810	320	U
124-48-1	Dibromochloromethane	390	1,200	390	160	U
106-93-4	1,2-Dibromoethane	430	1,300	430	160	U
127-18-4	Tetrachloroethene	490	1,500	490	200	U
100-41-4	Ethylbenzene	<b>19,000</b>	2,300	770	340	
179601-23-1	m,p-Xylenes	<b>60,000</b>	4,500	1,500	630	
75-25-2	Bromoform	610	1,000	610	210	U
100-42-5	Styrene	1,500	2,400	1,500	400	U
95-47-6	o-Xylene	<b>18,000</b>	2,400	770	350	
108-67-8	1,3,5-Trimethylbenzene	<b>1,900</b>	2,100	680	310	J
95-63-6	1,2,4-Trimethylbenzene	<b>2,400</b>	2,100	680	300	
120-82-1	1,2,4-Trichlorobenzene	850	2,600	850	340	U
91-20-3	Naphthalene	1,200	1,900	1,200	490	U
1330-20-7	Xylenes, Total	<b>78,000</b>	4,500	1,500	630	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-300-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00496

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.00015 Liter(s)

Initial Pressure (psig): -5.41 Final Pressure (psig): 6.88

Container Dilution Factor: 2.32

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2,900	4,700	2,900	1,200	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1,000	1,600	1,000	270	U
74-87-3	Chloromethane	2,400	3,900	2,400	640	U
75-01-4	Vinyl Chloride	1,000	3,200	1,000	350	U
106-99-0	1,3-Butadiene	2,200	3,600	2,200	620	U
75-00-3	Chloroethane	1,900	3,000	1,900	390	U
64-17-5	Ethanol	6,800	44,000	6,800	3,000	U
67-64-1	Acetone	18,000	34,000	18,000	7,800	U
75-69-4	Trichlorofluoromethane	880	1,400	880	220	U
67-63-0	2-Propanol (Isopropyl Alcohol)	4,000	6,300	4,000	1,400	U
75-09-2	Methylene Chloride	1,400	2,300	1,400	670	U
76-13-1	Trichlorotrifluoroethane	340	1,100	340	150	U
75-15-0	Carbon Disulfide	2,700	5,000	2,700	790	U
75-34-3	1,1-Dichloroethane	1,300	2,100	1,300	300	U
78-93-3	2-Butanone (MEK)	1,700	5,200	1,700	580	U
141-78-6	Ethyl Acetate	2,800	4,300	2,800	1,200	U
110-54-3	n-Hexane	<b>270,000</b>	2,300	1,400	480	
67-66-3	Chloroform	540	1,700	540	220	U
109-99-9	Tetrahydrofuran (THF)	890	5,200	890	350	U
107-06-2	1,2-Dichloroethane	650	2,000	650	230	U
71-43-2	Benzene	<b>71,000</b>	2,500	820	370	
56-23-5	Carbon Tetrachloride	420	1,300	420	180	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-300-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-020

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SS00496

Initial Pressure (psig): -5.41 Final Pressure (psig): 6.88

Container Dilution Factor: 2.32

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>270,000</b>	4,500	1,500	670	
75-27-4	Bromodichloromethane	390	1,200	390	180	U
79-01-6	Trichloroethene	490	1,500	490	210	U
123-91-1	1,4-Dioxane	730	2,200	730	270	U
142-82-5	n-Heptane	<b>180,000</b>	2,000	1,200	320	
108-10-1	4-Methyl-2-pentanone	640	3,800	640	280	U
108-88-3	Toluene	<b>190,000</b>	2,100	700	270	
591-78-6	2-Hexanone	640	3,800	640	250	U
124-48-1	Dibromochloromethane	310	940	310	130	U
106-93-4	1,2-Dibromoethane	340	1,000	340	120	U
127-18-4	Tetrachloroethene	390	1,200	390	160	U
100-41-4	Ethylbenzene	<b>17,000</b>	1,900	610	270	
179601-23-1	m,p-Xylenes	<b>46,000</b>	3,600	1,200	500	
75-25-2	Bromoform	480	790	480	160	U
100-42-5	Styrene	1,200	1,900	1,200	310	U
95-47-6	o-Xylene	<b>14,000</b>	1,900	610	270	
108-67-8	1,3,5-Trimethylbenzene	<b>2,100</b>	1,700	540	240	
95-63-6	1,2,4-Trimethylbenzene	<b>4,900</b>	1,600	540	230	
120-82-1	1,2,4-Trichlorobenzene	670	2,100	670	270	U
91-20-3	Naphthalene	920	1,500	920	380	U
1330-20-7	Xylenes, Total	<b>60,000</b>	3,600	1,200	500	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201019-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201019-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date(s) Collected: 10/5 - 10/7/20

Analyst: Simon Cao/Topacio De Leon/Wida Ang

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 10/19 - 10/20/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201019-MB	100	102	97	70-130	
Method Blank	P201020-MB	99	102	97	70-130	
Lab Control Sample	P201019-LCS	101	98	96	70-130	
Lab Control Sample	P201020-LCS	99	99	96	70-130	
Duplicate Lab Control Sample	P201019-DLCS	100	98	95	70-130	
Duplicate Lab Control Sample	P201020-DLCS	99	98	95	70-130	
SV127-250-604	P2005742-001	101	101	98	70-130	
SV127-250-204	P2005742-002	99	100	98	70-130	
SV127-350-204	P2005742-003	98	101	99	70-130	
SV127-450-204	P2005742-004	101	102	98	70-130	
SV142-030-204	P2005742-005	100	100	98	70-130	
SV142-050-204	P2005742-006	100	101	97	70-130	
SV142-170-204	P2005742-007	99	101	98	70-130	
SV142-170-604	P2005742-008	100	102	97	70-130	
SV142-250-204	P2005742-009	99	100	97	70-130	
SV142-350-204	P2005742-010	99	102	97	70-130	
SV142-450-204	P2005742-011	98	99	96	70-130	
SVE06-060-204	P2005742-012	100	99	96	70-130	
SVE06-060-604	P2005742-013	100	100	96	70-130	
SVE07-160-204	P2005742-014	100	101	96	70-130	
SVE08-260-204	P2005742-015	102	79	86	70-130	
SVE09-460-204	P2005742-016	99	89	89	70-130	
SV03-050-204	P2005742-017	99	101	96	70-130	
SV03-100-204	P2005742-018	101	85	87	70-130	
SV03-250-204	P2005742-019	99	98	95	70-130	
SV03-300-204	P2005742-020	100	98	96	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201019-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS ppbV	LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits	RPD Limit	
115-07-1	Propene	122	114	118		93	97	57-136	4	25
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	36.9	37.3		87	88	59-128	1	25
74-87-3	Chloromethane	99.8	106	103		106	103	59-132	3	25
75-01-4	Vinyl Chloride	81.4	76.3	77.1		94	95	64-127	1	25
106-99-0	1,3-Butadiene	95.0	97.1	99.0		102	104	66-134	2	25
75-00-3	Chloroethane	77.3	73.1	74.0		95	96	63-127	1	25
64-17-5	Ethanol	530	475	486		90	92	59-125	2	25
67-64-1	Acetone	435	377	381		87	88	58-128	1	25
75-69-4	Trichlorofluoromethane	36.3	31.1	31.3		86	86	62-126	0	25
67-63-0	2-Propanol (Isopropyl Alcohol)	166	153	152		92	92	52-125	0	25
75-09-2	Methylene Chloride	59.9	55.8	56.1		93	94	62-115	1	25
76-13-1	Trichlorotrifluoroethane	27.9	24.2	24.2		87	87	66-126	0	25
75-15-0	Carbon Disulfide	137	127	128		93	93	57-134	0	25
75-34-3	1,1-Dichloroethane	52.4	48.8	49.1		93	94	68-126	1	25
78-93-3	2-Butanone (MEK)	140	136	137		97	98	67-130	1	25
141-78-6	Ethyl Acetate	117	137	139		117	119	65-128	2	25
110-54-3	n-Hexane	60.2	52.7	53.2		88	88	63-120	0	25
67-66-3	Chloroform	43.8	38.6	38.7		88	88	68-123	0	25
109-99-9	Tetrahydrofuran (THF)	136	128	129		94	95	64-123	1	25
107-06-2	1,2-Dichloroethane	51.4	47.2	47.2		92	92	65-128	0	25
71-43-2	Benzene	63.9	58.8	59.2		92	93	69-119	1	25
56-23-5	Carbon Tetrachloride	33.4	27.5	27.7		82	83	68-132	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201019-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	111	112	<b>92</b>	<b>93</b>	70-117	1	25	
75-27-4	Bromodichloromethane	31.4	28.8	28.9	<b>92</b>	<b>92</b>	72-128	0	25	
79-01-6	Trichloroethene	38.3	33.0	33.2	<b>86</b>	<b>87</b>	71-123	1	25	
123-91-1	1,4-Dioxane	57.7	55.9	56.6	<b>97</b>	<b>98</b>	71-122	1	25	
142-82-5	n-Heptane	51.3	47.9	48.7	<b>93</b>	<b>95</b>	69-123	2	25	
108-10-1	4-Methyl-2-pentanone	102	105	106	<b>103</b>	<b>104</b>	67-130	1	25	
108-88-3	Toluene	54.7	47.6	47.7	<b>87</b>	<b>87</b>	66-119	0	25	
591-78-6	2-Hexanone	98.7	103	103	<b>104</b>	<b>104</b>	62-128	0	25	
124-48-1	Dibromochloromethane	24.7	22.4	22.5	<b>91</b>	<b>91</b>	70-130	0	25	
106-93-4	1,2-Dibromoethane	27.1	24.8	24.9	<b>92</b>	<b>92</b>	74-122	0	25	
127-18-4	Tetrachloroethene	30.4	25.1	25.0	<b>83</b>	<b>82</b>	66-124	1	25	
100-41-4	Ethylbenzene	47.4	42.5	42.6	<b>90</b>	<b>90</b>	70-124	0	25	
179601-23-1	m,p-Xylenes	94.9	83.7	83.7	<b>88</b>	<b>88</b>	61-134	0	25	
75-25-2	Bromoform	20.1	18.5	18.6	<b>92</b>	<b>93</b>	66-139	1	25	
100-42-5	Styrene	48.4	44.3	44.4	<b>92</b>	<b>92</b>	73-127	0	25	
95-47-6	o-Xylene	47.4	42.2	42.2	<b>89</b>	<b>89</b>	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	36.8	37.0	<b>88</b>	<b>88</b>	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	36.4	36.7	<b>88</b>	<b>88</b>	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	42.2	42.8	<b>81</b>	<b>82</b>	55-142	1	25	
91-20-3	Naphthalene	37.8	30.0	30.4	<b>79</b>	<b>80</b>	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	122	124	126	102	103	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	36.5	37.2	86	88	59-128	2	25	
74-87-3	Chloromethane	99.8	79.5	78.6	80	79	59-132	1	25	
75-01-4	Vinyl Chloride	81.4	77.6	78.2	95	96	64-127	1	25	
106-99-0	1,3-Butadiene	95.0	97.8	99.5	103	105	66-134	2	25	
75-00-3	Chloroethane	77.3	73.8	75.4	95	98	63-127	3	25	
64-17-5	Ethanol	530	483	493	91	93	59-125	2	25	
67-64-1	Acetone	435	382	385	88	89	58-128	1	25	
75-69-4	Trichlorofluoromethane	36.3	30.8	31.3	85	86	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	144	145	87	87	52-125	0	25	
75-09-2	Methylene Chloride	59.9	56.3	56.8	94	95	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	27.9	23.6	23.8	85	85	66-126	0	25	
75-15-0	Carbon Disulfide	137	128	130	93	95	57-134	2	25	
75-34-3	1,1-Dichloroethane	52.4	49.0	48.9	94	93	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	137	139	98	99	67-130	1	25	
141-78-6	Ethyl Acetate	117	140	141	120	121	65-128	0.8	25	
110-54-3	n-Hexane	60.2	54.1	54.2	90	90	63-120	0	25	
67-66-3	Chloroform	43.8	38.7	38.7	88	88	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	136	130	130	96	96	64-123	0	25	
107-06-2	1,2-Dichloroethane	51.4	46.7	47.0	91	91	65-128	0	25	
71-43-2	Benzene	63.9	59.5	59.6	93	93	69-119	0	25	
56-23-5	Carbon Tetrachloride	33.4	27.3	27.4	82	82	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	112	113	<b>93</b>	<b>93</b>	70-117	0	25	
75-27-4	Bromodichloromethane	31.4	28.7	28.9	<b>91</b>	<b>92</b>	72-128	1	25	
79-01-6	Trichloroethene	38.3	33.2	33.3	<b>87</b>	<b>87</b>	71-123	0	25	
123-91-1	1,4-Dioxane	57.7	56.4	56.5	<b>98</b>	<b>98</b>	71-122	0	25	
142-82-5	n-Heptane	51.3	48.6	49.0	<b>95</b>	<b>96</b>	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	102	107	107	<b>105</b>	<b>105</b>	67-130	0	25	
108-88-3	Toluene	54.7	47.7	47.9	<b>87</b>	<b>88</b>	66-119	1	25	
591-78-6	2-Hexanone	98.7	104	104	<b>105</b>	<b>105</b>	62-128	0	25	
124-48-1	Dibromochloromethane	24.7	22.4	22.4	<b>91</b>	<b>91</b>	70-130	0	25	
106-93-4	1,2-Dibromoethane	27.1	25.1	25.1	<b>93</b>	<b>93</b>	74-122	0	25	
127-18-4	Tetrachloroethene	30.4	25.0	25.1	<b>82</b>	<b>83</b>	66-124	1	25	
100-41-4	Ethylbenzene	47.4	42.5	42.5	<b>90</b>	<b>90</b>	70-124	0	25	
179601-23-1	m,p-Xylenes	94.9	83.5	83.7	<b>88</b>	<b>88</b>	61-134	0	25	
75-25-2	Bromoform	20.1	18.5	18.5	<b>92</b>	<b>92</b>	66-139	0	25	
100-42-5	Styrene	48.4	44.5	44.4	<b>92</b>	<b>92</b>	73-127	0	25	
95-47-6	o-Xylene	47.4	42.2	42.3	<b>89</b>	<b>89</b>	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	36.5	36.6	<b>87</b>	<b>87</b>	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	36.2	36.5	<b>87</b>	<b>88</b>	66-132	1	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	42.3	42.8	<b>81</b>	<b>82</b>	55-142	1	25	
91-20-3	Naphthalene	37.8	29.9	30.3	<b>79</b>	<b>80</b>	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00415

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 8.07

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.61	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.70</b>	2.4	1.5	0.41	J
74-87-3	Chloromethane	<b>0.45</b>	2.4	1.5	0.40	J
75-01-4	Vinyl Chloride	0.79	2.5	0.79	0.27	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	<b>3.6</b>	25	3.9	1.7	J
67-64-1	Acetone	<b>22</b>	24	13	5.6	J
75-69-4	Trichlorofluoromethane	<b>1.0</b>	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.7	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.70	U
76-13-1	Trichlorotrifluoroethane	0.79	2.5	0.79	0.36	U
75-15-0	Carbon Disulfide	<b>16</b>	4.7	2.5	0.75	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	<b>4.5</b>	4.7	1.5	0.51	J
141-78-6	Ethyl Acetate	<b>2.3</b>	4.7	3.0	1.3	J
110-54-3	n-Hexane	1.5	2.4	1.5	0.51	U
67-66-3	Chloroform	<b>4.1</b>	2.5	0.79	0.33	
109-99-9	Tetrahydrofuran (THF)	<b>1.3</b>	4.7	0.79	0.31	J
107-06-2	1,2-Dichloroethane	0.79	2.4	0.79	0.28	U
71-43-2	Benzene	0.79	2.4	0.79	0.36	U
56-23-5	Carbon Tetrachloride	<b>4.0</b>	2.4	0.79	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-001

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00415

Initial Pressure (psig): -2.54 Final Pressure (psig): 8.07

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.7	1.6	0.70	U
75-27-4	Bromodichloromethane	0.79	2.4	0.79	0.36	U
79-01-6	Trichloroethene	0.79	2.4	0.79	0.34	U
123-91-1	1,4-Dioxane	0.79	2.4	0.79	0.29	U
142-82-5	n-Heptane	1.5	2.4	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	0.79	4.7	0.79	0.34	U
108-88-3	Toluene	<b>0.91</b>	2.4	0.79	0.30	J
591-78-6	2-Hexanone	<b>0.74</b>	4.7	0.79	0.31	J
124-48-1	Dibromochloromethane	0.79	2.4	0.79	0.33	U
106-93-4	1,2-Dibromoethane	0.79	2.4	0.79	0.29	U
127-18-4	Tetrachloroethene	<b>0.42</b>	2.4	0.79	0.32	J
100-41-4	Ethylbenzene	0.79	2.4	0.79	0.35	U
179601-23-1	m,p-Xylenes	<b>1.1</b>	4.7	1.6	0.65	J
75-25-2	Bromoform	1.5	2.5	1.5	0.51	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	0.79	2.5	0.79	0.36	U
108-67-8	1,3,5-Trimethylbenzene	<b>0.45</b>	2.5	0.79	0.36	J
95-63-6	1,2,4-Trimethylbenzene	<b>2.9</b>	2.4	0.79	0.35	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	<b>0.91</b>	2.4	1.4	0.61	J
1330-20-7	Xylenes, Total	<b>1.1</b>	4.7	1.6	0.65	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-002

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00255

Initial Pressure (psig): -2.89 Final Pressure (psig): 9.03

Container Dilution Factor: 2.01

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.6	1.6	0.65	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.71	2.6	1.6	0.44	J
74-87-3	Chloromethane	1.6	2.6	1.6	0.43	U
75-01-4	Vinyl Chloride	0.85	2.7	0.85	0.29	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.44	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	2.7	27	4.2	1.9	J
67-64-1	Acetone	18	26	14	6.0	J
75-69-4	Trichlorofluoromethane	1.0	2.6	1.6	0.41	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	5.0	3.2	1.1	U
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.75	U
76-13-1	Trichlorotrifluoroethane	0.85	2.7	0.85	0.38	U
75-15-0	Carbon Disulfide	16	5.0	2.7	0.80	
75-34-3	1,1-Dichloroethane	1.7	2.7	1.7	0.39	U
78-93-3	2-Butanone (MEK)	3.4	5.0	1.6	0.55	J
141-78-6	Ethyl Acetate	3.3	5.0	3.3	1.4	U
110-54-3	n-Hexane	1.6	2.6	1.6	0.55	U
67-66-3	Chloroform	3.7	2.7	0.85	0.36	
109-99-9	Tetrahydrofuran (THF)	0.61	5.0	0.85	0.34	J
107-06-2	1,2-Dichloroethane	0.85	2.6	0.85	0.30	U
71-43-2	Benzene	0.39	2.6	0.85	0.39	J
56-23-5	Carbon Tetrachloride	4.0	2.6	0.85	0.37	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV127-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-002

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00255

Initial Pressure (psig): -2.89 Final Pressure (psig): 9.03

Container Dilution Factor: 2.01

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	5.0	1.7	0.75	U
75-27-4	Bromodichloromethane	0.85	2.6	0.85	0.39	U
79-01-6	Trichloroethene	0.85	2.6	0.85	0.36	U
123-91-1	1,4-Dioxane	0.55	2.6	0.85	0.32	J
142-82-5	n-Heptane	1.6	2.6	1.6	0.43	U
108-10-1	4-Methyl-2-pentanone	0.85	5.0	0.85	0.37	U
108-88-3	Toluene	0.59	2.6	0.85	0.33	J
591-78-6	2-Hexanone	0.80	5.0	0.85	0.33	J
124-48-1	Dibromochloromethane	0.85	2.6	0.85	0.35	U
106-93-4	1,2-Dibromoethane	0.85	2.6	0.85	0.31	U
127-18-4	Tetrachloroethene	0.44	2.6	0.85	0.35	J
100-41-4	Ethylbenzene	0.85	2.6	0.85	0.38	U
179601-23-1	m,p-Xylenes	1.7	5.0	1.7	0.70	U
75-25-2	Bromoform	1.6	2.7	1.6	0.55	U
100-42-5	Styrene	1.6	2.6	1.6	0.43	U
95-47-6	o-Xylene	0.85	2.7	0.85	0.39	U
108-67-8	1,3,5-Trimethylbenzene	0.85	2.7	0.85	0.39	U
95-63-6	1,2,4-Trimethylbenzene	0.80	2.6	0.85	0.37	J
120-82-1	1,2,4-Trichlorobenzene	1.6	5.0	1.6	0.65	U
91-20-3	Naphthalene	1.3	2.6	1.6	0.65	J
1330-20-7	Xylenes, Total	1.7	5.0	1.7	0.70	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00287

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.75 Final Pressure (psig): 7.90

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.61	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.69</b>	2.5	1.5	0.41	J
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.80	2.5	0.80	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.31	U
64-17-5	Ethanol	<b>4.3</b>	25	3.9	1.7	J
67-64-1	Acetone	13	25	13	5.7	U
75-69-4	Trichlorofluoromethane	1.5	2.4	1.5	0.38	U
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.7	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	0.80	2.5	0.80	0.36	U
75-15-0	Carbon Disulfide	<b>13</b>	4.7	2.6	0.76	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	1.5	4.7	1.5	0.52	U
141-78-6	Ethyl Acetate	3.1	4.7	3.1	1.3	U
110-54-3	n-Hexane	<b>2.1</b>	2.5	1.5	0.52	J
67-66-3	Chloroform	0.80	2.5	0.80	0.34	U
109-99-9	Tetrahydrofuran (THF)	<b>2.0</b>	4.7	0.80	0.32	J
107-06-2	1,2-Dichloroethane	0.80	2.5	0.80	0.28	U
71-43-2	Benzene	<b>2.4</b>	2.5	0.80	0.36	J
56-23-5	Carbon Tetrachloride	0.80	2.4	0.80	0.35	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-003

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00287

Initial Pressure (psig): -2.75 Final Pressure (psig): 7.90

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>6.6</b>	4.7	1.6	0.71	
75-27-4	Bromodichloromethane	0.80	2.5	0.80	0.36	U
79-01-6	Trichloroethene	<b>1.0</b>	2.4	0.80	0.34	J
123-91-1	1,4-Dioxane	0.80	2.5	0.80	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	0.80	4.7	0.80	0.34	U
108-88-3	Toluene	<b>1.2</b>	2.5	0.80	0.31	J
591-78-6	2-Hexanone	<b>0.85</b>	4.7	0.80	0.31	J
124-48-1	Dibromochloromethane	0.80	2.5	0.80	0.33	U
106-93-4	1,2-Dibromoethane	0.80	2.5	0.80	0.29	U
127-18-4	Tetrachloroethene	<b>0.56</b>	2.5	0.80	0.33	J
100-41-4	Ethylbenzene	0.80	2.5	0.80	0.35	U
179601-23-1	m,p-Xylenes	<b>1.1</b>	4.7	1.6	0.66	J
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	<b>0.41</b>	2.5	0.80	0.36	J
108-67-8	1,3,5-Trimethylbenzene	0.80	2.5	0.80	0.36	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.88</b>	2.5	0.80	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.61	U
1330-20-7	Xylenes, Total	<b>1.5</b>	4.7	1.6	0.66	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00254

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.41 Final Pressure (psig): 7.59

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.4	1.4	0.59	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	2.4	1.4	0.39	J
74-87-3	Chloromethane	1.0	2.4	1.4	0.39	J
75-01-4	Vinyl Chloride	0.32	2.4	0.77	0.26	J
106-99-0	1,3-Butadiene	1.4	2.4	1.4	0.40	U
75-00-3	Chloroethane	1.4	2.4	1.4	0.30	U
64-17-5	Ethanol	3.8	24	3.8	1.7	U
67-64-1	Acetone	8.9	24	12	5.4	J
75-69-4	Trichlorofluoromethane	1.0	2.3	1.4	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.5	2.9	1.0	U
75-09-2	Methylene Chloride	1.4	2.4	1.4	0.68	U
76-13-1	Trichlorotrifluoroethane	0.43	2.4	0.77	0.34	J
75-15-0	Carbon Disulfide	8.8	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	2.5	4.5	1.4	0.50	J
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	U
110-54-3	n-Hexane	1.4	2.4	1.4	0.50	U
67-66-3	Chloroform	560	24	7.7	3.2	D
109-99-9	Tetrahydrofuran (THF)	2.0	4.5	0.77	0.30	J
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	1.7	2.4	0.77	0.35	J
56-23-5	Carbon Tetrachloride	18	2.3	0.77	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV127-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00254

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.41 Final Pressure (psig): 7.59

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.68	U
75-27-4	Bromodichloromethane	72	2.4	0.77	0.35	
79-01-6	Trichloroethene	2.4	2.3	0.77	0.33	
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	1.4	2.4	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	0.77	4.5	0.77	0.33	U
108-88-3	Toluene	2.3	2.4	0.77	0.29	J
591-78-6	2-Hexanone	0.77	4.5	0.77	0.30	U
124-48-1	Dibromochloromethane	15	2.4	0.77	0.32	
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	5.9	2.4	0.77	0.31	
100-41-4	Ethylbenzene	0.77	2.4	0.77	0.34	U
179601-23-1	m,p-Xylenes	1.5	4.5	1.5	0.63	U
75-25-2	Bromoform	2.0	2.4	1.4	0.50	J
100-42-5	Styrene	1.4	2.4	1.4	0.39	U
95-47-6	o-Xylene	0.77	2.4	0.77	0.35	U
108-67-8	1,3,5-Trimethylbenzene	0.77	2.4	0.77	0.35	U
95-63-6	1,2,4-Trimethylbenzene	0.38	2.4	0.77	0.33	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	1.5	4.5	1.5	0.63	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-030-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00342

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.90 Final Pressure (psig): 8.48

Container Dilution Factor: 1.96

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.4	2.5	1.6	0.64	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	2.5	1.6	0.43	J
74-87-3	Chloromethane	1.6	2.5	1.6	0.42	U
75-01-4	Vinyl Chloride	0.83	2.6	0.83	0.28	U
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.5	1.6	0.32	U
64-17-5	Ethanol	7.9	26	4.1	1.8	J
67-64-1	Acetone	46	25	13	5.9	J
75-69-4	Trichlorofluoromethane	1.3	2.5	1.6	0.40	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.9	3.1	1.1	J
75-09-2	Methylene Chloride	1.6	2.5	1.6	0.74	U
76-13-1	Trichlorotrifluoroethane	0.43	2.6	0.83	0.37	J
75-15-0	Carbon Disulfide	6.7	4.9	2.6	0.78	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	9.5	4.9	1.6	0.54	J
141-78-6	Ethyl Acetate	3.2	4.9	3.2	1.4	U
110-54-3	n-Hexane	1.6	2.5	1.6	0.54	U
67-66-3	Chloroform	2.0	2.6	0.83	0.35	J
109-99-9	Tetrahydrofuran (THF)	0.39	4.9	0.83	0.33	J
107-06-2	1,2-Dichloroethane	0.83	2.5	0.83	0.29	U
71-43-2	Benzene	0.83	2.5	0.83	0.38	U
56-23-5	Carbon Tetrachloride	0.83	2.5	0.83	0.36	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-030-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00342

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.90 Final Pressure (psig): 8.48

Container Dilution Factor: 1.96

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	4.9	1.7	0.74	U
75-27-4	Bromodichloromethane	0.83	2.5	0.83	0.38	U
79-01-6	Trichloroethene	16	2.5	0.83	0.35	U
123-91-1	1,4-Dioxane	0.83	2.5	0.83	0.31	U
142-82-5	n-Heptane	1.6	2.5	1.6	0.42	U
108-10-1	4-Methyl-2-pentanone	0.83	4.9	0.83	0.36	U
108-88-3	Toluene	0.40	2.5	0.83	0.32	J
591-78-6	2-Hexanone	1.7	4.9	0.83	0.32	J
124-48-1	Dibromochloromethane	0.83	2.5	0.83	0.34	U
106-93-4	1,2-Dibromoethane	0.83	2.5	0.83	0.30	U
127-18-4	Tetrachloroethene	1.4	2.5	0.83	0.34	J
100-41-4	Ethylbenzene	0.83	2.5	0.83	0.37	U
179601-23-1	m,p-Xylenes	1.7	4.9	1.7	0.69	U
75-25-2	Bromoform	1.6	2.6	1.6	0.54	U
100-42-5	Styrene	1.6	2.5	1.6	0.42	U
95-47-6	o-Xylene	0.83	2.6	0.83	0.38	U
108-67-8	1,3,5-Trimethylbenzene	0.83	2.6	0.83	0.38	U
95-63-6	1,2,4-Trimethylbenzene	0.83	2.5	0.83	0.36	U
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.64	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.64	U
1330-20-7	Xylenes, Total	1.7	4.9	1.7	0.69	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00163

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.43 Final Pressure (psig): 6.97

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.62	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	2.5	1.5	0.42	J
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.82	2.5	0.82	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	2.4	25	4.0	1.8	J
67-64-1	Acetone	8.9	25	13	5.8	J
75-69-4	Trichlorofluoromethane	1.3	2.4	1.5	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	0.42	2.5	0.82	0.36	J
75-15-0	Carbon Disulfide	5.0	4.8	2.6	0.77	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	1.1	4.8	1.5	0.53	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.5	1.5	0.53	U
67-66-3	Chloroform	1.3	2.5	0.82	0.34	J
109-99-9	Tetrahydrofuran (THF)	0.82	4.8	0.82	0.32	U
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	0.80	2.5	0.82	0.37	J
56-23-5	Carbon Tetrachloride	0.82	2.4	0.82	0.36	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00163

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.43 Final Pressure (psig): 6.97

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.72	U
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	0.82	2.4	0.82	0.35	U
123-91-1	1,4-Dioxane	<b>0.47</b>	2.5	0.82	0.30	J
142-82-5	n-Heptane	1.5	2.5	1.5	0.41	U
108-10-1	4-Methyl-2-pentanone	0.82	4.8	0.82	0.35	U
108-88-3	Toluene	<b>0.33</b>	2.5	0.82	0.31	J
591-78-6	2-Hexanone	0.82	4.8	0.82	0.32	U
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	0.82	2.5	0.82	0.33	U
100-41-4	Ethylbenzene	0.82	2.5	0.82	0.36	U
179601-23-1	m,p-Xylenes	1.6	4.8	1.6	0.67	U
75-25-2	Bromoform	1.5	2.5	1.5	0.53	U
100-42-5	Styrene	<b>1.1</b>	2.5	1.5	0.41	J
95-47-6	o-Xylene	0.82	2.5	0.82	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.82	2.5	0.82	0.37	U
95-63-6	1,2,4-Trimethylbenzene	0.82	2.5	0.82	0.36	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	1.6	4.8	1.6	0.67	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00771

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/19/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.68    Final Pressure (psig): 6.99  
 Initial Pressure 2 (psig): -0.27    Final Pressure 2 (psig): 5.99

Container Dilution Factor: 2.59

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.0	3.4	2.1	0.84	J
75-71-8	Dichlorodifluoromethane (CFC 12)	18	3.4	2.1	0.56	
74-87-3	Chloromethane	0.78	3.4	2.1	0.56	J
75-01-4	Vinyl Chloride	1.1	3.4	1.1	0.37	U
106-99-0	1,3-Butadiene	2.1	3.4	2.1	0.57	U
75-00-3	Chloroethane	2.1	3.4	2.1	0.43	U
64-17-5	Ethanol	33	34	5.4	2.4	J
67-64-1	Acetone	48	34	17	7.8	
75-69-4	Trichlorofluoromethane	12	3.3	2.1	0.52	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.7	6.5	4.1	1.4	J
75-09-2	Methylene Chloride	3.4	3.4	2.1	0.97	
76-13-1	Trichlorotrifluoroethane	0.60	3.4	1.1	0.49	J
75-15-0	Carbon Disulfide	24	6.5	3.5	1.0	
75-34-3	1,1-Dichloroethane	2.1	3.5	2.1	0.51	U
78-93-3	2-Butanone (MEK)	9.6	6.5	2.1	0.71	
141-78-6	Ethyl Acetate	19	6.5	4.2	1.8	
110-54-3	n-Hexane	0.85	3.4	2.1	0.71	J
67-66-3	Chloroform	1.1	3.4	1.1	0.46	U
109-99-9	Tetrahydrofuran (THF)	1.1	6.5	1.1	0.43	J
107-06-2	1,2-Dichloroethane	1.1	3.4	1.1	0.38	U
71-43-2	Benzene	1.1	3.4	1.1	0.50	U
56-23-5	Carbon Tetrachloride	1.1	3.3	1.1	0.48	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-007

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00771

Initial Pressure (psig): -2.68 Final Pressure (psig): 6.99

Initial Pressure 2 (psig): -0.27 Final Pressure 2 (psig): 5.99

Container Dilution Factor: 2.59

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.2	6.5	2.2	0.97	U
75-27-4	Bromodichloromethane	1.1	3.4	1.1	0.50	U
79-01-6	Trichloroethene	1.1	3.3	1.1	0.47	U
123-91-1	1,4-Dioxane	<b>0.63</b>	3.4	1.1	0.41	J
142-82-5	n-Heptane	<b>0.60</b>	3.4	2.1	0.55	J
108-10-1	4-Methyl-2-pentanone	<b>0.66</b>	6.5	1.1	0.47	J
108-88-3	Toluene	<b>5.1</b>	3.4	1.1	0.42	
591-78-6	2-Hexanone	<b>1.9</b>	6.5	1.1	0.43	J
124-48-1	Dibromochloromethane	1.1	3.4	1.1	0.45	U
106-93-4	1,2-Dibromoethane	1.1	3.4	1.1	0.40	U
127-18-4	Tetrachloroethene	<b>0.51</b>	3.4	1.1	0.45	J
100-41-4	Ethylbenzene	1.1	3.4	1.1	0.49	U
179601-23-1	m,p-Xylenes	2.2	6.5	2.2	0.91	U
75-25-2	Bromoform	2.1	3.4	2.1	0.71	U
100-42-5	Styrene	2.1	3.4	2.1	0.56	U
95-47-6	o-Xylene	1.1	3.4	1.1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1.1	3.4	1.1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1.1	3.4	1.1	0.48	U
120-82-1	1,2,4-Trichlorobenzene	2.1	6.5	2.1	0.84	U
91-20-3	Naphthalene	2.0	3.4	2.0	0.84	U
1330-20-7	Xylenes, Total	2.2	6.5	2.2	0.91	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-170-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00783

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.23 Final Pressure (psig): 7.24

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.62	U
75-71-8	Dichlorodifluoromethane (CFC 12)	21	2.5	1.5	0.42	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.81	2.5	0.81	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	2.6	25	4.0	1.8	J
67-64-1	Acetone	9.3	25	13	5.7	J
75-69-4	Trichlorofluoromethane	13	2.4	1.5	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	0.56	2.5	0.81	0.36	J
75-15-0	Carbon Disulfide	12	4.8	2.6	0.76	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	2.1	4.8	1.5	0.53	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.5	1.5	0.53	U
67-66-3	Chloroform	0.37	2.5	0.81	0.34	J
109-99-9	Tetrahydrofuran (THF)	1.4	4.8	0.81	0.32	J
107-06-2	1,2-Dichloroethane	0.81	2.5	0.81	0.28	U
71-43-2	Benzene	2.4	2.5	0.81	0.37	J
56-23-5	Carbon Tetrachloride	1.1	2.4	0.81	0.35	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-170-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00783

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.23 Final Pressure (psig): 7.24

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1.6</b>	4.8	1.6	0.72	<b>J</b>
75-27-4	Bromodichloromethane	0.81	2.5	0.81	0.37	<b>U</b>
79-01-6	Trichloroethene	0.81	2.4	0.81	0.34	<b>U</b>
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	<b>U</b>
142-82-5	n-Heptane	1.5	2.5	1.5	0.41	<b>U</b>
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	<b>U</b>
108-88-3	Toluene	<b>0.41</b>	2.5	0.81	0.31	<b>J</b>
591-78-6	2-Hexanone	0.81	4.8	0.81	0.32	<b>U</b>
124-48-1	Dibromochloromethane	0.81	2.5	0.81	0.33	<b>U</b>
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.30	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.52</b>	2.5	0.81	0.33	<b>J</b>
100-41-4	Ethylbenzene	0.81	2.5	0.81	0.36	<b>U</b>
179601-23-1	m,p-Xylenes	1.6	4.8	1.6	0.67	<b>U</b>
75-25-2	Bromoform	1.5	2.5	1.5	0.53	<b>U</b>
100-42-5	Styrene	1.5	2.5	1.5	0.41	<b>U</b>
95-47-6	o-Xylene	0.81	2.5	0.81	0.37	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.81	2.5	0.81	0.37	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.81	2.5	0.81	0.35	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	<b>U</b>
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	<b>U</b>
1330-20-7	Xylenes, Total	1.6	4.8	1.6	0.67	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00521

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.44 Final Pressure (psig): 6.81

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	15	2.1	1.3	0.53	
75-71-8	Dichlorodifluoromethane (CFC 12)	19	2.1	1.3	0.35	
74-87-3	Chloromethane	0.41	2.1	1.3	0.35	J
75-01-4	Vinyl Chloride	0.69	2.1	0.69	0.23	U
106-99-0	1,3-Butadiene	1.3	2.1	1.3	0.36	U
75-00-3	Chloroethane	1.3	2.1	1.3	0.27	U
64-17-5	Ethanol	120	21	3.4	1.5	
67-64-1	Acetone	60	21	11	4.9	
75-69-4	Trichlorofluoromethane	15	2.1	1.3	0.33	
67-63-0	2-Propanol (Isopropyl Alcohol)	37	4.1	2.6	0.89	
75-09-2	Methylene Chloride	6.2	2.1	1.3	0.61	
76-13-1	Trichlorotrifluoroethane	0.62	2.1	0.69	0.31	J
75-15-0	Carbon Disulfide	7.3	4.1	2.2	0.65	
75-34-3	1,1-Dichloroethane	1.3	2.2	1.3	0.32	U
78-93-3	2-Butanone (MEK)	10	4.1	1.3	0.45	
141-78-6	Ethyl Acetate	190	4.1	2.6	1.1	
110-54-3	n-Hexane	6.0	2.1	1.3	0.45	
67-66-3	Chloroform	1.6	2.1	0.69	0.29	J
109-99-9	Tetrahydrofuran (THF)	4.9	4.1	0.69	0.27	
107-06-2	1,2-Dichloroethane	0.69	2.1	0.69	0.24	U
71-43-2	Benzene	1.9	2.1	0.69	0.31	J
56-23-5	Carbon Tetrachloride	1.4	2.1	0.69	0.30	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00521

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.44 Final Pressure (psig): 6.81

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	3.3	4.1	1.4	0.61	J
75-27-4	Bromodichloromethane	0.69	2.1	0.69	0.31	U
79-01-6	Trichloroethene	0.92	2.1	0.69	0.29	J
123-91-1	1,4-Dioxane	0.69	2.1	0.69	0.26	U
142-82-5	n-Heptane	4.0	2.1	1.3	0.34	
108-10-1	4-Methyl-2-pentanone	2.8	4.1	0.69	0.30	J
108-88-3	Toluene	64	2.1	0.69	0.26	
591-78-6	2-Hexanone	2.4	4.1	0.69	0.27	J
124-48-1	Dibromochloromethane	0.69	2.1	0.69	0.28	U
106-93-4	1,2-Dibromoethane	0.69	2.1	0.69	0.25	U
127-18-4	Tetrachloroethene	0.69	2.1	0.69	0.28	J
100-41-4	Ethylbenzene	2.1	2.1	0.69	0.30	
179601-23-1	m,p-Xylenes	6.9	4.1	1.4	0.57	
75-25-2	Bromoform	1.3	2.1	1.3	0.45	U
100-42-5	Styrene	4.1	2.1	1.3	0.35	
95-47-6	o-Xylene	3.1	2.1	0.69	0.31	
108-67-8	1,3,5-Trimethylbenzene	0.33	2.1	0.69	0.31	J
95-63-6	1,2,4-Trimethylbenzene	0.59	2.1	0.69	0.30	J
120-82-1	1,2,4-Trichlorobenzene	1.3	4.1	1.3	0.53	U
91-20-3	Naphthalene	1.3	2.1	1.3	0.53	U
1330-20-7	Xylenes, Total	10	4.1	1.4	0.57	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01243

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.25 Final Pressure (psig): 7.51

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.5	1.6	0.63	U
75-71-8	Dichlorodifluoromethane (CFC 12)	4.9	2.5	1.6	0.42	
74-87-3	Chloromethane	1.6	2.5	1.6	0.42	U
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.5	1.6	0.32	U
64-17-5	Ethanol	3.3	26	4.0	1.8	J
67-64-1	Acetone	12	25	13	5.8	J
75-69-4	Trichlorofluoromethane	6.8	2.5	1.6	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.1	4.9	3.1	1.1	U
75-09-2	Methylene Chloride	1.6	2.5	1.6	0.73	U
76-13-1	Trichlorotrifluoroethane	0.82	2.6	0.82	0.37	U
75-15-0	Carbon Disulfide	7.6	4.9	2.6	0.78	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	1.7	4.9	1.6	0.53	J
141-78-6	Ethyl Acetate	6.1	4.9	3.2	1.4	
110-54-3	n-Hexane	1.6	2.5	1.6	0.53	U
67-66-3	Chloroform	4.6	2.6	0.82	0.34	
109-99-9	Tetrahydrofuran (THF)	4.7	4.9	0.82	0.32	J
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.29	U
71-43-2	Benzene	1.6	2.5	0.82	0.37	J
56-23-5	Carbon Tetrachloride	0.89	2.5	0.82	0.36	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01243

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.25 Final Pressure (psig): 7.51

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>0.74</b>	4.9	1.6	0.73	<b>J</b>
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	<b>U</b>
79-01-6	Trichloroethene	0.82	2.5	0.82	0.35	<b>U</b>
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.31	<b>U</b>
142-82-5	n-Heptane	1.6	2.5	1.6	0.41	<b>U</b>
108-10-1	4-Methyl-2-pentanone	0.82	4.9	0.82	0.35	<b>U</b>
108-88-3	Toluene	0.82	2.5	0.82	0.32	<b>U</b>
591-78-6	2-Hexanone	0.82	4.9	0.82	0.32	<b>U</b>
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	<b>U</b>
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	<b>U</b>
127-18-4	Tetrachloroethene	0.82	2.5	0.82	0.33	<b>U</b>
100-41-4	Ethylbenzene	0.82	2.5	0.82	0.36	<b>U</b>
179601-23-1	m,p-Xylenes	1.6	4.9	1.6	0.68	<b>U</b>
75-25-2	Bromoform	1.6	2.6	1.6	0.53	<b>U</b>
100-42-5	Styrene	1.6	2.5	1.6	0.42	<b>U</b>
95-47-6	o-Xylene	0.82	2.6	0.82	0.37	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.82	2.6	0.82	0.37	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.82	2.5	0.82	0.36	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.63	<b>U</b>
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	<b>U</b>
1330-20-7	Xylenes, Total	1.6	4.9	1.6	0.68	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00930

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.91 Final Pressure (psig): 8.08

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.5	1.5	0.63	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	2.5	1.5	0.42	J
74-87-3	Chloromethane	0.68	2.5	1.5	0.41	J
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	6.8	26	4.0	1.8	J
67-64-1	Acetone	30	25	13	5.8	
75-69-4	Trichlorofluoromethane	1.0	2.5	1.5	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	0.42	2.6	0.82	0.37	J
75-15-0	Carbon Disulfide	32	4.8	2.6	0.77	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	8.4	4.8	1.5	0.53	
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.4	U
110-54-3	n-Hexane	2.9	2.5	1.5	0.53	
67-66-3	Chloroform	0.82	2.6	0.82	0.34	U
109-99-9	Tetrahydrofuran (THF)	4.9	4.8	0.82	0.32	
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	50	2.5	0.82	0.37	
56-23-5	Carbon Tetrachloride	0.82	2.5	0.82	0.36	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV142-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00930

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.91 Final Pressure (psig): 8.08

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>31</b>	4.8	1.6	0.72	
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	0.82	2.5	0.82	0.35	U
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.30	U
142-82-5	n-Heptane	<b>0.83</b>	2.5	1.5	0.41	J
108-10-1	4-Methyl-2-pentanone	0.82	4.8	0.82	0.35	U
108-88-3	Toluene	<b>5.8</b>	2.5	0.82	0.31	
591-78-6	2-Hexanone	0.82	4.8	0.82	0.32	U
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	0.82	2.5	0.82	0.33	U
100-41-4	Ethylbenzene	<b>4.0</b>	2.5	0.82	0.36	
179601-23-1	m,p-Xylenes	<b>1.7</b>	4.8	1.6	0.68	J
75-25-2	Bromoform	1.5	2.6	1.5	0.53	U
100-42-5	Styrene	<b>0.74</b>	2.5	1.5	0.41	J
95-47-6	o-Xylene	<b>2.6</b>	2.6	0.82	0.37	
108-67-8	1,3,5-Trimethylbenzene	<b>0.84</b>	2.6	0.82	0.37	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.53</b>	2.5	0.82	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.63	U
91-20-3	Naphthalene	<b>0.65</b>	2.5	1.5	0.63	J
1330-20-7	Xylenes, Total	<b>4.3</b>	4.8	1.6	0.68	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE06-060-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-012

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS00018

Initial Pressure (psig): -3.87 Final Pressure (psig): 5.97

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	4,100	5,000	3,100	1,200	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3,100	5,000	3,100	830	U
74-87-3	Chloromethane	3,100	5,000	3,100	820	U
75-01-4	Vinyl Chloride	1,600	5,100	1,600	540	U
106-99-0	1,3-Butadiene	3,100	5,000	3,100	840	U
75-00-3	Chloroethane	3,100	5,000	3,100	630	U
64-17-5	Ethanol	22,000	51,000	7,900	3,500	J
67-64-1	Acetone	170,000	50,000	26,000	11,000	J
75-69-4	Trichlorofluoromethane	3,100	4,900	3,100	770	U
67-63-0	2-Propanol (Isopropyl Alcohol)	7,900	9,600	6,000	2,100	J
75-09-2	Methylene Chloride	3,100	5,000	3,100	1,400	U
76-13-1	Trichlorotrifluoroethane	1,600	5,100	1,600	730	U
75-15-0	Carbon Disulfide	5,200	9,600	5,200	1,500	U
75-34-3	1,1-Dichloroethane	3,200	5,200	3,200	740	U
78-93-3	2-Butanone (MEK)	43,000	9,600	3,100	1,100	J
141-78-6	Ethyl Acetate	6,200	9,600	6,200	2,700	U
110-54-3	n-Hexane	960,000	5,000	3,100	1,100	J
67-66-3	Chloroform	1,600	5,100	1,600	680	U
109-99-9	Tetrahydrofuran (THF)	1,600	9,600	1,600	640	U
107-06-2	1,2-Dichloroethane	1,600	5,000	1,600	560	U
71-43-2	Benzene	220,000	5,000	1,600	740	J
56-23-5	Carbon Tetrachloride	1,600	4,900	1,600	710	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE06-060-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-012

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS00018

Initial Pressure (psig): -3.87 Final Pressure (psig): 5.97

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	970,000	9,600	3,200	1,400	
75-27-4	Bromodichloromethane	1,600	5,000	1,600	740	U
79-01-6	Trichloroethene	1,000	4,900	1,600	690	J
123-91-1	1,4-Dioxane	1,600	5,000	1,600	600	U
142-82-5	n-Heptane	860,000	5,000	3,100	810	
108-10-1	4-Methyl-2-pentanone	1,600	9,600	1,600	700	U
108-88-3	Toluene	450,000	5,000	1,600	620	
591-78-6	2-Hexanone	1,600	9,600	1,600	630	U
124-48-1	Dibromochloromethane	1,600	5,000	1,600	670	U
106-93-4	1,2-Dibromoethane	1,600	5,000	1,600	590	U
127-18-4	Tetrachloroethene	1,500	5,000	1,600	660	J
100-41-4	Ethylbenzene	110,000	5,000	1,600	720	
179601-23-1	m,p-Xylenes	120,000	9,600	3,200	1,300	
75-25-2	Bromoform	3,100	5,100	3,100	1,100	U
100-42-5	Styrene	3,100	5,000	3,100	820	U
95-47-6	o-Xylene	47,000	5,100	1,600	740	
108-67-8	1,3,5-Trimethylbenzene	14,000	5,100	1,600	740	
95-63-6	1,2,4-Trimethylbenzene	42,000	5,000	1,600	710	
120-82-1	1,2,4-Trichlorobenzene	3,100	9,600	3,100	1,200	U
91-20-3	Naphthalene	1,500	5,000	3,000	1,200	J
1330-20-7	Xylenes, Total	170,000	9,600	3,200	1,300	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE06-060-604

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-013

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS00108

Initial Pressure (psig): -4.73 Final Pressure (psig): 5.83

Container Dilution Factor: 2.06

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3,200	5,400	3,300	1,300	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3,300	5,400	3,300	900	U
74-87-3	Chloromethane	3,300	5,400	3,300	890	U
75-01-4	Vinyl Chloride	1,800	5,500	1,800	590	U
106-99-0	1,3-Butadiene	3,300	5,400	3,300	910	U
75-00-3	Chloroethane	3,300	5,400	3,300	680	U
64-17-5	Ethanol	13,000	55,000	8,500	3,800	J
67-64-1	Acetone	110,000	54,000	28,000	12,000	J
75-69-4	Trichlorofluoromethane	3,300	5,300	3,300	830	U
67-63-0	2-Propanol (Isopropyl Alcohol)	4,800	10,000	6,500	2,300	J
75-09-2	Methylene Chloride	3,300	5,400	3,300	1,500	U
76-13-1	Trichlorotrifluoroethane	1,800	5,500	1,800	780	U
75-15-0	Carbon Disulfide	5,600	10,000	5,600	1,600	U
75-34-3	1,1-Dichloroethane	3,400	5,600	3,400	800	U
78-93-3	2-Butanone (MEK)	27,000	10,000	3,300	1,100	J
141-78-6	Ethyl Acetate	6,700	10,000	6,700	2,900	U
110-54-3	n-Hexane	700,000	5,400	3,300	1,100	J
67-66-3	Chloroform	1,800	5,500	1,800	730	U
109-99-9	Tetrahydrofuran (THF)	1,800	10,000	1,800	690	U
107-06-2	1,2-Dichloroethane	1,800	5,400	1,800	610	U
71-43-2	Benzene	140,000	5,400	1,800	790	J
56-23-5	Carbon Tetrachloride	1,800	5,300	1,800	760	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE06-060-604

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-013

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS00108

Initial Pressure (psig): -4.73 Final Pressure (psig): 5.83

Container Dilution Factor: 2.06

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>700,000</b>	10,000	3,500	1,500	
75-27-4	Bromodichloromethane	1,800	5,400	1,800	790	U
79-01-6	Trichloroethene	1,800	5,300	1,800	740	U
123-91-1	1,4-Dioxane	1,800	5,400	1,800	650	U
142-82-5	n-Heptane	<b>600,000</b>	5,400	3,300	880	
108-10-1	4-Methyl-2-pentanone	1,800	10,000	1,800	750	U
108-88-3	Toluene	<b>290,000</b>	5,400	1,800	670	
591-78-6	2-Hexanone	1,800	10,000	1,800	680	U
124-48-1	Dibromochloromethane	1,800	5,400	1,800	720	U
106-93-4	1,2-Dibromoethane	1,800	5,400	1,800	640	U
127-18-4	Tetrachloroethene	1,800	5,400	1,800	710	U
100-41-4	Ethylbenzene	<b>63,000</b>	5,400	1,800	770	
179601-23-1	m,p-Xylenes	<b>64,000</b>	10,000	3,500	1,400	
75-25-2	Bromoform	3,300	5,500	3,300	1,100	U
100-42-5	Styrene	3,300	5,400	3,300	890	U
95-47-6	o-Xylene	<b>24,000</b>	5,500	1,800	790	
108-67-8	1,3,5-Trimethylbenzene	<b>6,700</b>	5,500	1,800	790	
95-63-6	1,2,4-Trimethylbenzene	<b>20,000</b>	5,400	1,800	760	
120-82-1	1,2,4-Trichlorobenzene	3,300	10,000	3,300	1,300	U
91-20-3	Naphthalene	3,200	5,400	3,200	1,300	U
1330-20-7	Xylenes, Total	<b>88,000</b>	10,000	3,500	1,400	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE07-160-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-014

Test Code: EPA TO-15

Date Collected: 10/7/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.000050 Liter(s)

Test Notes:

0.000070 Liter(s)

Container ID: 1SC01128

Initial Pressure (psig): -3.81 Final Pressure (psig): 7.53

Container Dilution Factor: 2.04

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	20,000	21,000	13,000	5,300	J
75-71-8	Dichlorodifluoromethane (CFC 12)	13,000	21,000	13,000	3,500	U
74-87-3	Chloromethane	13,000	21,000	13,000	3,500	U
75-01-4	Vinyl Chloride	6,900	22,000	6,900	2,300	U
106-99-0	1,3-Butadiene	13,000	21,000	13,000	3,600	U
75-00-3	Chloroethane	13,000	21,000	13,000	2,700	U
64-17-5	Ethanol	34,000	220,000	34,000	15,000	U
67-64-1	Acetone	310,000	210,000	110,000	49,000	U
75-69-4	Trichlorofluoromethane	13,000	21,000	13,000	3,300	U
67-63-0	2-Propanol (Isopropyl Alcohol)	26,000	41,000	26,000	9,000	U
75-09-2	Methylene Chloride	13,000	21,000	13,000	6,100	U
76-13-1	Trichlorotrifluoroethane	6,900	22,000	6,900	3,100	U
75-15-0	Carbon Disulfide	22,000	41,000	22,000	6,500	U
75-34-3	1,1-Dichloroethane	13,000	22,000	13,000	3,200	U
78-93-3	2-Butanone (MEK)	130,000	41,000	13,000	4,500	U
141-78-6	Ethyl Acetate	27,000	41,000	27,000	11,000	U
110-54-3	n-Hexane	8,200,000	150,000	93,000	32,000	D
67-66-3	Chloroform	6,900	22,000	6,900	2,900	U
109-99-9	Tetrahydrofuran (THF)	6,900	41,000	6,900	2,700	U
107-06-2	1,2-Dichloroethane	6,900	21,000	6,900	2,400	U
71-43-2	Benzene	930,000	21,000	6,900	3,100	U
56-23-5	Carbon Tetrachloride	6,900	21,000	6,900	3,000	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE07-160-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-014

Test Code: EPA TO-15

Date Collected: 10/7/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/19/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.000050 Liter(s)

Test Notes:

0.0000070 Liter(s)

Container ID: 1SC01128

Initial Pressure (psig): -3.81 Final Pressure (psig): 7.53

Container Dilution Factor: 2.04

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>3,600,000</b>	41,000	14,000	6,100	
75-27-4	Bromodichloromethane	6,900	21,000	6,900	3,100	U
79-01-6	Trichloroethene	6,900	21,000	6,900	2,900	U
123-91-1	1,4-Dioxane	6,900	21,000	6,900	2,600	U
142-82-5	n-Heptane	<b>2,700,000</b>	21,000	13,000	3,500	
108-10-1	4-Methyl-2-pentanone	6,900	41,000	6,900	3,000	U
108-88-3	Toluene	<b>940,000</b>	21,000	6,900	2,700	
591-78-6	2-Hexanone	6,900	41,000	6,900	2,700	U
124-48-1	Dibromochloromethane	6,900	21,000	6,900	2,900	U
106-93-4	1,2-Dibromoethane	6,900	21,000	6,900	2,500	U
127-18-4	Tetrachloroethene	6,900	21,000	6,900	2,800	U
100-41-4	Ethylbenzene	<b>99,000</b>	21,000	6,900	3,100	
179601-23-1	m,p-Xylenes	<b>200,000</b>	41,000	14,000	5,700	
75-25-2	Bromoform	13,000	22,000	13,000	4,500	U
100-42-5	Styrene	13,000	21,000	13,000	3,500	U
95-47-6	o-Xylene	<b>61,000</b>	22,000	6,900	3,100	
108-67-8	1,3,5-Trimethylbenzene	<b>9,700</b>	22,000	6,900	3,100	J
95-63-6	1,2,4-Trimethylbenzene	<b>25,000</b>	21,000	6,900	3,000	
120-82-1	1,2,4-Trichlorobenzene	13,000	41,000	13,000	5,300	U
91-20-3	Naphthalene	13,000	21,000	13,000	5,300	U
1330-20-7	Xylenes, Total	<b>260,000</b>	41,000	14,000	5,700	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE08-260-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00276

Date Collected: 10/7/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.0050 Liter(s)

Initial Pressure (psig): -3.39 Final Pressure (psig): 7.86

Container Dilution Factor: 1.99

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	53	210	130	52	J
75-71-8	Dichlorodifluoromethane (CFC 12)	130	210	130	35	U
74-87-3	Chloromethane	130	210	130	34	U
75-01-4	Vinyl Chloride	68	210	68	23	U
106-99-0	1,3-Butadiene	130	210	130	35	U
75-00-3	Chloroethane	130	210	130	26	U
64-17-5	Ethanol	330	2,100	330	150	U
67-64-1	Acetone	1,100	2,100	1,100	480	U
75-69-4	Trichlorofluoromethane	130	200	130	32	U
67-63-0	2-Propanol (Isopropyl Alcohol)	130	400	250	88	J
75-09-2	Methylene Chloride	130	210	130	60	U
76-13-1	Trichlorotrifluoroethane	68	210	68	30	U
75-15-0	Carbon Disulfide	210	400	210	64	U
75-34-3	1,1-Dichloroethane	130	210	130	31	U
78-93-3	2-Butanone (MEK)	48	400	130	44	J
141-78-6	Ethyl Acetate	260	400	260	110	U
110-54-3	n-Hexane	1,700	210	130	44	U
67-66-3	Chloroform	68	210	68	28	U
109-99-9	Tetrahydrofuran (THF)	68	400	68	27	U
107-06-2	1,2-Dichloroethane	68	210	68	23	U
71-43-2	Benzene	37,000	210	68	31	U
56-23-5	Carbon Tetrachloride	68	200	68	29	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE08-260-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-015

Test Code: EPA TO-15

Date Collected: 10/7/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0050 Liter(s)

Test Notes:

Container ID: 1SC00276

Initial Pressure (psig): -3.39 Final Pressure (psig): 7.86

Container Dilution Factor: 1.99

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>23,000</b>	400	140	60	
75-27-4	Bromodichloromethane	68	210	68	31	U
79-01-6	Trichloroethene	68	200	68	29	U
123-91-1	1,4-Dioxane	68	210	68	25	U
142-82-5	n-Heptane	<b>180</b>	210	130	34	J
108-10-1	4-Methyl-2-pentanone	68	400	68	29	U
108-88-3	Toluene	68	210	68	26	U
591-78-6	2-Hexanone	68	400	68	26	U
124-48-1	Dibromochloromethane	68	210	68	28	U
106-93-4	1,2-Dibromoethane	68	210	68	25	U
127-18-4	Tetrachloroethene	<b>28</b>	210	68	27	J
100-41-4	Ethylbenzene	68	210	68	30	U
179601-23-1	m,p-Xylenes	140	400	140	56	U
75-25-2	Bromoform	130	210	130	44	U
100-42-5	Styrene	130	210	130	34	U
95-47-6	o-Xylene	68	210	68	31	U
108-67-8	1,3,5-Trimethylbenzene	68	210	68	31	U
95-63-6	1,2,4-Trimethylbenzene	68	210	68	29	U
120-82-1	1,2,4-Trichlorobenzene	130	400	130	52	U
91-20-3	Naphthalene	120	210	120	52	U
1330-20-7	Xylenes, Total	140	400	140	56	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE09-460-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00918

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.72 Final Pressure (psig): 6.49

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	6.4	2.5	1.5	0.63	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	2.5	1.5	0.42	J
74-87-3	Chloromethane	0.59	2.5	1.5	0.41	J
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	13	26	4.0	1.8	J
67-64-1	Acetone	82	25	13	5.8	
75-69-4	Trichlorofluoromethane	1.5	2.5	1.5	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	6.7	4.8	3.0	1.1	
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	0.85	2.6	0.82	0.37	J
75-15-0	Carbon Disulfide	3.2	4.8	2.6	0.77	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	18	4.8	1.5	0.53	
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.4	U
110-54-3	n-Hexane	56	2.5	1.5	0.53	
67-66-3	Chloroform	0.66	2.6	0.82	0.34	J
109-99-9	Tetrahydrofuran (THF)	0.82	4.8	0.82	0.32	U
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	150	2.5	0.82	0.37	
56-23-5	Carbon Tetrachloride	0.47	2.5	0.82	0.36	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE09-460-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-016

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00918

Initial Pressure (psig): -3.72 Final Pressure (psig): 6.49

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>120</b>	4.8	1.6	0.72	
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	0.82	2.5	0.82	0.35	U
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.30	U
142-82-5	n-Heptane	<b>86</b>	2.5	1.5	0.41	
108-10-1	4-Methyl-2-pentanone	<b>1.1</b>	4.8	0.82	0.35	J
108-88-3	Toluene	<b>100</b>	2.5	0.82	0.31	
591-78-6	2-Hexanone	0.82	4.8	0.82	0.32	U
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	<b>1.8</b>	2.5	0.82	0.33	J
100-41-4	Ethylbenzene	<b>39</b>	2.5	0.82	0.36	
179601-23-1	m,p-Xylenes	<b>56</b>	4.8	1.6	0.68	
75-25-2	Bromoform	1.5	2.6	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	<b>20</b>	2.6	0.82	0.37	
108-67-8	1,3,5-Trimethylbenzene	<b>12</b>	2.6	0.82	0.37	
95-63-6	1,2,4-Trimethylbenzene	<b>37</b>	2.5	0.82	0.36	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.63	U
91-20-3	Naphthalene	<b>5.1</b>	2.5	1.5	0.63	
1330-20-7	Xylenes, Total	<b>76</b>	4.8	1.6	0.68	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00193

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.36 Final Pressure (psig): 7.02

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.5	2.5	1.5	0.62	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.5	1.5	0.42	J
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.82	2.5	0.82	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	3.2	25	4.0	1.8	J
67-64-1	Acetone	28	25	13	5.8	
75-69-4	Trichlorofluoromethane	1.6	2.4	1.5	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.5	4.8	3.0	1.1	J
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	77	2.5	0.82	0.36	
75-15-0	Carbon Disulfide	65	4.8	2.6	0.77	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	4.0	4.8	1.5	0.53	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	2.7	2.5	1.5	0.53	
67-66-3	Chloroform	0.82	2.5	0.82	0.34	U
109-99-9	Tetrahydrofuran (THF)	0.82	4.8	0.82	0.32	U
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	6.0	2.5	0.82	0.37	
56-23-5	Carbon Tetrachloride	5.2	2.4	0.82	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-050-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-017

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00193

Initial Pressure (psig): -3.36 Final Pressure (psig): 7.02

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	3.8	4.8	1.6	0.72	J
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	0.82	2.4	0.82	0.35	U
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.30	U
142-82-5	n-Heptane	4.8	2.5	1.5	0.41	
108-10-1	4-Methyl-2-pentanone	0.82	4.8	0.82	0.35	U
108-88-3	Toluene	14	2.5	0.82	0.31	
591-78-6	2-Hexanone	0.82	4.8	0.82	0.32	U
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	4.6	2.5	0.82	0.33	
100-41-4	Ethylbenzene	2.0	2.5	0.82	0.36	J
179601-23-1	m,p-Xylenes	6.8	4.8	1.6	0.67	
75-25-2	Bromoform	1.5	2.5	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	2.2	2.5	0.82	0.37	J
108-67-8	1,3,5-Trimethylbenzene	1.1	2.5	0.82	0.37	J
95-63-6	1,2,4-Trimethylbenzene	4.5	2.5	0.82	0.36	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	3.4	2.5	1.5	0.62	
1330-20-7	Xylenes, Total	9.0	4.8	1.6	0.67	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01241

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.00050 Liter(s)

0.00010 Liter(s)

Initial Pressure (psig): -5.34 Final Pressure (psig): 6.99

Container Dilution Factor: 2.32

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>680</b>	2,400	1,500	600	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	1,500	2,400	1,500	400	<b>U</b>
74-87-3	Chloromethane	1,500	2,400	1,500	400	<b>U</b>
75-01-4	Vinyl Chloride	790	2,500	790	260	<b>U</b>
106-99-0	1,3-Butadiene	1,500	2,400	1,500	410	<b>U</b>
75-00-3	Chloroethane	1,500	2,400	1,500	310	<b>U</b>
64-17-5	Ethanol	3,900	25,000	3,900	1,700	<b>U</b>
67-64-1	Acetone	13,000	24,000	13,000	5,600	<b>U</b>
75-69-4	Trichlorofluoromethane	1,500	2,400	1,500	380	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2,900	4,600	2,900	1,000	<b>U</b>
75-09-2	Methylene Chloride	1,500	2,400	1,500	700	<b>U</b>
76-13-1	Trichlorotrifluoroethane	790	2,500	790	350	<b>U</b>
75-15-0	Carbon Disulfide	2,500	4,600	2,500	740	<b>U</b>
75-34-3	1,1-Dichloroethane	1,500	2,500	1,500	360	<b>U</b>
78-93-3	2-Butanone (MEK)	1,500	4,600	1,500	510	<b>U</b>
141-78-6	Ethyl Acetate	3,000	4,600	3,000	1,300	<b>U</b>
110-54-3	n-Hexane	<b>890,000</b>	12,000	7,400	2,600	<b>D</b>
67-66-3	Chloroform	790	2,500	790	330	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	790	4,600	790	310	<b>U</b>
107-06-2	1,2-Dichloroethane	790	2,400	790	270	<b>U</b>
71-43-2	Benzene	<b>30,000</b>	2,400	790	360	
56-23-5	Carbon Tetrachloride	790	2,400	790	340	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-100-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-018

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00050 Liter(s)

Test Notes:

0.00010 Liter(s)

Container ID: 1SC01241

Initial Pressure (psig): -5.34 Final Pressure (psig): 6.99

Container Dilution Factor: 2.32

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1,900,000	23,000	7,900	3,500	D
75-27-4	Bromodichloromethane	790	2,400	790	360	U
79-01-6	Trichloroethene	790	2,400	790	330	U
123-91-1	1,4-Dioxane	790	2,400	790	290	U
142-82-5	n-Heptane	580,000	12,000	7,400	2,000	D
108-10-1	4-Methyl-2-pentanone	790	4,600	790	340	U
108-88-3	Toluene	67,000	2,400	790	300	
591-78-6	2-Hexanone	790	4,600	790	310	U
124-48-1	Dibromochloromethane	790	2,400	790	320	U
106-93-4	1,2-Dibromoethane	790	2,400	790	290	U
127-18-4	Tetrachloroethene	790	2,400	790	320	U
100-41-4	Ethylbenzene	12,000	2,400	790	350	
179601-23-1	m,p-Xylenes	17,000	4,600	1,600	650	
75-25-2	Bromoform	1,500	2,500	1,500	510	U
100-42-5	Styrene	1,500	2,400	1,500	400	U
95-47-6	o-Xylene	5,400	2,500	790	360	
108-67-8	1,3,5-Trimethylbenzene	2,200	2,500	790	360	J
95-63-6	1,2,4-Trimethylbenzene	460	2,400	790	340	J
120-82-1	1,2,4-Trichlorobenzene	1,500	4,600	1,500	600	U
91-20-3	Naphthalene	1,400	2,400	1,400	600	U
1330-20-7	Xylenes, Total	22,000	4,600	1,600	650	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-250-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-019

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

Container ID: 1SS01053

Initial Pressure (psig): -4.04 Final Pressure (psig): 6.16

Container Dilution Factor: 1.96

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	6,300	10,000	6,300	2,500	U
75-71-8	Dichlorodifluoromethane (CFC 12)	6,300	10,000	6,300	1,700	U
74-87-3	Chloromethane	6,300	10,000	6,300	1,700	U
75-01-4	Vinyl Chloride	3,300	10,000	3,300	1,100	U
106-99-0	1,3-Butadiene	6,300	10,000	6,300	1,700	U
75-00-3	Chloroethane	6,300	10,000	6,300	1,300	U
64-17-5	Ethanol	16,000	100,000	16,000	7,300	U
67-64-1	Acetone	53,000	100,000	53,000	24,000	U
75-69-4	Trichlorofluoromethane	6,300	10,000	6,300	1,600	U
67-63-0	2-Propanol (Isopropyl Alcohol)	12,000	20,000	12,000	4,300	U
75-09-2	Methylene Chloride	6,300	10,000	6,300	2,900	U
76-13-1	Trichlorotrifluoroethane	3,300	10,000	3,300	1,500	U
75-15-0	Carbon Disulfide	11,000	20,000	11,000	3,100	U
75-34-3	1,1-Dichloroethane	6,500	11,000	6,500	1,500	U
78-93-3	2-Butanone (MEK)	6,300	20,000	6,300	2,200	U
141-78-6	Ethyl Acetate	13,000	20,000	13,000	5,500	U
110-54-3	n-Hexane	<b>1,400,000</b>	10,000	6,300	2,200	
67-66-3	Chloroform	3,300	10,000	3,300	1,400	U
109-99-9	Tetrahydrofuran (THF)	3,300	20,000	3,300	1,300	U
107-06-2	1,2-Dichloroethane	3,300	10,000	3,300	1,200	U
71-43-2	Benzene	<b>440,000</b>	10,000	3,300	1,500	
56-23-5	Carbon Tetrachloride	3,300	10,000	3,300	1,500	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-250-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-019

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

Container ID: 1SS01053

Initial Pressure (psig): -4.04 Final Pressure (psig): 6.16

Container Dilution Factor: 1.96

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1,300,000	20,000	6,700	2,900	
75-27-4	Bromodichloromethane	3,300	10,000	3,300	1,500	U
79-01-6	Trichloroethene	3,300	10,000	3,300	1,400	U
123-91-1	1,4-Dioxane	3,300	10,000	3,300	1,200	U
142-82-5	n-Heptane	1,400,000	10,000	6,300	1,700	
108-10-1	4-Methyl-2-pentanone	3,300	20,000	3,300	1,400	U
108-88-3	Toluene	980,000	10,000	3,300	1,300	
591-78-6	2-Hexanone	3,300	20,000	3,300	1,300	U
124-48-1	Dibromochloromethane	3,300	10,000	3,300	1,400	U
106-93-4	1,2-Dibromoethane	3,300	10,000	3,300	1,200	U
127-18-4	Tetrachloroethene	3,300	10,000	3,300	1,400	U
100-41-4	Ethylbenzene	84,000	10,000	3,300	1,500	
179601-23-1	m,p-Xylenes	260,000	20,000	6,700	2,700	
75-25-2	Bromoform	6,300	10,000	6,300	2,200	U
100-42-5	Styrene	6,300	10,000	6,300	1,700	U
95-47-6	o-Xylene	79,000	10,000	3,300	1,500	
108-67-8	1,3,5-Trimethylbenzene	9,200	10,000	3,300	1,500	J
95-63-6	1,2,4-Trimethylbenzene	12,000	10,000	3,300	1,500	
120-82-1	1,2,4-Trichlorobenzene	6,300	20,000	6,300	2,500	U
91-20-3	Naphthalene	6,100	10,000	6,100	2,500	U
1330-20-7	Xylenes, Total	340,000	20,000	6,700	2,700	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-300-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

ALS Sample ID: P2005742-020

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SS00496

Initial Pressure (psig): -5.41 Final Pressure (psig): 6.88

Container Dilution Factor: 2.32

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	4,900	8,000	4,900	2,000	U
75-71-8	Dichlorodifluoromethane (CFC 12)	4,900	8,000	4,900	1,300	U
74-87-3	Chloromethane	4,900	8,000	4,900	1,300	U
75-01-4	Vinyl Chloride	2,600	8,200	2,600	880	U
106-99-0	1,3-Butadiene	4,900	8,000	4,900	1,400	U
75-00-3	Chloroethane	4,900	8,000	4,900	1,000	U
64-17-5	Ethanol	13,000	82,000	13,000	5,700	U
67-64-1	Acetone	42,000	80,000	42,000	19,000	U
75-69-4	Trichlorofluoromethane	4,900	7,900	4,900	1,300	U
67-63-0	2-Propanol (Isopropyl Alcohol)	9,700	15,000	9,700	3,400	U
75-09-2	Methylene Chloride	4,900	8,000	4,900	2,300	U
76-13-1	Trichlorotrifluoroethane	2,600	8,200	2,600	1,200	U
75-15-0	Carbon Disulfide	8,400	15,000	8,400	2,500	U
75-34-3	1,1-Dichloroethane	5,100	8,400	5,100	1,200	U
78-93-3	2-Butanone (MEK)	4,900	15,000	4,900	1,700	U
141-78-6	Ethyl Acetate	10,000	15,000	10,000	4,300	U
110-54-3	n-Hexane	<b>950,000</b>	8,000	4,900	1,700	
67-66-3	Chloroform	2,600	8,200	2,600	1,100	U
109-99-9	Tetrahydrofuran (THF)	2,600	15,000	2,600	1,000	U
107-06-2	1,2-Dichloroethane	2,600	8,000	2,600	910	U
71-43-2	Benzene	<b>230,000</b>	8,000	2,600	1,200	
56-23-5	Carbon Tetrachloride	2,600	7,900	2,600	1,100	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV03-300-204

ALS Project ID: P2005742

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005742-020

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SS00496

Initial Pressure (psig): -5.41 Final Pressure (psig): 6.88

Container Dilution Factor: 2.32

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	940,000	15,000	5,300	2,300	
75-27-4	Bromodichloromethane	2,600	8,000	2,600	1,200	U
79-01-6	Trichloroethene	2,600	7,900	2,600	1,100	U
123-91-1	1,4-Dioxane	2,600	8,000	2,600	970	U
142-82-5	n-Heptane	740,000	8,000	4,900	1,300	
108-10-1	4-Methyl-2-pentanone	2,600	15,000	2,600	1,100	U
108-88-3	Toluene	700,000	8,000	2,600	1,000	
591-78-6	2-Hexanone	2,600	15,000	2,600	1,000	U
124-48-1	Dibromochloromethane	2,600	8,000	2,600	1,100	U
106-93-4	1,2-Dibromoethane	2,600	8,000	2,600	960	U
127-18-4	Tetrachloroethene	2,600	8,000	2,600	1,100	U
100-41-4	Ethylbenzene	75,000	8,000	2,600	1,200	
179601-23-1	m,p-Xylenes	200,000	15,000	5,300	2,200	
75-25-2	Bromoform	4,900	8,200	4,900	1,700	U
100-42-5	Styrene	4,900	8,000	4,900	1,300	U
95-47-6	o-Xylene	60,000	8,200	2,600	1,200	
108-67-8	1,3,5-Trimethylbenzene	10,000	8,200	2,600	1,200	
95-63-6	1,2,4-Trimethylbenzene	24,000	8,000	2,600	1,100	
120-82-1	1,2,4-Trichlorobenzene	4,900	15,000	4,900	2,000	U
91-20-3	Naphthalene	4,800	8,000	4,800	2,000	U
1330-20-7	Xylenes, Total	260,000	15,000	5,300	2,200	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201019-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201019-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date(s) Collected: 10/5 - 10/7/20

Analyst: Simon Cao/Topacio De Leon/Wida Ang

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 10/19 - 10/20/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201019-MB	100	102	97	70-130	
Method Blank	P201020-MB	100	102	97	70-130	
Lab Control Sample	P201019-LCS	101	99	96	70-130	
Lab Control Sample	P201020-LCS	99	99	96	70-130	
Duplicate Lab Control Sample	P201019-DLCS	100	99	95	70-130	
Duplicate Lab Control Sample	P201020-DLCS	99	98	95	70-130	
SV127-250-604	P2005742-001	101	101	98	70-130	
SV127-250-204	P2005742-002	99	100	98	70-130	
SV127-350-204	P2005742-003	98	101	99	70-130	
SV127-450-204	P2005742-004	101	102	98	70-130	
SV142-030-204	P2005742-005	100	100	98	70-130	
SV142-050-204	P2005742-006	100	100	97	70-130	
SV142-170-204	P2005742-007	100	101	98	70-130	
SV142-170-604	P2005742-008	100	101	97	70-130	
SV142-250-204	P2005742-009	99	100	97	70-130	
SV142-350-204	P2005742-010	100	102	97	70-130	
SV142-450-204	P2005742-011	98	99	96	70-130	
SVE06-060-204	P2005742-012	100	99	96	70-130	
SVE06-060-604	P2005742-013	100	100	96	70-130	
SVE07-160-204	P2005742-014	100	101	96	70-130	
SVE08-260-204	P2005742-015	102	79	86	70-130	
SVE09-460-204	P2005742-016	100	88	89	70-130	
SV03-050-204	P2005742-017	99	101	96	70-130	
SV03-100-204	P2005742-018	101	85	87	70-130	
SV03-250-204	P2005742-019	100	98	95	70-130	
SV03-300-204	P2005742-020	100	98	96	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201019-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	µg/m <sup>3</sup>	LCS	DLCS	µg/m <sup>3</sup>	LCS	DLCS	Acceptance RPD	
115-07-1	Propene	210	196	204	<b>93</b>	<b>97</b>	57-136	4	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	183	184	<b>87</b>	<b>88</b>	59-128	1	25	
74-87-3	Chloromethane	206	219	213	<b>106</b>	<b>103</b>	59-132	3	25	
75-01-4	Vinyl Chloride	208	195	197	<b>94</b>	<b>95</b>	64-127	1	25	
106-99-0	1,3-Butadiene	210	215	219	<b>102</b>	<b>104</b>	66-134	2	25	
75-00-3	Chloroethane	204	193	195	<b>95</b>	<b>96</b>	63-127	1	25	
64-17-5	Ethanol	998	894	915	<b>90</b>	<b>92</b>	59-125	2	25	
67-64-1	Acetone	1,030	895	906	<b>87</b>	<b>88</b>	58-128	1	25	
75-69-4	Trichlorofluoromethane	204	175	176	<b>86</b>	<b>86</b>	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	375	373	<b>92</b>	<b>91</b>	52-125	1	25	
75-09-2	Methylene Chloride	208	194	195	<b>93</b>	<b>94</b>	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	214	185	185	<b>86</b>	<b>86</b>	66-126	0	25	
75-15-0	Carbon Disulfide	428	396	399	<b>93</b>	<b>93</b>	57-134	0	25	
75-34-3	1,1-Dichloroethane	212	197	199	<b>93</b>	<b>94</b>	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	402	405	<b>98</b>	<b>98</b>	67-130	0	25	
141-78-6	Ethyl Acetate	422	494	499	<b>117</b>	<b>118</b>	65-128	0.9	25	
110-54-3	n-Hexane	212	186	188	<b>88</b>	<b>89</b>	63-120	1	25	
67-66-3	Chloroform	214	188	189	<b>88</b>	<b>88</b>	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	400	378	380	<b>95</b>	<b>95</b>	64-123	0	25	
107-06-2	1,2-Dichloroethane	208	191	191	<b>92</b>	<b>92</b>	65-128	0	25	
71-43-2	Benzene	204	188	189	<b>92</b>	<b>93</b>	69-119	1	25	
56-23-5	Carbon Tetrachloride	210	173	174	<b>82</b>	<b>83</b>	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201019-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	382	386		92	93	70-117	1	25
75-27-4	Bromodichloromethane	210	193	194		92	92	72-128	0	25
79-01-6	Trichloroethene	206	177	179		86	87	71-123	1	25
123-91-1	1,4-Dioxane	208	201	204		97	98	71-122	1	25
142-82-5	n-Heptane	210	196	200		93	95	69-123	2	25
108-10-1	4-Methyl-2-pentanone	416	430	434		103	104	67-130	1	25
108-88-3	Toluene	206	179	180		87	87	66-119	0	25
591-78-6	2-Hexanone	404	421	422		104	104	62-128	0	25
124-48-1	Dibromochloromethane	210	191	192		91	91	70-130	0	25
106-93-4	1,2-Dibromoethane	208	191	192		92	92	74-122	0	25
127-18-4	Tetrachloroethene	206	170	169		83	82	66-124	1	25
100-41-4	Ethylbenzene	206	184	185		89	90	70-124	1	25
179601-23-1	m,p-Xylenes	412	363	363		88	88	61-134	0	25
75-25-2	Bromoform	208	192	192		92	92	66-139	0	25
100-42-5	Styrene	206	189	189		92	92	73-127	0	25
95-47-6	o-Xylene	206	183	183		89	89	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	206	181	182		88	88	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	204	179	180		88	88	66-132	0	25
120-82-1	1,2,4-Trichlorobenzene	388	313	318		81	82	55-142	1	25
91-20-3	Naphthalene	198	157	159		79	80	57-138	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
115-07-1	Propene	210	213	217		<b>101</b>	<b>103</b>	57-136	2	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	181	184		<b>86</b>	<b>88</b>	59-128	2	25
74-87-3	Chloromethane	206	164	162		<b>80</b>	<b>79</b>	59-132	1	25
75-01-4	Vinyl Chloride	208	198	200		<b>95</b>	<b>96</b>	64-127	1	25
106-99-0	1,3-Butadiene	210	216	220		<b>103</b>	<b>105</b>	66-134	2	25
75-00-3	Chloroethane	204	195	199		<b>96</b>	<b>98</b>	63-127	2	25
64-17-5	Ethanol	998	909	928		<b>91</b>	<b>93</b>	59-125	2	25
67-64-1	Acetone	1,030	906	913		<b>88</b>	<b>89</b>	58-128	1	25
75-69-4	Trichlorofluoromethane	204	173	176		<b>85</b>	<b>86</b>	62-126	1	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	354	357		<b>87</b>	<b>88</b>	52-125	1	25
75-09-2	Methylene Chloride	208	196	197		<b>94</b>	<b>95</b>	62-115	1	25
76-13-1	Trichlorotrifluoroethane	214	181	182		<b>85</b>	<b>85</b>	66-126	0	25
75-15-0	Carbon Disulfide	428	400	405		<b>93</b>	<b>95</b>	57-134	2	25
75-34-3	1,1-Dichloroethane	212	198	198		<b>93</b>	<b>93</b>	68-126	0	25
78-93-3	2-Butanone (MEK)	412	404	408		<b>98</b>	<b>99</b>	67-130	1	25
141-78-6	Ethyl Acetate	422	505	507		<b>120</b>	<b>120</b>	65-128	0	25
110-54-3	n-Hexane	212	191	191		<b>90</b>	<b>90</b>	63-120	0	25
67-66-3	Chloroform	214	189	189		<b>88</b>	<b>88</b>	68-123	0	25
109-99-9	Tetrahydrofuran (THF)	400	383	384		<b>96</b>	<b>96</b>	64-123	0	25
107-06-2	1,2-Dichloroethane	208	189	190		<b>91</b>	<b>91</b>	65-128	0	25
71-43-2	Benzene	204	190	190		<b>93</b>	<b>93</b>	69-119	0	25
56-23-5	Carbon Tetrachloride	210	171	172		<b>81</b>	<b>82</b>	68-132	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005742  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	386	388	93	93	70-117	0	25	
75-27-4	Bromodichloromethane	210	192	194	91	92	72-128	1	25	
79-01-6	Trichloroethene	206	178	179	86	87	71-123	1	25	
123-91-1	1,4-Dioxane	208	203	203	98	98	71-122	0	25	
142-82-5	n-Heptane	210	199	201	95	96	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	416	438	439	105	106	67-130	0.9	25	
108-88-3	Toluene	206	180	181	87	88	66-119	1	25	
591-78-6	2-Hexanone	404	425	425	105	105	62-128	0	25	
124-48-1	Dibromochloromethane	210	191	190	91	90	70-130	1	25	
106-93-4	1,2-Dibromoethane	208	193	193	93	93	74-122	0	25	
127-18-4	Tetrachloroethene	206	170	170	83	83	66-124	0	25	
100-41-4	Ethylbenzene	206	184	185	89	90	70-124	1	25	
179601-23-1	m,p-Xylenes	412	363	363	88	88	61-134	0	25	
75-25-2	Bromoform	208	191	191	92	92	66-139	0	25	
100-42-5	Styrene	206	189	189	92	92	73-127	0	25	
95-47-6	o-Xylene	206	183	184	89	89	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	206	179	180	87	87	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	204	178	179	87	88	66-132	1	25	
120-82-1	1,2,4-Trichlorobenzene	388	314	318	81	82	55-142	1	25	
91-20-3	Naphthalene	198	157	159	79	80	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005742  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 10192001.D  
Analyst: Wida Ang Date Analyzed: 10/19/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 03:33  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	198797	9.16	853994	11.11	368151	15.45
<b>Upper Limit</b>	278316	9.49	1195592	11.44	515411	15.78
<b>Lower Limit</b>	119278	8.83	512396	10.78	220891	15.12

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
Client Sample ID		AREA #	RT #	AREA #
01	Method Blank	183536	9.13	784938
02	Lab Control Sample	195135	9.15	833260
03	Duplicate Lab Control Sample	194373	9.16	828908
04	SV142-170-204	191220	9.13	820000
05	SV127-250-604	181478	9.13	788315
06	SV127-250-204	184886	9.13	791779
07	SV127-350-204	189646	9.14	809469
08	SVE06-060-204	195534	9.13	846667
09	SVE06-060-604	195950	9.13	849482
10	SVE07-160-204	195661	9.13	847697
11	SVE07-160-204 (Dilution)	191674	9.13	827036
12	SV127-450-204	190116	9.13	823922
13	SV142-030-204	180233	9.13	778662
14	SV127-450-204 (Dilution)	176423	9.13	760657
15	SV142-050-204	190846	9.13	825573
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005742  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 10202001.D  
Analyst: Simon Cao Date Analyzed: 10/20/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 01:03  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	197472	9.16	839356	11.11	361414	15.45
<b>Upper Limit</b>	276461	9.49	1175098	11.44	505980	15.78
<b>Lower Limit</b>	118483	8.83	503614	10.78	216848	15.12

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
		AREA #	RT #	AREA #
01	Method Blank	180222	9.13	771059
02	Lab Control Sample	192832	9.16	822582
03	Duplicate Lab Control Sample	191564	9.16	817728
04	SV142-170-604	178486	9.13	772446
05	SV142-250-204	183561	9.14	785464
06	SV142-350-204	182350	9.13	782271
07	SV142-450-204	183075	9.13	783261
08	SVE08-260-204	192528	9.14	848401
09	SVE09-460-204	188289	9.13	814366
10	SV03-050-204	189460	9.13	813006
11	SV03-100-204	200750	9.14	848010
12	SV03-100-204 (Dilution)	196014	9.13	851724
13	SV03-250-204	195846	9.13	845543
14	SV03-300-204	192326	9.13	838501
15				
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

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RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



2655 Park Center Dr., Suite A  
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[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

October 27, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the sample(s) submitted to our laboratory on October 12, 2020. For your reference, these analyses have been assigned our service request number P2005743.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*Kate Kaneko*  
Oct 27, 2020, 9:41 am

Kate Kaneko  
Project Manager

---

RIGHT SOLUTIONS | RIGHT PARTNER



2655 Park Center Dr., Suite A  
 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2005743

## CASE NARRATIVE

The samples were received intact under chain of custody on October 12, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2005743-007	Toluene, Ethylbenzene
P2005743-014,015,019	Propene

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

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## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2005743

Date Received: 10/12/2020  
 Time Received: 11:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
SV04-050-604	P2005743-001	Air	10/5/2020	14:07	1SS00037	-4.24	7.69	X
SV04-050-204	P2005743-002	Air	10/5/2020	14:07	1SC00581	-2.95	9.44	X
SV04-100-204	P2005743-003	Air	10/5/2020	14:14	1SC00050	-3.19	6.47	X
SV04-250-204	P2005743-004	Air	10/5/2020	14:20	1SS00839	-2.67	6.69	X
SV04-300-204	P2005743-005	Air	10/5/2020	14:29	1SC00192	-3.36	6.95	X
SV08-050-204	P2005743-006	Air	10/5/2020	11:14	1SC00621	-2.35	7.77	X
SV08-100-204	P2005743-007	Air	10/5/2020	11:18	1SC00775	-3.51	7.51	X
SV08-250-204	P2005743-008	Air	10/5/2020	11:26	1SS00871	-4.26	6.58	X
SV09-050-204	P2005743-009	Air	10/5/2020	14:56	1SC01248	-3.50	5.88	X
SV09-100-204	P2005743-010	Air	10/5/2020	15:01	1SS00011	-3.40	6.67	X
SV09-250-204	P2005743-011	Air	10/5/2020	15:08	1SS00233	-2.77	7.14	X
SV09-266-204	P2005743-012	Air	10/5/2020	15:13	1SC00491	-3.32	7.61	X
SV111-025-204	P2005743-013	Air	10/6/2020	11:40	1SC01294	-2.88	9.57	X
SV111-050-204	P2005743-014	Air	10/6/2020	11:43	1SS00012	-3.45	6.43	X
SV111-050-604	P2005743-015	Air	10/6/2020	11:43	1SC01034	-2.90	6.93	X
SV111-150-204	P2005743-016	Air	10/6/2020	11:48	1SC00084	-3.86	5.89	X
SV111-250-204	P2005743-017	Air	10/6/2020	11:52	1SS00186	-4.45	6.48	X
SV111-350-204	P2005743-018	Air	10/6/2020	11:55	1SC00069	-2.90	8.11	X
SV111-450-204	P2005743-019	Air	10/6/2020	12:04	1SC00931	-3.52	7.36	X

**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-05**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **2005743**

Company Name & Address (Reporting Information)		Project Name		ALS Contact: Kate Kaneko 1 (805) 577-2089		Analysis Method	Comments e.g. Actual Preservative or specific instructions
EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000		Kirtland AFB Bulk Fuels Facility					
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143 Email Address for Result Reporting		P.O. # / Billing Information 17682		Project Number 62735DM02			
Tara Lamond: Amanda Smith: Pam Moss:		Sampler (Print & Sign) <i>Stephen Newman</i>					
Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume
SV04-050-604	10/5/2020	1407	1SS00037	NA	-27.0	-4.0	1L
SV04-050-204	10/5/2020	1407	1SC00581	NA	-26.5	0.0	1L
SV04-100-204	10/5/2020	1414	1SC00050	NA	-26.5	0.0	1L
SV04-250-204	10/5/2020	1420	1SS00839	NA	-27.5	-1.0	1L
SV04-300-204	10/5/2020	1429	1SC00192	NA	-28.9	-3.0	1L
SV08-050-204	10/5/2020	1114	1SC00621	NA	-26.5	-2.0	1L
SV08-100-204	10/5/2020	1118	1SC00775	NA	-24.0	-4.5	1L
SV08-250-204	10/5/2020	1126	1SS00871	NA	-25.5	-3.5	1L
SV09-050-204	10/5/2020	1456	1SC01248	NA	-26.5	-3.0	1L

FedEX Tracking Number: **1028 3402 2206**  
 Shipping information: Box number **3** of **6**  
 Report Tier Levels - please select  
 Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package) \_\_\_\_\_ X \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date: **10/17/20** Time: **1500**  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date: **10-12-20** Time: **1100**  
 Chain of Custody Seal: (Circle) **INTACT** BROKEN ABSENT  
 EDD required: **Yes**  
 Type: **ERPIMS/EQUIS**  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Project Requirements: QAPP  
 Cooler / Blank Temperature **NA** °C

Associated with Trip blank: SVTB204-01



# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-06**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **2005743**

<b>Company Name &amp; Address (Reporting Information)</b> EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000		<b>Project Name</b> Kirtland AFB Bulk Fuels Facility		<b>ALS Contact:</b> Kate Kaneko 1 (805) 577-2089		<b>Analysis Method</b> TO-15 Project Specific List	<b>Comments</b> e.g. Actual Preservative or specific instructions	
<b>Project Manager / Project Chemist</b> Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143		<b>Project Number</b> 62735DM02		<b>ALS Project No.</b> 2005743				
<b>Email Address for Result Reporting</b> Tara Lamond: <a href="mailto:tlamond@east.com">tlamond@east.com</a> Amanda Smith: <a href="mailto:asmith@east.com">asmith@east.com</a> Pam Moss: <a href="mailto:pmoss@east.com">pmoss@east.com</a>		<b>P.O. # / Billing Information</b> 17682		<b>Sampler (Print &amp; Sign)</b> <i>Stephen Newman</i>				
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume
SV09-100-204	6	10/5/2020	1501	1SS00011	NA	-25.0	-0.5	1L
SV09-250-204	11	10/5/2020	1508	1SS00233	NA	-23.0	-2.0	1L
SV09-266-204	12	10/5/2020	1513	1SC00491	NA	-25.5	-1.0	1L
SV111-025-204	13	10/6/2020	1140	1SC01294	NA	-25.0	-2.0	1L
SV111-050-204	14	10/6/2020	1143	1SS00012	NA	-26.0	-2.0	1L
SV111-050-604	15	10/6/2020	1143	1SC01034	NA	-27.0	-2.0	1L
SV111-150-204	16	10/6/2020	1148	1SC00084	NA	-25.5	-3.0	1L
SV111-250-204	17	10/6/2020	1152	1SS00186	NA	-25.0	-5.0	1L
SV111-350-204	18	10/6/2020	1155	1SC00069	NA	-26.0	-2.0	1L
SV111-450-204	19	10/6/2020	1204	1SC00931	NA	-26.5	-3.0	1L
FedEX Tracking Number: <b>1028 3407 2206</b> Shipping information: Box number <b>3</b> of <b>4</b>								
Associated with Trip blank: SVTB204-01								
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/> X				EDD required: <b>Yes</b> Type: <b>ERPIMS/EQUIS</b>		Chain of Custody Seal: (Circle) INTACT <input checked="" type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT		Project Requirements: QAPP
Relinquished by: <i>[Signature]</i> Date: <b>10/17/20</b> Time: <b>1500</b>		Received by: (Signature) <i>[Signature]</i>		Date: <b>10/17-20</b> Time: <b>1100</b>		Cooler / Blank Temperature <b>NA</b> °C		

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2005743  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/12/20 Date opened: 10/12/20 by: ADAVID

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? <u>Top and bottom of box sealing.</u> Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2005743-001.01	1.0 L Source Silonite Canister					
P2005743-002.01	1.0 L Source Can					
P2005743-003.01	1.0 L Source Can					
P2005743-004.01	1.0 L Source Silonite Canister					
P2005743-005.01	1.0 L Source Can					
P2005743-006.01	1.0 L Source Can					
P2005743-007.01	1.0 L Source Can					
P2005743-008.01	1.0 L Source Silonite Canister					
P2005743-009.01	1.0 L Source Can					
P2005743-010.01	1.0 L Source Silonite Canister					
P2005743-011.01	1.0 L Source Silonite Canister					
P2005743-012.01	1.0 L Source Can					
P2005743-013.01	1.0 L Source Can					
P2005743-014.01	1.0 L Source Silonite Canister					
P2005743-015.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00037

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -4.24 Final Pressure (psig): 7.69

Container Dilution Factor: 2.14

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2,000	3,200	2,000	810	U
75-71-8	Dichlorodifluoromethane (CFC 12)	690	1,100	690	190	U
74-87-3	Chloromethane	1,700	2,700	1,700	450	U
75-01-4	Vinyl Chloride	710	2,200	710	240	U
106-99-0	1,3-Butadiene	1,500	2,500	1,500	430	U
75-00-3	Chloroethane	1,300	2,100	1,300	270	U
64-17-5	Ethanol	4,700	30,000	4,700	2,100	U
67-64-1	Acetone	12,000	23,000	12,000	5,400	U
75-69-4	Trichlorofluoromethane	610	970	610	150	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,700	4,400	2,700	960	U
75-09-2	Methylene Chloride	990	1,600	990	460	U
76-13-1	Trichlorotrifluoroethane	240	740	240	110	U
75-15-0	Carbon Disulfide	1,900	3,400	1,900	550	U
75-34-3	1,1-Dichloroethane	870	1,400	870	210	U
78-93-3	2-Butanone (MEK)	1,200	3,600	1,200	400	U
141-78-6	Ethyl Acetate	1,900	3,000	1,900	830	U
110-54-3	n-Hexane	<b>1,000</b>	1,600	970	330	J
67-66-3	Chloroform	370	1,200	370	160	U
109-99-9	Tetrahydrofuran (THF)	620	3,600	620	240	U
107-06-2	1,2-Dichloroethane	450	1,400	450	160	U
71-43-2	Benzene	<b>34,000</b>	1,700	570	260	
56-23-5	Carbon Tetrachloride	290	870	290	130	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-050-604

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-001

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS00037

Initial Pressure (psig): -4.24 Final Pressure (psig): 7.69

Container Dilution Factor: 2.14

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	2,200	3,100	1,100	470	J
75-27-4	Bromodichloromethane	270	830	270	120	U
79-01-6	Trichloroethene	340	1,000	340	140	U
123-91-1	1,4-Dioxane	500	1,500	500	190	U
142-82-5	n-Heptane	850	1,400	840	220	J
108-10-1	4-Methyl-2-pentanone	550	2,600	440	190	J
108-88-3	Toluene	1,000	1,500	480	180	J
591-78-6	2-Hexanone	440	2,600	440	170	U
124-48-1	Dibromochloromethane	210	650	210	88	U
106-93-4	1,2-Dibromoethane	240	720	240	86	U
127-18-4	Tetrachloroethene	270	820	270	110	U
100-41-4	Ethylbenzene	420	1,300	420	180	U
179601-23-1	m,p-Xylenes	840	2,500	840	350	U
75-25-2	Bromoform	330	550	330	110	U
100-42-5	Styrene	800	1,300	800	220	U
95-47-6	o-Xylene	420	1,300	420	190	U
108-67-8	1,3,5-Trimethylbenzene	370	1,200	370	170	U
95-63-6	1,2,4-Trimethylbenzene	370	1,100	370	160	U
120-82-1	1,2,4-Trichlorobenzene	460	1,400	460	190	U
91-20-3	Naphthalene	630	1,100	630	270	U
1330-20-7	Xylenes, Total	840	2,500	840	350	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00581

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -2.95 Final Pressure (psig): 9.44

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1,900	3,100	1,900	770	U
75-71-8	Dichlorodifluoromethane (CFC 12)	660	1,100	660	180	U
74-87-3	Chloromethane	1,600	2,600	1,600	430	U
75-01-4	Vinyl Chloride	680	2,100	680	230	U
106-99-0	1,3-Butadiene	1,500	2,400	1,500	410	U
75-00-3	Chloroethane	1,200	2,000	1,200	260	U
64-17-5	Ethanol	4,500	29,000	4,500	2,000	U
67-64-1	Acetone	12,000	22,000	12,000	5,200	U
75-69-4	Trichlorofluoromethane	580	930	580	150	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,600	4,200	2,600	920	U
75-09-2	Methylene Chloride	940	1,500	940	440	U
76-13-1	Trichlorotrifluoroethane	230	710	230	100	U
75-15-0	Carbon Disulfide	1,800	3,300	1,800	530	U
75-34-3	1,1-Dichloroethane	840	1,400	840	200	U
78-93-3	2-Butanone (MEK)	1,100	3,500	1,100	380	U
141-78-6	Ethyl Acetate	1,800	2,800	1,800	800	U
110-54-3	n-Hexane	<b>640</b>	1,500	930	320	J
67-66-3	Chloroform	360	1,100	360	150	U
109-99-9	Tetrahydrofuran (THF)	590	3,500	590	230	U
107-06-2	1,2-Dichloroethane	430	1,300	430	150	U
71-43-2	Benzene	<b>62,000</b>	1,700	550	250	
56-23-5	Carbon Tetrachloride	280	830	280	120	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV04-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-002

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SC00581

Initial Pressure (psig): -2.95 Final Pressure (psig): 9.44

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	2,400	3,000	1,000	450	J
75-27-4	Bromodichloromethane	260	800	260	120	U
79-01-6	Trichloroethene	320	970	320	140	U
123-91-1	1,4-Dioxane	480	1,500	480	180	U
142-82-5	n-Heptane	530	1,300	800	210	J
108-10-1	4-Methyl-2-pentanone	430	2,500	430	180	U
108-88-3	Toluene	610	1,400	460	180	J
591-78-6	2-Hexanone	430	2,500	430	170	U
124-48-1	Dibromochloromethane	200	630	200	84	U
106-93-4	1,2-Dibromoethane	230	690	230	83	U
127-18-4	Tetrachloroethene	260	790	260	100	U
100-41-4	Ethylbenzene	400	1,200	400	180	U
179601-23-1	m,p-Xylenes	800	2,400	800	330	U
75-25-2	Bromoform	320	530	320	110	U
100-42-5	Styrene	770	1,300	770	210	U
95-47-6	o-Xylene	400	1,300	400	180	U
108-67-8	1,3,5-Trimethylbenzene	350	1,100	350	160	U
95-63-6	1,2,4-Trimethylbenzene	350	1,100	350	150	U
120-82-1	1,2,4-Trichlorobenzene	440	1,400	440	180	U
91-20-3	Naphthalene	610	1,000	610	250	U
1330-20-7	Xylenes, Total	800	2,400	800	330	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-100-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-003

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.000075 Liter(s)

Test Notes:

Container ID: 1SC00050

Initial Pressure (psig): -3.19 Final Pressure (psig): 6.47

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	4,600	7,400	4,600	1,900	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1,600	2,600	1,600	430	U
74-87-3	Chloromethane	3,800	6,200	3,800	1,000	U
75-01-4	Vinyl Chloride	1,600	5,100	1,600	550	U
106-99-0	1,3-Butadiene	3,600	5,800	3,600	980	U
75-00-3	Chloroethane	3,000	4,800	3,000	610	U
64-17-5	Ethanol	<b>5,300</b>	69,000	11,000	4,800	J
67-64-1	Acetone	28,000	54,000	28,000	12,000	U
75-69-4	Trichlorofluoromethane	1,400	2,200	1,400	350	U
67-63-0	2-Propanol (Isopropyl Alcohol)	6,300	10,000	6,300	2,200	U
75-09-2	Methylene Chloride	2,300	3,700	2,300	1,100	U
76-13-1	Trichlorotrifluoroethane	540	1,700	540	240	U
75-15-0	Carbon Disulfide	4,300	7,900	4,300	1,300	U
75-34-3	1,1-Dichloroethane	2,000	3,300	2,000	470	U
78-93-3	2-Butanone (MEK)	2,700	8,300	2,700	920	U
141-78-6	Ethyl Acetate	4,400	6,800	4,400	1,900	U
110-54-3	n-Hexane	<b>630,000</b>	3,600	2,200	770	
67-66-3	Chloroform	850	2,700	850	360	U
109-99-9	Tetrahydrofuran (THF)	1,400	8,300	1,400	560	U
107-06-2	1,2-Dichloroethane	1,000	3,200	1,000	360	U
71-43-2	Benzene	<b>240,000</b>	4,000	1,300	590	
56-23-5	Carbon Tetrachloride	660	2,000	660	290	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00050

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.000075 Liter(s)

Initial Pressure (psig): -3.19 Final Pressure (psig): 6.47

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	650,000	7,100	2,400	1,100	
75-27-4	Bromodichloromethane	620	1,900	620	280	U
79-01-6	Trichloroethene	340	2,300	780	330	J
123-91-1	1,4-Dioxane	1,200	3,500	1,200	430	U
142-82-5	n-Heptane	530,000	3,100	1,900	510	
108-10-1	4-Methyl-2-pentanone	1,000	6,000	1,000	440	U
108-88-3	Toluene	530,000	3,400	1,100	420	
591-78-6	2-Hexanone	1,000	6,000	1,000	400	U
124-48-1	Dibromochloromethane	490	1,500	490	200	U
106-93-4	1,2-Dibromoethane	1,200	1,700	540	200	J
127-18-4	Tetrachloroethene	620	1,900	620	250	U
100-41-4	Ethylbenzene	27,000	2,900	960	420	
179601-23-1	m,p-Xylenes	71,000	5,700	1,900	790	
75-25-2	Bromoform	760	1,300	760	260	U
100-42-5	Styrene	1,800	3,000	1,800	500	U
95-47-6	o-Xylene	18,000	3,000	960	440	
108-67-8	1,3,5-Trimethylbenzene	1,100	2,600	850	380	J
95-63-6	1,2,4-Trimethylbenzene	1,900	2,600	850	370	J
120-82-1	1,2,4-Trichlorobenzene	1,100	3,300	1,100	430	U
91-20-3	Naphthalene	1,500	2,400	1,500	610	U
1330-20-7	Xylenes, Total	89,000	5,700	1,900	790	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-250-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-004

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.000050 Liter(s)

Test Notes:

Container ID: 1SS00839

Initial Pressure (psig): -2.67 Final Pressure (psig): 6.69

Container Dilution Factor: 1.78

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	4,700	11,000	6,600	2,700	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2,300	3,700	2,300	630	U
74-87-3	Chloromethane	5,500	9,000	5,500	1,500	U
75-01-4	Vinyl Chloride	2,400	7,400	2,400	790	U
106-99-0	1,3-Butadiene	5,200	8,400	5,200	1,400	U
75-00-3	Chloroethane	4,300	7,000	4,300	890	U
64-17-5	Ethanol	16,000	100,000	16,000	7,000	U
67-64-1	Acetone	40,000	78,000	40,000	18,000	U
75-69-4	Trichlorofluoromethane	2,000	3,200	2,000	510	U
67-63-0	2-Propanol (Isopropyl Alcohol)	9,100	14,000	9,100	3,200	U
75-09-2	Methylene Chloride	3,300	5,300	3,300	1,500	U
76-13-1	Trichlorotrifluoroethane	790	2,500	790	350	U
75-15-0	Carbon Disulfide	6,200	11,000	6,200	1,800	U
75-34-3	1,1-Dichloroethane	2,900	4,800	2,900	690	U
78-93-3	2-Butanone (MEK)	3,900	12,000	3,900	1,300	U
141-78-6	Ethyl Acetate	6,400	9,900	6,400	2,800	U
110-54-3	n-Hexane	990,000	5,300	3,200	1,100	
67-66-3	Chloroform	1,200	3,900	1,200	520	U
109-99-9	Tetrahydrofuran (THF)	2,100	12,000	2,100	810	U
107-06-2	1,2-Dichloroethane	1,500	4,600	1,500	520	U
71-43-2	Benzene	300,000	5,800	1,900	860	
56-23-5	Carbon Tetrachloride	960	2,900	960	420	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV04-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-004

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.000050 Liter(s)

Test Notes:

Container ID: 1SS00839

Initial Pressure (psig): -2.67 Final Pressure (psig): 6.69

Container Dilution Factor: 1.78

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	840,000	10,000	3,500	1,600	
75-27-4	Bromodichloromethane	900	2,800	900	410	U
79-01-6	Trichloroethene	1,100	3,400	1,100	480	U
123-91-1	1,4-Dioxane	1,700	5,100	1,700	620	U
142-82-5	n-Heptane	710,000	4,500	2,800	740	
108-10-1	4-Methyl-2-pentanone	1,500	8,700	1,500	630	U
108-88-3	Toluene	180,000	4,900	1,600	610	
591-78-6	2-Hexanone	1,500	8,700	1,500	570	U
124-48-1	Dibromochloromethane	710	2,200	710	290	U
106-93-4	1,2-Dibromoethane	790	2,400	790	290	U
127-18-4	Tetrachloroethene	890	2,700	890	360	U
100-41-4	Ethylbenzene	8,500	4,300	1,400	610	
179601-23-1	m,p-Xylenes	34,000	8,200	2,800	1,100	
75-25-2	Bromoform	1,100	1,800	1,100	380	U
100-42-5	Styrene	2,700	4,300	2,700	720	U
95-47-6	o-Xylene	11,000	4,300	1,400	630	
108-67-8	1,3,5-Trimethylbenzene	750	3,800	1,200	560	J
95-63-6	1,2,4-Trimethylbenzene	800	3,800	1,200	540	J
120-82-1	1,2,4-Trichlorobenzene	1,500	4,800	1,500	620	U
91-20-3	Naphthalene	2,100	3,500	2,100	880	U
1330-20-7	Xylenes, Total	45,000	8,200	2,800	1,100	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-300-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00192

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.0010 Liter(s)

Initial Pressure (psig): -3.36 Final Pressure (psig): 6.95

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	250	580	360	140	J
75-71-8	Dichlorodifluoromethane (CFC 12)	120	200	120	34	U
74-87-3	Chloromethane	300	480	300	80	U
75-01-4	Vinyl Chloride	130	400	130	43	U
106-99-0	1,3-Butadiene	280	450	280	76	U
75-00-3	Chloroethane	230	380	230	48	U
64-17-5	Ethanol	840	5,400	840	380	U
67-64-1	Acetone	2,200	4,200	2,200	970	U
75-69-4	Trichlorofluoromethane	110	170	110	28	U
67-63-0	2-Propanol (Isopropyl Alcohol)	490	780	490	170	U
75-09-2	Methylene Chloride	180	290	180	83	U
76-13-1	Trichlorotrifluoroethane	42	130	42	19	U
75-15-0	Carbon Disulfide	330	610	330	98	U
75-34-3	1,1-Dichloroethane	160	250	160	37	U
78-93-3	2-Butanone (MEK)	210	650	210	71	U
141-78-6	Ethyl Acetate	340	530	340	150	U
110-54-3	n-Hexane	36,000	280	170	60	U
67-66-3	Chloroform	67	210	67	28	U
109-99-9	Tetrahydrofuran (THF)	110	650	110	43	U
107-06-2	1,2-Dichloroethane	80	250	80	28	U
71-43-2	Benzene	22,000	310	100	46	U
56-23-5	Carbon Tetrachloride	52	150	52	22	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-300-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-005

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0010 Liter(s)

Test Notes:

Container ID: 1SC00192

Initial Pressure (psig): -3.36 Final Pressure (psig): 6.95

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	44,000	560	190	83	
75-27-4	Bromodichloromethane	48	150	48	22	U
79-01-6	Trichloroethene	60	180	60	26	U
123-91-1	1,4-Dioxane	90	280	90	33	U
142-82-5	n-Heptane	37,000	240	150	40	
108-10-1	4-Methyl-2-pentanone	79	470	79	34	U
108-88-3	Toluene	3,000	260	86	33	
591-78-6	2-Hexanone	79	470	79	31	U
124-48-1	Dibromochloromethane	38	120	38	16	U
106-93-4	1,2-Dibromoethane	42	130	42	15	U
127-18-4	Tetrachloroethene	48	150	48	19	U
100-41-4	Ethylbenzene	190	230	75	33	J
179601-23-1	m,p-Xylenes	1,600	440	150	62	
75-25-2	Bromoform	59	98	59	20	U
100-42-5	Styrene	140	230	140	39	U
95-47-6	o-Xylene	610	230	75	34	
108-67-8	1,3,5-Trimethylbenzene	210	210	66	30	
95-63-6	1,2,4-Trimethylbenzene	260	200	66	29	
120-82-1	1,2,4-Trichlorobenzene	82	260	82	33	U
91-20-3	Naphthalene	110	190	110	47	U
1330-20-7	Xylenes, Total	2,200	440	150	62	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV08-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00621

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20 &amp; 10/22/20

Volume(s) Analyzed: 0.00060 Liter(s)

0.00025 Liter(s)

Initial Pressure (psig): -2.35 Final Pressure (psig): 7.77

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	710	920	560	230	J
75-71-8	Dichlorodifluoromethane (CFC 12)	200	320	200	53	U
74-87-3	Chloromethane	470	760	470	130	U
75-01-4	Vinyl Chloride	200	630	200	68	U
106-99-0	1,3-Butadiene	440	710	440	120	U
75-00-3	Chloroethane	370	600	370	76	U
64-17-5	Ethanol	1,300	8,500	1,300	600	U
67-64-1	Acetone	3,400	6,600	3,400	1,500	U
75-69-4	Trichlorofluoromethane	170	280	170	44	U
67-63-0	2-Propanol (Isopropyl Alcohol)	780	1,200	780	270	U
75-09-2	Methylene Chloride	280	450	280	130	U
76-13-1	Trichlorotrifluoroethane	67	210	67	30	U
75-15-0	Carbon Disulfide	530	970	530	160	U
75-34-3	1,1-Dichloroethane	250	400	250	58	U
78-93-3	2-Butanone (MEK)	330	1,000	330	110	U
141-78-6	Ethyl Acetate	550	840	550	240	U
110-54-3	n-Hexane	55,000	450	280	95	
67-66-3	Chloroform	110	330	110	44	U
109-99-9	Tetrahydrofuran (THF)	170	1,000	170	69	U
107-06-2	1,2-Dichloroethane	130	390	130	44	U
71-43-2	Benzene	43,000	490	160	73	
56-23-5	Carbon Tetrachloride	82	250	82	36	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV08-050-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-006

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20 &amp; 10/22/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00060 Liter(s)

Test Notes:

0.00025 Liter(s)

Container ID: 1SC00621

Initial Pressure (psig): -2.35 Final Pressure (psig): 7.77

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	89,000	880	300	130	
75-27-4	Bromodichloromethane	77	240	77	35	U
79-01-6	Trichloroethene	96	290	96	41	U
123-91-1	1,4-Dioxane	140	440	140	53	U
142-82-5	n-Heptane	110,000	920	570	150	D
108-10-1	4-Methyl-2-pentanone	130	740	130	54	U
108-88-3	Toluene	36,000	420	140	52	
591-78-6	2-Hexanone	130	740	130	49	U
124-48-1	Dibromochloromethane	61	190	61	25	U
106-93-4	1,2-Dibromoethane	120	210	67	24	J
127-18-4	Tetrachloroethene	76	230	76	31	U
100-41-4	Ethylbenzene	1,300	360	120	52	
179601-23-1	m,p-Xylenes	18,000	700	240	98	
75-25-2	Bromoform	94	160	94	32	U
100-42-5	Styrene	230	370	230	61	U
95-47-6	o-Xylene	6,600	370	120	54	
108-67-8	1,3,5-Trimethylbenzene	600	330	100	48	
95-63-6	1,2,4-Trimethylbenzene	580	320	100	46	
120-82-1	1,2,4-Trichlorobenzene	130	410	130	53	U
91-20-3	Naphthalene	180	300	180	75	U
1330-20-7	Xylenes, Total	25,000	700	240	98	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV08-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00775

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.020 Liter(s)

Initial Pressure (psig): -3.51 Final Pressure (psig): 7.51

Container Dilution Factor: 1.98

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	28	30	18	7.5	J
75-71-8	Dichlorodifluoromethane (CFC 12)	6.4	10	6.4	1.7	U
74-87-3	Chloromethane	15	25	15	4.1	U
75-01-4	Vinyl Chloride	6.6	21	6.6	2.2	U
106-99-0	1,3-Butadiene	14	23	14	3.9	U
75-00-3	Chloroethane	12	20	12	2.5	U
64-17-5	Ethanol	44	280	44	19	U
67-64-1	Acetone	54	220	110	50	J
75-69-4	Trichlorofluoromethane	5.6	9.0	5.6	1.4	U
67-63-0	2-Propanol (Isopropyl Alcohol)	42	40	25	8.9	
75-09-2	Methylene Chloride	9.1	15	9.1	4.3	U
76-13-1	Trichlorotrifluoroethane	2.2	6.8	2.2	0.98	U
75-15-0	Carbon Disulfide	17	32	17	5.1	U
75-34-3	1,1-Dichloroethane	8.1	13	8.1	1.9	U
78-93-3	2-Butanone (MEK)	7.5	34	11	3.7	J
141-78-6	Ethyl Acetate	59	27	18	7.7	
110-54-3	n-Hexane	8.3	15	9.0	3.1	J
67-66-3	Chloroform	3.4	11	3.4	1.4	U
109-99-9	Tetrahydrofuran (THF)	5.7	34	5.7	2.2	U
107-06-2	1,2-Dichloroethane	4.2	13	4.2	1.4	U
71-43-2	Benzene	12	16	5.3	2.4	J
56-23-5	Carbon Tetrachloride	2.7	8.0	2.7	1.2	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV08-100-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-007

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.020 Liter(s)

Test Notes:

Container ID: 1SC00775

Initial Pressure (psig): -3.51 Final Pressure (psig): 7.51

Container Dilution Factor: 1.98

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	8.1	29	9.8	4.3	J
75-27-4	Bromodichloromethane	2.5	7.7	2.5	1.1	U
79-01-6	Trichloroethene	3.1	9.4	3.1	1.3	U
123-91-1	1,4-Dioxane	4.7	14	4.7	1.7	U
142-82-5	n-Heptane	36	13	7.7	2.1	
108-10-1	4-Methyl-2-pentanone	4.1	24	4.1	1.8	U
108-88-3	Toluene	31	14	4.5	1.7	
591-78-6	2-Hexanone	4.1	24	4.1	1.6	U
124-48-1	Dibromochloromethane	2.0	6.0	2.0	0.81	U
106-93-4	1,2-Dibromoethane	2.2	6.7	2.2	0.80	U
127-18-4	Tetrachloroethene	2.5	7.6	2.5	1.0	U
100-41-4	Ethylbenzene	2.3	12	3.9	1.7	J
179601-23-1	m,p-Xylenes	21	23	7.8	3.2	J
75-25-2	Bromoform	3.1	5.1	3.1	1.1	U
100-42-5	Styrene	7.4	12	7.4	2.0	U
95-47-6	o-Xylene	7.0	12	3.9	1.8	J
108-67-8	1,3,5-Trimethylbenzene	3.4	11	3.4	1.6	U
95-63-6	1,2,4-Trimethylbenzene	2.3	10	3.4	1.5	J
120-82-1	1,2,4-Trichlorobenzene	4.3	13	4.3	1.7	U
91-20-3	Naphthalene	5.9	9.8	5.9	2.5	U
1330-20-7	Xylenes, Total	28	23	7.8	3.2	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV08-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00871

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00025 Liter(s)

Initial Pressure (psig): -4.26 Final Pressure (psig): 6.58

Container Dilution Factor: 2.04

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1,500	2,500	1,500	620	J
75-71-8	Dichlorodifluoromethane (CFC 12)	530	860	530	140	U
74-87-3	Chloromethane	1,300	2,100	1,300	340	U
75-01-4	Vinyl Chloride	540	1,700	540	180	U
106-99-0	1,3-Butadiene	1,200	1,900	1,200	320	U
75-00-3	Chloroethane	990	1,600	990	200	U
64-17-5	Ethanol	3,600	23,000	3,600	1,600	U
67-64-1	Acetone	9,300	18,000	9,300	4,100	U
75-69-4	Trichlorofluoromethane	460	740	460	120	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,100	3,300	2,100	730	U
75-09-2	Methylene Chloride	750	1,200	750	350	U
76-13-1	Trichlorotrifluoroethane	180	560	180	81	U
75-15-0	Carbon Disulfide	1,400	2,600	1,400	420	U
75-34-3	1,1-Dichloroethane	670	1,100	670	160	U
78-93-3	2-Butanone (MEK)	890	2,800	890	300	U
141-78-6	Ethyl Acetate	1,500	2,300	1,500	630	U
110-54-3	n-Hexane	220,000	1,200	740	250	
67-66-3	Chloroform	280	890	280	120	U
109-99-9	Tetrahydrofuran (THF)	470	2,800	470	190	U
107-06-2	1,2-Dichloroethane	340	1,000	340	120	U
71-43-2	Benzene	120,000	1,300	430	200	
56-23-5	Carbon Tetrachloride	220	660	220	96	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV08-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-008

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00025 Liter(s)

Test Notes:

Container ID: 1SS00871

Initial Pressure (psig): -4.26 Final Pressure (psig): 6.58

Container Dilution Factor: 2.04

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	300,000	2,400	810	360	
75-27-4	Bromodichloromethane	210	630	210	94	U
79-01-6	Trichloroethene	260	770	260	110	U
123-91-1	1,4-Dioxane	390	1,200	390	140	U
142-82-5	n-Heptane	140,000	1,000	640	170	
108-10-1	4-Methyl-2-pentanone	340	2,000	340	150	U
108-88-3	Toluene	200,000	1,100	370	140	
591-78-6	2-Hexanone	340	2,000	340	130	U
124-48-1	Dibromochloromethane	160	500	160	67	U
106-93-4	1,2-Dibromoethane	890	550	180	66	
127-18-4	Tetrachloroethene	200	630	200	83	U
100-41-4	Ethylbenzene	12,000	980	320	140	
179601-23-1	m,p-Xylenes	40,000	1,900	640	260	
75-25-2	Bromoform	250	420	250	87	U
100-42-5	Styrene	610	1,000	610	160	U
95-47-6	o-Xylene	12,000	1,000	320	140	
108-67-8	1,3,5-Trimethylbenzene	2,100	880	280	130	
95-63-6	1,2,4-Trimethylbenzene	4,600	860	280	120	
120-82-1	1,2,4-Trichlorobenzene	350	1,100	350	140	U
91-20-3	Naphthalene	480	810	480	200	U
1330-20-7	Xylenes, Total	52,000	1,900	640	260	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01248

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00035 Liter(s)

Initial Pressure (psig): -3.50 Final Pressure (psig): 5.88

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	980	1,600	980	400	U
75-71-8	Dichlorodifluoromethane (CFC 12)	340	550	340	93	U
74-87-3	Chloromethane	810	1,300	810	220	U
75-01-4	Vinyl Chloride	350	1,100	350	120	U
106-99-0	1,3-Butadiene	760	1,200	760	210	U
75-00-3	Chloroethane	640	1,000	640	130	U
64-17-5	Ethanol	2,300	15,000	2,300	1,000	U
67-64-1	Acetone	6,000	12,000	6,000	2,700	U
75-69-4	Trichlorofluoromethane	300	480	300	76	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,300	2,100	1,300	470	U
75-09-2	Methylene Chloride	480	790	480	230	U
76-13-1	Trichlorotrifluoroethane	120	360	120	52	U
75-15-0	Carbon Disulfide	910	1,700	910	270	U
75-34-3	1,1-Dichloroethane	430	700	430	100	U
78-93-3	2-Butanone (MEK)	570	1,800	570	200	U
141-78-6	Ethyl Acetate	950	1,500	950	410	U
110-54-3	n-Hexane	480	780	480	160	U
67-66-3	Chloroform	180	570	180	76	U
109-99-9	Tetrahydrofuran (THF)	300	1,800	300	120	U
107-06-2	1,2-Dichloroethane	220	680	220	77	U
71-43-2	Benzene	280	860	280	130	U
56-23-5	Carbon Tetrachloride	140	430	140	62	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV09-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-009

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00035 Liter(s)

Test Notes:

Container ID: 1SC01248

Initial Pressure (psig): -3.50 Final Pressure (psig): 5.88

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	520	1,500	520	230	U
75-27-4	Bromodichloromethane	130	410	130	60	U
79-01-6	Trichloroethene	170	500	170	70	U
123-91-1	1,4-Dioxane	250	760	250	92	U
142-82-5	n-Heptane	410	670	410	110	U
108-10-1	4-Methyl-2-pentanone	220	1,300	220	94	U
108-88-3	Toluene	130	730	240	91	J
591-78-6	2-Hexanone	220	1,300	220	85	U
124-48-1	Dibromochloromethane	100	320	100	43	U
106-93-4	1,2-Dibromoethane	120	360	120	42	U
127-18-4	Tetrachloroethene	130	400	130	54	U
100-41-4	Ethylbenzene	210	630	210	91	U
179601-23-1	m,p-Xylenes	410	1,200	410	170	U
75-25-2	Bromoform	160	270	160	56	U
100-42-5	Styrene	400	640	400	110	U
95-47-6	o-Xylene	210	640	210	93	U
108-67-8	1,3,5-Trimethylbenzene	180	570	180	82	U
95-63-6	1,2,4-Trimethylbenzene	180	560	180	79	U
120-82-1	1,2,4-Trichlorobenzene	230	710	230	92	U
91-20-3	Naphthalene	310	520	310	130	U
1330-20-7	Xylenes, Total	410	1,200	410	170	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-100-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-010

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SS00011

Initial Pressure (psig): -3.40 Final Pressure (psig): 6.67

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1,900	3,800	2,300	950	J
75-71-8	Dichlorodifluoromethane (CFC 12)	820	1,300	820	220	U
74-87-3	Chloromethane	2,000	3,200	2,000	520	U
75-01-4	Vinyl Chloride	840	2,600	840	280	U
106-99-0	1,3-Butadiene	1,800	3,000	1,800	500	U
75-00-3	Chloroethane	1,500	2,500	1,500	320	U
64-17-5	Ethanol	5,600	35,000	5,600	2,500	U
67-64-1	Acetone	14,000	28,000	14,000	6,400	U
75-69-4	Trichlorofluoromethane	720	1,100	720	180	U
67-63-0	2-Propanol (Isopropyl Alcohol)	3,200	5,100	3,200	1,100	U
75-09-2	Methylene Chloride	1,200	1,900	1,200	540	U
76-13-1	Trichlorotrifluoroethane	280	870	280	130	U
75-15-0	Carbon Disulfide	2,200	4,000	2,200	650	U
75-34-3	1,1-Dichloroethane	1,000	1,700	1,000	240	U
78-93-3	2-Butanone (MEK)	1,400	4,300	1,400	470	U
141-78-6	Ethyl Acetate	2,300	3,500	2,300	980	U
110-54-3	n-Hexane	360,000	1,900	1,100	390	U
67-66-3	Chloroform	440	1,400	440	180	U
109-99-9	Tetrahydrofuran (THF)	730	4,300	730	290	U
107-06-2	1,2-Dichloroethane	530	1,600	530	180	U
71-43-2	Benzene	180,000	2,100	670	300	U
56-23-5	Carbon Tetrachloride	340	1,000	340	150	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV09-100-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-010

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SS00011

Initial Pressure (psig): -3.40 Final Pressure (psig): 6.67

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	340,000	3,700	1,200	550	
75-27-4	Bromodichloromethane	320	980	320	140	U
79-01-6	Trichloroethene	400	1,200	400	170	U
123-91-1	1,4-Dioxane	590	1,800	590	220	U
142-82-5	n-Heptane	310,000	1,600	980	260	
108-10-1	4-Methyl-2-pentanone	520	3,100	520	220	U
108-88-3	Toluene	340,000	1,700	570	220	
591-78-6	2-Hexanone	520	3,100	520	200	U
124-48-1	Dibromochloromethane	250	770	250	100	U
106-93-4	1,2-Dibromoethane	1,600	850	280	100	
127-18-4	Tetrachloroethene	320	970	320	130	U
100-41-4	Ethylbenzene	27,000	1,500	490	220	
179601-23-1	m,p-Xylenes	78,000	2,900	990	410	
75-25-2	Bromoform	390	650	390	130	U
100-42-5	Styrene	950	1,500	950	250	U
95-47-6	o-Xylene	24,000	1,500	490	220	
108-67-8	1,3,5-Trimethylbenzene	2,400	1,400	440	200	
95-63-6	1,2,4-Trimethylbenzene	4,200	1,300	440	190	
120-82-1	1,2,4-Trichlorobenzene	540	1,700	540	220	U
91-20-3	Naphthalene	750	1,300	750	310	U
1330-20-7	Xylenes, Total	100,000	2,900	990	410	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00233

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00075 Liter(s)

0.00015 Liter(s)

Initial Pressure (psig): -2.77 Final Pressure (psig): 7.14

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	750	740	450	180	
75-71-8	Dichlorodifluoromethane (CFC 12)	160	260	160	43	U
74-87-3	Chloromethane	380	610	380	100	U
75-01-4	Vinyl Chloride	160	510	160	54	U
106-99-0	1,3-Butadiene	350	570	350	97	U
75-00-3	Chloroethane	300	480	300	61	U
64-17-5	Ethanol	1,100	6,900	1,100	480	U
67-64-1	Acetone	2,800	5,300	2,800	1,200	U
75-69-4	Trichlorofluoromethane	140	220	140	35	U
67-63-0	2-Propanol (Isopropyl Alcohol)	630	990	630	220	U
75-09-2	Methylene Chloride	220	370	220	110	U
76-13-1	Trichlorotrifluoroethane	54	170	54	24	U
75-15-0	Carbon Disulfide	420	780	420	130	U
75-34-3	1,1-Dichloroethane	200	330	200	47	U
78-93-3	2-Butanone (MEK)	260	830	260	91	U
141-78-6	Ethyl Acetate	440	680	440	190	U
110-54-3	n-Hexane	27,000	360	220	76	
67-66-3	Chloroform	85	260	85	35	U
109-99-9	Tetrahydrofuran (THF)	140	830	140	55	U
107-06-2	1,2-Dichloroethane	100	310	100	36	U
71-43-2	Benzene	15,000	400	130	59	
56-23-5	Carbon Tetrachloride	66	200	66	29	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00233

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00075 Liter(s)

0.00015 Liter(s)

Initial Pressure (psig): -2.77 Final Pressure (psig): 7.14

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	31,000	710	240	110	
75-27-4	Bromodichloromethane	62	190	62	28	U
79-01-6	Trichloroethene	77	230	77	33	U
123-91-1	1,4-Dioxane	120	350	120	43	U
142-82-5	n-Heptane	71,000	1,500	950	250	D
108-10-1	4-Methyl-2-pentanone	100	600	100	43	U
108-88-3	Toluene	110,000	1,700	550	210	D
591-78-6	2-Hexanone	100	600	100	39	U
124-48-1	Dibromochloromethane	49	150	49	20	U
106-93-4	1,2-Dibromoethane	750	170	54	20	
127-18-4	Tetrachloroethene	61	190	61	25	U
100-41-4	Ethylbenzene	7,900	290	96	42	
179601-23-1	m,p-Xylenes	37,000	560	190	79	
75-25-2	Bromoform	76	130	76	26	U
100-42-5	Styrene	180	300	180	49	U
95-47-6	o-Xylene	10,000	300	96	43	
108-67-8	1,3,5-Trimethylbenzene	680	260	84	38	
95-63-6	1,2,4-Trimethylbenzene	820	260	84	37	
120-82-1	1,2,4-Trichlorobenzene	110	330	110	43	U
91-20-3	Naphthalene	140	240	140	61	U
1330-20-7	Xylenes, Total	48,000	560	190	79	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-266-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00491

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00010 Liter(s)

0.000050 Liter(s)

Initial Pressure (psig): -3.32 Final Pressure (psig): 7.61

Container Dilution Factor: 1.96

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3,300	5,900	3,600	1,500	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1,300	2,100	1,300	340	U
74-87-3	Chloromethane	3,000	4,900	3,000	820	U
75-01-4	Vinyl Chloride	1,300	4,100	1,300	440	U
106-99-0	1,3-Butadiene	2,800	4,600	2,800	780	U
75-00-3	Chloroethane	2,400	3,900	2,400	490	U
64-17-5	Ethanol	8,600	55,000	8,600	3,900	U
67-64-1	Acetone	22,000	43,000	22,000	9,900	U
75-69-4	Trichlorofluoromethane	1,100	1,800	1,100	280	U
67-63-0	2-Propanol (Isopropyl Alcohol)	5,000	8,000	5,000	1,800	U
75-09-2	Methylene Chloride	1,800	2,900	1,800	850	U
76-13-1	Trichlorotrifluoroethane	430	1,400	430	190	U
75-15-0	Carbon Disulfide	3,400	6,300	3,400	1,000	U
75-34-3	1,1-Dichloroethane	1,600	2,600	1,600	380	U
78-93-3	2-Butanone (MEK)	2,100	6,600	2,100	730	U
141-78-6	Ethyl Acetate	3,500	5,400	3,500	1,500	U
110-54-3	n-Hexane	570,000	5,800	3,600	1,200	D
67-66-3	Chloroform	680	2,100	680	290	U
109-99-9	Tetrahydrofuran (THF)	1,100	6,600	1,100	450	U
107-06-2	1,2-Dichloroethane	820	2,500	820	290	U
71-43-2	Benzene	280,000	3,200	1,000	470	U
56-23-5	Carbon Tetrachloride	530	1,600	530	230	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-266-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-012

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

0.000050 Liter(s)

Container ID: 1SC00491

Initial Pressure (psig): -3.32 Final Pressure (psig): 7.61

Container Dilution Factor: 1.96

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>590,000</b>	5,700	1,900	850	
75-27-4	Bromodichloromethane	500	1,500	500	230	U
79-01-6	Trichloroethene	620	1,900	620	260	U
123-91-1	1,4-Dioxane	920	2,800	920	340	U
142-82-5	n-Heptane	<b>410,000</b>	5,000	3,100	810	D
108-10-1	4-Methyl-2-pentanone	810	4,800	810	350	U
108-88-3	Toluene	<b>520,000</b>	2,700	880	340	
591-78-6	2-Hexanone	810	4,800	810	320	U
124-48-1	Dibromochloromethane	390	1,200	390	160	U
106-93-4	1,2-Dibromoethane	<b>1,400</b>	1,300	430	160	
127-18-4	Tetrachloroethene	490	1,500	490	200	U
100-41-4	Ethylbenzene	<b>35,000</b>	2,300	770	340	
179601-23-1	m,p-Xylenes	<b>89,000</b>	4,500	1,500	630	
75-25-2	Bromoform	610	1,000	610	210	U
100-42-5	Styrene	1,500	2,400	1,500	400	U
95-47-6	o-Xylene	<b>25,000</b>	2,400	770	350	
108-67-8	1,3,5-Trimethylbenzene	<b>2,600</b>	2,100	680	310	
95-63-6	1,2,4-Trimethylbenzene	<b>5,700</b>	2,100	680	300	
120-82-1	1,2,4-Trichlorobenzene	850	2,600	850	340	U
91-20-3	Naphthalene	1,200	1,900	1,200	490	U
1330-20-7	Xylenes, Total	<b>110,000</b>	4,500	1,500	630	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01294

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.88 Final Pressure (psig): 9.57

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.95	1.5	0.95	0.39	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.7	0.54	0.33	0.090	
74-87-3	Chloromethane	0.79	1.3	0.79	0.21	U
75-01-4	Vinyl Chloride	0.34	1.1	0.34	0.11	U
106-99-0	1,3-Butadiene	0.74	1.2	0.74	0.20	U
75-00-3	Chloroethane	0.62	1.0	0.62	0.13	U
64-17-5	Ethanol	2.3	14	2.3	1.0	U
67-64-1	Acetone	13	11	5.8	2.6	
75-69-4	Trichlorofluoromethane	0.31	0.47	0.29	0.074	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.46	U
75-09-2	Methylene Chloride	0.47	0.77	0.47	0.22	U
76-13-1	Trichlorotrifluoroethane	2.8	0.35	0.11	0.051	
75-15-0	Carbon Disulfide	3.6	1.6	0.89	0.26	
75-34-3	1,1-Dichloroethane	0.42	0.68	0.42	0.099	U
78-93-3	2-Butanone (MEK)	0.63	1.7	0.56	0.19	J
141-78-6	Ethyl Acetate	0.92	1.4	0.92	0.40	U
110-54-3	n-Hexane	0.47	0.76	0.47	0.16	U
67-66-3	Chloroform	0.18	0.56	0.18	0.075	U
109-99-9	Tetrahydrofuran (THF)	0.30	1.7	0.30	0.12	U
107-06-2	1,2-Dichloroethane	0.22	0.66	0.22	0.075	U
71-43-2	Benzene	0.14	0.83	0.27	0.12	J
56-23-5	Carbon Tetrachloride	3.0	0.42	0.14	0.060	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01294

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.88 Final Pressure (psig): 9.57

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.51	1.5	0.51	0.22	U
75-27-4	Bromodichloromethane	0.13	0.40	0.13	0.059	U
79-01-6	Trichloroethene	0.16	0.49	0.16	0.069	U
123-91-1	1,4-Dioxane	0.24	0.74	0.24	0.090	U
142-82-5	n-Heptane	<b>0.38</b>	0.65	0.40	0.11	J
108-10-1	4-Methyl-2-pentanone	0.21	1.3	0.21	0.091	U
108-88-3	Toluene	<b>0.46</b>	0.71	0.23	0.088	J
591-78-6	2-Hexanone	0.21	1.3	0.21	0.083	U
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	U
106-93-4	1,2-Dibromoethane	0.11	0.35	0.11	0.041	U
127-18-4	Tetrachloroethene	<b>0.41</b>	0.39	0.13	0.052	
100-41-4	Ethylbenzene	<b>0.17</b>	0.61	0.20	0.089	J
179601-23-1	m,p-Xylenes	<b>1.1</b>	1.2	0.40	0.17	J
75-25-2	Bromoform	0.16	0.26	0.16	0.055	U
100-42-5	Styrene	0.39	0.63	0.39	0.10	U
95-47-6	o-Xylene	<b>0.42</b>	0.63	0.20	0.091	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.26</b>	0.55	0.18	0.080	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.92</b>	0.54	0.18	0.077	
120-82-1	1,2,4-Trichlorobenzene	0.22	0.69	0.22	0.090	U
91-20-3	Naphthalene	<b>0.18</b>	0.51	0.30	0.13	J
1330-20-7	Xylenes, Total	<b>1.5</b>	1.2	0.40	0.17	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00012

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.45 Final Pressure (psig): 6.43

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.61</b>	1.4	0.87	0.36	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>4.2</b>	0.49	0.30	0.083	
74-87-3	Chloromethane	<b>0.33</b>	1.2	0.73	0.20	<b>J</b>
75-01-4	Vinyl Chloride	0.31	0.97	0.31	0.10	<b>U</b>
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	<b>U</b>
75-00-3	Chloroethane	0.57	0.93	0.57	0.12	<b>U</b>
64-17-5	Ethanol	<b>2.2</b>	13	2.1	0.92	<b>J</b>
67-64-1	Acetone	<b>16</b>	10	5.3	2.4	
75-69-4	Trichlorofluoromethane	<b>0.54</b>	0.43	0.27	0.068	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.42	<b>U</b>
75-09-2	Methylene Chloride	0.43	0.70	0.43	0.20	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>6.9</b>	0.33	0.10	0.047	
75-15-0	Carbon Disulfide	<b>12</b>	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	0.38	0.63	0.38	0.091	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.9</b>	1.6	0.51	0.18	
141-78-6	Ethyl Acetate	0.85	1.3	0.85	0.37	<b>U</b>
110-54-3	n-Hexane	<b>0.35</b>	0.69	0.43	0.15	<b>J</b>
67-66-3	Chloroform	0.16	0.51	0.16	0.068	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>0.67</b>	1.6	0.27	0.11	<b>J</b>
107-06-2	1,2-Dichloroethane	0.20	0.60	0.20	0.069	<b>U</b>
71-43-2	Benzene	<b>0.33</b>	0.77	0.25	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>8.1</b>	0.38	0.13	0.055	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-014

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00012

Initial Pressure (psig): -3.45 Final Pressure (psig): 6.43

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.49</b>	1.4	0.46	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.054	<b>U</b>
79-01-6	Trichloroethene	0.15	0.45	0.15	0.063	<b>U</b>
123-91-1	1,4-Dioxane	0.22	0.68	0.22	0.082	<b>U</b>
142-82-5	n-Heptane	<b>0.89</b>	0.60	0.37	0.098	
108-10-1	4-Methyl-2-pentanone	0.20	1.1	0.20	0.084	<b>U</b>
108-88-3	Toluene	<b>0.75</b>	0.65	0.21	0.081	
591-78-6	2-Hexanone	0.20	1.1	0.20	0.076	<b>U</b>
124-48-1	Dibromochloromethane	0.094	0.29	0.094	0.039	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.90</b>	0.36	0.12	0.048	
100-41-4	Ethylbenzene	<b>0.15</b>	0.56	0.18	0.081	<b>J</b>
179601-23-1	m,p-Xylenes	<b>1.6</b>	1.1	0.37	0.15	
75-25-2	Bromoform	0.15	0.24	0.15	0.050	<b>U</b>
100-42-5	Styrene	0.35	0.57	0.35	0.095	<b>U</b>
95-47-6	o-Xylene	<b>0.57</b>	0.57	0.18	0.083	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.28</b>	0.51	0.16	0.074	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.90</b>	0.50	0.16	0.071	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.082	<b>U</b>
91-20-3	Naphthalene	<b>0.23</b>	0.47	0.28	0.12	<b>J</b>
1330-20-7	Xylenes, Total	<b>2.2</b>	1.1	0.37	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01034

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.90 Final Pressure (psig): 6.93

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.73	1.4	0.85	0.35	J
75-71-8	Dichlorodifluoromethane (CFC 12)	4.2	0.48	0.30	0.081	
74-87-3	Chloromethane	0.35	1.2	0.71	0.19	J
75-01-4	Vinyl Chloride	0.30	0.95	0.30	0.10	U
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	0.56	0.90	0.56	0.11	U
64-17-5	Ethanol	7.9	13	2.0	0.90	J
67-64-1	Acetone	22	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	0.56	0.42	0.26	0.066	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.9	1.2	0.41	J
75-09-2	Methylene Chloride	0.42	0.69	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	6.9	0.32	0.10	0.045	
75-15-0	Carbon Disulfide	2.7	1.5	0.79	0.24	
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	8.9	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	0.81	1.3	0.83	0.36	J
110-54-3	n-Hexane	0.71	0.68	0.42	0.14	
67-66-3	Chloroform	0.16	0.50	0.16	0.067	U
109-99-9	Tetrahydrofuran (THF)	1.1	1.6	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	0.47	0.74	0.24	0.11	J
56-23-5	Carbon Tetrachloride	8.0	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-015

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01034

Initial Pressure (psig): -2.90 Final Pressure (psig): 6.93

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.88</b>	1.3	0.45	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	<b>U</b>
79-01-6	Trichloroethene	0.14	0.43	0.14	0.061	<b>U</b>
123-91-1	1,4-Dioxane	0.22	0.66	0.22	0.080	<b>U</b>
142-82-5	n-Heptane	<b>1.9</b>	0.58	0.36	0.095	
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.082	<b>U</b>
108-88-3	Toluene	<b>1.5</b>	0.63	0.21	0.079	
591-78-6	2-Hexanone	0.19	1.1	0.19	0.074	<b>U</b>
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.038	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.91</b>	0.35	0.11	0.047	
100-41-4	Ethylbenzene	<b>0.32</b>	0.55	0.18	0.079	<b>J</b>
179601-23-1	m,p-Xylenes	<b>3.6</b>	1.1	0.36	0.15	
75-25-2	Bromoform	0.14	0.23	0.14	0.049	<b>U</b>
100-42-5	Styrene	0.34	0.56	0.34	0.092	<b>U</b>
95-47-6	o-Xylene	<b>1.3</b>	0.56	0.18	0.081	
108-67-8	1,3,5-Trimethylbenzene	<b>0.58</b>	0.49	0.16	0.072	
95-63-6	1,2,4-Trimethylbenzene	<b>2.0</b>	0.48	0.16	0.069	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.080	<b>U</b>
91-20-3	Naphthalene	<b>0.38</b>	0.45	0.27	0.11	<b>J</b>
1330-20-7	Xylenes, Total	<b>4.9</b>	1.1	0.36	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00084

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00050 Liter(s)

Initial Pressure (psig): -3.86 Final Pressure (psig): 5.89

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	710	1,100	710	290	U
75-71-8	Dichlorodifluoromethane (CFC 12)	250	400	250	67	U
74-87-3	Chloromethane	590	960	590	160	U
75-01-4	Vinyl Chloride	250	790	250	85	U
106-99-0	1,3-Butadiene	550	890	550	150	U
75-00-3	Chloroethane	460	750	460	95	U
64-17-5	Ethanol	1,700	11,000	1,700	750	U
67-64-1	Acetone	4,300	8,300	4,300	1,900	U
75-69-4	Trichlorofluoromethane	220	350	220	55	U
67-63-0	2-Propanol (Isopropyl Alcohol)	970	1,500	970	340	U
75-09-2	Methylene Chloride	350	570	350	160	U
76-13-1	Trichlorotrifluoroethane	84	260	84	38	U
75-15-0	Carbon Disulfide	660	1,200	660	200	U
75-34-3	1,1-Dichloroethane	310	510	310	73	U
78-93-3	2-Butanone (MEK)	410	1,300	410	140	U
141-78-6	Ethyl Acetate	690	1,100	690	300	U
110-54-3	n-Hexane	<b>1,400</b>	560	350	120	
67-66-3	Chloroform	130	410	130	55	U
109-99-9	Tetrahydrofuran (THF)	220	1,300	220	86	U
107-06-2	1,2-Dichloroethane	160	490	160	55	U
71-43-2	Benzene	<b>770</b>	620	200	92	
56-23-5	Carbon Tetrachloride	100	310	100	45	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-016

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00050 Liter(s)

Test Notes:

Container ID: 1SC00084

Initial Pressure (psig): -3.86 Final Pressure (psig): 5.89

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	940	1,100	380	170	J
75-27-4	Bromodichloromethane	96	300	96	44	U
79-01-6	Trichloroethene	120	360	120	51	U
123-91-1	1,4-Dioxane	180	550	180	66	U
142-82-5	n-Heptane	420	480	300	79	J
108-10-1	4-Methyl-2-pentanone	160	930	160	68	U
108-88-3	Toluene	330	520	170	66	J
591-78-6	2-Hexanone	160	930	160	61	U
124-48-1	Dibromochloromethane	76	230	76	31	U
106-93-4	1,2-Dibromoethane	84	260	84	31	U
127-18-4	Tetrachloroethene	95	290	95	39	U
100-41-4	Ethylbenzene	150	460	150	66	U
179601-23-1	m,p-Xylenes	300	880	300	120	U
75-25-2	Bromoform	120	190	120	40	U
100-42-5	Styrene	290	460	290	77	U
95-47-6	o-Xylene	150	460	150	67	U
108-67-8	1,3,5-Trimethylbenzene	130	410	130	60	U
95-63-6	1,2,4-Trimethylbenzene	130	400	130	57	U
120-82-1	1,2,4-Trichlorobenzene	160	510	160	67	U
91-20-3	Naphthalene	220	380	220	94	U
1330-20-7	Xylenes, Total	300	880	300	120	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00186

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.0035 Liter(s)

0.0010 Liter(s)

Initial Pressure (psig): -4.45 Final Pressure (psig): 6.48

Container Dilution Factor: 2.07

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	260	180	110	45	
75-71-8	Dichlorodifluoromethane (CFC 12)	38	62	38	10	U
74-87-3	Chloromethane	92	150	92	25	U
75-01-4	Vinyl Chloride	39	120	39	13	U
106-99-0	1,3-Butadiene	86	140	86	24	U
75-00-3	Chloroethane	72	120	72	15	U
64-17-5	Ethanol	260	1,700	260	120	U
67-64-1	Acetone	670	1,300	670	300	U
75-69-4	Trichlorofluoromethane	34	54	34	8.5	U
67-63-0	2-Propanol (Isopropyl Alcohol)	150	240	150	53	U
75-09-2	Methylene Chloride	54	89	54	26	U
76-13-1	Trichlorotrifluoroethane	36	41	13	5.9	J
75-15-0	Carbon Disulfide	100	190	100	30	U
75-34-3	1,1-Dichloroethane	48	79	48	11	U
78-93-3	2-Butanone (MEK)	64	200	64	22	U
141-78-6	Ethyl Acetate	110	160	110	46	U
110-54-3	n-Hexane	26,000	310	190	65	D
67-66-3	Chloroform	21	64	21	8.6	U
109-99-9	Tetrahydrofuran (THF)	34	200	34	13	U
107-06-2	1,2-Dichloroethane	25	76	25	8.6	U
71-43-2	Benzene	23,000	340	110	50	D
56-23-5	Carbon Tetrachloride	47	48	16	7.0	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV111-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00186

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.0035 Liter(s)

0.0010 Liter(s)

Initial Pressure (psig): -4.45 Final Pressure (psig): 6.48

Container Dilution Factor: 2.07

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	30,000	170	58	26	
75-27-4	Bromodichloromethane	15	46	15	6.8	U
79-01-6	Trichloroethene	19	56	19	7.9	U
123-91-1	1,4-Dioxane	28	85	28	10	U
142-82-5	n-Heptane	13,000	75	46	12	
108-10-1	4-Methyl-2-pentanone	25	140	25	11	U
108-88-3	Toluene	1,300	82	27	10	
591-78-6	2-Hexanone	25	140	25	9.5	U
124-48-1	Dibromochloromethane	12	36	12	4.9	U
106-93-4	1,2-Dibromoethane	13	40	13	4.8	U
127-18-4	Tetrachloroethene	15	45	15	6.0	U
100-41-4	Ethylbenzene	54	71	23	10	J
179601-23-1	m,p-Xylenes	610	140	46	19	
75-25-2	Bromoform	18	30	18	6.3	U
100-42-5	Styrene	44	72	44	12	U
95-47-6	o-Xylene	1,300	72	23	10	
108-67-8	1,3,5-Trimethylbenzene	390	64	20	9.3	
95-63-6	1,2,4-Trimethylbenzene	71	63	20	8.9	
120-82-1	1,2,4-Trichlorobenzene	26	80	26	10	U
91-20-3	Naphthalene	35	59	35	15	U
1330-20-7	Xylenes, Total	1,900	140	46	19	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00069

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00015 Liter(s)

Initial Pressure (psig): -2.90 Final Pressure (psig): 8.11

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>3,500</b>	3,900	2,400	970	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	830	1,400	830	230	<b>U</b>
74-87-3	Chloromethane	2,000	3,200	2,000	540	<b>U</b>
75-01-4	Vinyl Chloride	860	2,700	860	290	<b>U</b>
106-99-0	1,3-Butadiene	1,900	3,000	1,900	510	<b>U</b>
75-00-3	Chloroethane	1,600	2,500	1,600	320	<b>U</b>
64-17-5	Ethanol	5,700	36,000	5,700	2,500	<b>U</b>
67-64-1	Acetone	15,000	28,000	15,000	6,500	<b>U</b>
75-69-4	Trichlorofluoromethane	730	1,200	730	190	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	3,300	5,200	3,300	1,200	<b>U</b>
75-09-2	Methylene Chloride	1,200	1,900	1,200	560	<b>U</b>
76-13-1	Trichlorotrifluoroethane	290	890	290	130	<b>U</b>
75-15-0	Carbon Disulfide	2,200	4,100	2,200	660	<b>U</b>
75-34-3	1,1-Dichloroethane	1,000	1,700	1,000	250	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2,100</b>	4,400	1,400	480	<b>J</b>
141-78-6	Ethyl Acetate	2,300	3,600	2,300	1,000	<b>U</b>
110-54-3	n-Hexane	<b>380,000</b>	1,900	1,200	400	
67-66-3	Chloroform	450	1,400	450	190	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	740	4,400	740	290	<b>U</b>
107-06-2	1,2-Dichloroethane	540	1,700	540	190	<b>U</b>
71-43-2	Benzene	<b>64,000</b>	2,100	680	310	
56-23-5	Carbon Tetrachloride	350	1,000	350	150	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV111-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-018

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SC00069

Initial Pressure (psig): -2.90 Final Pressure (psig): 8.11

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	350,000	3,700	1,300	560	
75-27-4	Bromodichloromethane	330	1,000	330	150	U
79-01-6	Trichloroethene	480	1,200	410	170	J
123-91-1	1,4-Dioxane	610	1,900	610	230	U
142-82-5	n-Heptane	160,000	1,600	1,000	270	
108-10-1	4-Methyl-2-pentanone	530	3,100	530	230	U
108-88-3	Toluene	25,000	1,800	580	220	
591-78-6	2-Hexanone	530	3,100	530	210	U
124-48-1	Dibromochloromethane	260	790	260	110	U
106-93-4	1,2-Dibromoethane	280	870	280	100	U
127-18-4	Tetrachloroethene	320	990	320	130	U
100-41-4	Ethylbenzene	1,700	1,500	500	220	
179601-23-1	m,p-Xylenes	4,800	3,000	1,000	410	
75-25-2	Bromoform	400	660	400	140	U
100-42-5	Styrene	970	1,600	970	260	U
95-47-6	o-Xylene	3,900	1,600	500	230	
108-67-8	1,3,5-Trimethylbenzene	510	1,400	450	200	J
95-63-6	1,2,4-Trimethylbenzene	450	1,400	450	190	U
120-82-1	1,2,4-Trichlorobenzene	550	1,700	550	230	U
91-20-3	Naphthalene	760	1,300	760	320	U
1330-20-7	Xylenes, Total	8,700	3,000	1,000	410	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00931

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -3.52 Final Pressure (psig): 7.36

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	36	20	12	5.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	51	6.9	4.3	1.2	
74-87-3	Chloromethane	25	17	10	2.7	
75-01-4	Vinyl Chloride	3.3	14	4.4	1.5	J
106-99-0	1,3-Butadiene	9.5	15	9.5	2.6	U
75-00-3	Chloroethane	8.0	13	8.0	1.6	U
64-17-5	Ethanol	29	180	29	13	U
67-64-1	Acetone	75	140	75	33	U
75-69-4	Trichlorofluoromethane	4.2	6.0	3.7	0.95	J
67-63-0	2-Propanol (Isopropyl Alcohol)	17	27	17	5.9	U
75-09-2	Methylene Chloride	6.1	9.8	6.1	2.8	U
76-13-1	Trichlorotrifluoroethane	25	4.5	1.5	0.65	
75-15-0	Carbon Disulfide	56	21	11	3.4	
75-34-3	1,1-Dichloroethane	5.4	8.8	5.4	1.3	U
78-93-3	2-Butanone (MEK)	7.1	22	7.1	2.5	U
141-78-6	Ethyl Acetate	12	18	12	5.1	U
110-54-3	n-Hexane	530	9.7	6.0	2.1	
67-66-3	Chloroform	2.3	7.1	2.3	0.96	U
109-99-9	Tetrahydrofuran (THF)	9.3	22	3.8	1.5	J
107-06-2	1,2-Dichloroethane	2.8	8.4	2.8	0.96	U
71-43-2	Benzene	360	11	3.5	1.6	
56-23-5	Carbon Tetrachloride	1.8	5.3	1.8	0.77	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00931

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -3.52 Final Pressure (psig): 7.36

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>670</b>	19	6.5	2.9	
75-27-4	Bromodichloromethane	1.7	5.1	1.7	0.76	U
79-01-6	Trichloroethene	2.1	6.2	2.1	0.88	U
123-91-1	1,4-Dioxane	3.1	9.5	3.1	1.1	U
142-82-5	n-Heptane	<b>490</b>	8.3	5.1	1.4	
108-10-1	4-Methyl-2-pentanone	2.7	16	2.7	1.2	U
108-88-3	Toluene	<b>680</b>	9.1	3.0	1.1	
591-78-6	2-Hexanone	2.7	16	2.7	1.1	U
124-48-1	Dibromochloromethane	1.3	4.0	1.3	0.54	U
106-93-4	1,2-Dibromoethane	1.5	4.4	1.5	0.53	U
127-18-4	Tetrachloroethene	1.6	5.0	1.6	0.67	U
100-41-4	Ethylbenzene	<b>21</b>	7.9	2.6	1.1	
179601-23-1	m,p-Xylenes	<b>58</b>	15	5.1	2.1	
75-25-2	Bromoform	2.0	3.4	2.0	0.70	U
100-42-5	Styrene	4.9	8.0	4.9	1.3	U
95-47-6	o-Xylene	<b>17</b>	8.0	2.6	1.2	
108-67-8	1,3,5-Trimethylbenzene	<b>1.6</b>	7.1	2.3	1.0	J
95-63-6	1,2,4-Trimethylbenzene	<b>2.0</b>	6.9	2.3	0.99	J
120-82-1	1,2,4-Trichlorobenzene	2.8	8.8	2.8	1.2	U
91-20-3	Naphthalene	3.9	6.5	3.9	1.6	U
1330-20-7	Xylenes, Total	<b>74</b>	15	5.1	2.1	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201021-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201021-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 10/5 - 10/6/20

Analyst: Wida Ang

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 10/20 - 10/21/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201020-MB	97	99	108	70-130	
Method Blank	P201020-MB	102	98	108	70-130	
Method Blank	P201021-MB	102	99	108	70-130	
Lab Control Sample	P201020-LCS	97	97	107	70-130	
Lab Control Sample	P201020-LCS	103	94	105	70-130	
Lab Control Sample	P201021-LCS	101	96	106	70-130	
Duplicate Lab Control Sample	P201020-DLCS	97	97	107	70-130	
Duplicate Lab Control Sample	P201020-DLCS	103	96	106	70-130	
Duplicate Lab Control Sample	P201021-DLCS	101	96	107	70-130	
SV04-050-604	P2005743-001	97	97	113	70-130	
SV04-050-204	P2005743-002	98	91	110	70-130	
SV04-100-204	P2005743-003	97	98	111	70-130	
SV04-250-204	P2005743-004	97	99	113	70-130	
SV04-300-204	P2005743-005	101	97	99	70-130	
SV08-050-204	P2005743-006	97	71	89	70-130	
SV08-100-204	P2005743-007	103	84	109	70-130	
SV08-250-204	P2005743-008	103	94	105	70-130	
SV09-050-204	P2005743-009	103	98	106	70-130	
SV09-100-204	P2005743-010	103	93	102	70-130	
SV09-250-204	P2005743-011	103	82	93	70-130	
SV09-266-204	P2005743-012	102	98	108	70-130	
SV111-025-204	P2005743-013	103	98	110	70-130	
SV111-050-204	P2005743-014	103	98	110	70-130	
SV111-050-604	P2005743-015	103	97	109	70-130	
SV111-150-204	P2005743-016	104	99	107	70-130	
SV111-250-204	P2005743-017	103	71	98	70-130	
SV111-350-204	P2005743-018	102	97	107	70-130	
SV111-450-204	P2005743-019	102	97	107	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	122	103	101	84	83	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	37.1	36.3	87	85	59-128	2	25	
74-87-3	Chloromethane	99.8	99.7	96.8	100	97	59-132	3	25	
75-01-4	Vinyl Chloride	81.4	78.3	76.0	96	93	64-127	3	25	
106-99-0	1,3-Butadiene	95.0	92.4	91.8	97	97	66-134	0	25	
75-00-3	Chloroethane	77.3	72.1	70.3	93	91	63-127	2	25	
64-17-5	Ethanol	530	430	426	81	80	59-125	1	25	
67-64-1	Acetone	435	361	354	83	81	58-128	2	25	
75-69-4	Trichlorofluoromethane	36.3	30.9	30.3	85	83	62-126	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	163	160	98	96	52-125	2	25	
75-09-2	Methylene Chloride	59.9	54.0	53.2	90	89	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	27.9	25.3	25.2	91	90	66-126	1	25	
75-15-0	Carbon Disulfide	137	112	111	82	81	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	46.2	45.8	88	87	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	139	138	99	99	67-130	0	25	
141-78-6	Ethyl Acetate	117	146	145	125	124	65-128	0.8	25	
110-54-3	n-Hexane	60.2	51.7	51.2	86	85	63-120	1	25	
67-66-3	Chloroform	43.8	37.2	37.0	85	84	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	136	120	119	88	88	64-123	0	25	
107-06-2	1,2-Dichloroethane	51.4	47.3	46.9	92	91	65-128	1	25	
71-43-2	Benzene	63.9	57.0	56.1	89	88	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	27.6	27.2	83	81	68-132	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		ppbV	ppbV	ppbV	ppbV					
110-82-7	Cyclohexane	121	108	108		<b>89</b>	<b>89</b>	70-117	0	25
75-27-4	Bromodichloromethane	31.4	28.4	28.3		<b>90</b>	<b>90</b>	72-128	0	25
79-01-6	Trichloroethene	38.3	35.1	34.7		<b>92</b>	<b>91</b>	71-123	1	25
123-91-1	1,4-Dioxane	57.7	58.6	57.7		<b>102</b>	<b>100</b>	71-122	2	25
142-82-5	n-Heptane	51.3	46.2	45.6		<b>90</b>	<b>89</b>	69-123	1	25
108-10-1	4-Methyl-2-pentanone	102	103	102		<b>101</b>	<b>100</b>	67-130	1	25
108-88-3	Toluene	54.7	46.8	46.0		<b>86</b>	<b>84</b>	66-119	2	25
591-78-6	2-Hexanone	98.7	103	102		<b>104</b>	<b>103</b>	62-128	1	25
124-48-1	Dibromochloromethane	24.7	22.9	22.5		<b>93</b>	<b>91</b>	70-130	2	25
106-93-4	1,2-Dibromoethane	27.1	25.9	25.5		<b>96</b>	<b>94</b>	74-122	2	25
127-18-4	Tetrachloroethene	30.4	26.7	26.2		<b>88</b>	<b>86</b>	66-124	2	25
100-41-4	Ethylbenzene	47.4	41.9	41.4		<b>88</b>	<b>87</b>	70-124	1	25
179601-23-1	m,p-Xylenes	94.9	80.7	79.7		<b>85</b>	<b>84</b>	61-134	1	25
75-25-2	Bromoform	20.1	19.4	19.1		<b>97</b>	<b>95</b>	66-139	2	25
100-42-5	Styrene	48.4	46.7	46.2		<b>96</b>	<b>95</b>	73-127	1	25
95-47-6	o-Xylene	47.4	41.5	40.8		<b>88</b>	<b>86</b>	67-125	2	25
108-67-8	1,3,5-Trimethylbenzene	41.9	35.3	35.1		<b>84</b>	<b>84</b>	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	41.5	37.2	36.6		<b>90</b>	<b>88</b>	66-132	2	25
120-82-1	1,2,4-Trichlorobenzene	52.3	50.9	50.4		<b>97</b>	<b>96</b>	55-142	1	25
91-20-3	Naphthalene	37.8	39.3	38.9		<b>104</b>	<b>103</b>	57-138	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
115-07-1	Propene	122	105	101	<b>86</b>	<b>83</b>	57-136	4	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	37.6	36.4	<b>88</b>	<b>86</b>	59-128	2	25	
74-87-3	Chloromethane	99.8	95.8	93.0	<b>96</b>	<b>93</b>	59-132	3	25	
75-01-4	Vinyl Chloride	81.4	77.9	75.4	<b>96</b>	<b>93</b>	64-127	3	25	
106-99-0	1,3-Butadiene	95.0	93.8	90.4	<b>99</b>	<b>95</b>	66-134	4	25	
75-00-3	Chloroethane	77.3	69.5	67.3	<b>90</b>	<b>87</b>	63-127	3	25	
64-17-5	Ethanol	530	436	425	<b>82</b>	<b>80</b>	59-125	2	25	
67-64-1	Acetone	435	367	357	<b>84</b>	<b>82</b>	58-128	2	25	
75-69-4	Trichlorofluoromethane	36.3	32.2	31.1	<b>89</b>	<b>86</b>	62-126	3	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	167	162	<b>101</b>	<b>98</b>	52-125	3	25	
75-09-2	Methylene Chloride	59.9	53.7	52.7	<b>90</b>	<b>88</b>	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	27.9	25.6	25.3	<b>92</b>	<b>91</b>	66-126	1	25	
75-15-0	Carbon Disulfide	137	114	113	<b>83</b>	<b>82</b>	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	47.6	46.4	<b>91</b>	<b>89</b>	68-126	2	25	
78-93-3	2-Butanone (MEK)	140	142	140	<b>101</b>	<b>100</b>	67-130	1	25	
141-78-6	Ethyl Acetate	117	150	147	<b>128</b>	<b>126</b>	65-128	2	25	
110-54-3	n-Hexane	60.2	53.1	52.8	<b>88</b>	<b>88</b>	63-120	0	25	
67-66-3	Chloroform	43.8	38.4	37.7	<b>88</b>	<b>86</b>	68-123	2	25	
109-99-9	Tetrahydrofuran (THF)	136	121	120	<b>89</b>	<b>88</b>	64-123	1	25	
107-06-2	1,2-Dichloroethane	51.4	49.9	48.8	<b>97</b>	<b>95</b>	65-128	2	25	
71-43-2	Benzene	63.9	57.1	56.4	<b>89</b>	<b>88</b>	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	28.6	28.1	<b>86</b>	<b>84</b>	68-132	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	108	108	<b>89</b>	<b>89</b>	70-117	0	25	
75-27-4	Bromodichloromethane	31.4	28.7	28.7	<b>91</b>	<b>91</b>	72-128	0	25	
79-01-6	Trichloroethene	38.3	34.8	34.5	<b>91</b>	<b>90</b>	71-123	1	25	
123-91-1	1,4-Dioxane	57.7	57.9	57.7	<b>100</b>	<b>100</b>	71-122	0	25	
142-82-5	n-Heptane	51.3	46.4	46.2	<b>90</b>	<b>90</b>	69-123	0	25	
108-10-1	4-Methyl-2-pentanone	102	104	104	<b>102</b>	<b>102</b>	67-130	0	25	
108-88-3	Toluene	54.7	45.6	45.8	<b>83</b>	<b>84</b>	66-119	1	25	
591-78-6	2-Hexanone	98.7	103	104	<b>104</b>	<b>105</b>	62-128	1	25	
124-48-1	Dibromochloromethane	24.7	22.1	22.4	<b>89</b>	<b>91</b>	70-130	2	25	
106-93-4	1,2-Dibromoethane	27.1	25.0	25.1	<b>92</b>	<b>93</b>	74-122	1	25	
127-18-4	Tetrachloroethene	30.4	26.2	25.8	<b>86</b>	<b>85</b>	66-124	1	25	
100-41-4	Ethylbenzene	47.4	41.6	41.3	<b>88</b>	<b>87</b>	70-124	1	25	
179601-23-1	m,p-Xylenes	94.9	81.3	80.2	<b>86</b>	<b>85</b>	61-134	1	25	
75-25-2	Bromoform	20.1	19.2	18.9	<b>96</b>	<b>94</b>	66-139	2	25	
100-42-5	Styrene	48.4	46.4	45.9	<b>96</b>	<b>95</b>	73-127	1	25	
95-47-6	o-Xylene	47.4	41.5	41.1	<b>88</b>	<b>87</b>	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	34.8	35.4	<b>83</b>	<b>84</b>	67-130	1	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	36.8	36.9	<b>89</b>	<b>89</b>	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	50.1	50.1	<b>96</b>	<b>96</b>	55-142	0	25	
91-20-3	Naphthalene	37.8	38.2	38.8	<b>101</b>	<b>103</b>	57-138	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201021-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS ppbV	LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits	RPD Limit	
115-07-1	Propene	122	109	104	89	85	57-136	5	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	37.7	36.5	89	86	59-128	3	25	
74-87-3	Chloromethane	99.8	95.0	92.8	95	93	59-132	2	25	
75-01-4	Vinyl Chloride	81.4	78.3	76.7	96	94	64-127	2	25	
106-99-0	1,3-Butadiene	95.0	94.3	91.8	99	97	66-134	2	25	
75-00-3	Chloroethane	77.3	71.0	68.8	92	89	63-127	3	25	
64-17-5	Ethanol	530	439	426	83	80	59-125	4	25	
67-64-1	Acetone	435	364	351	84	81	58-128	4	25	
75-69-4	Trichlorofluoromethane	36.3	31.3	30.7	86	85	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	164	160	99	96	52-125	3	25	
75-09-2	Methylene Chloride	59.9	54.0	52.7	90	88	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	27.9	25.3	25.2	91	90	66-126	1	25	
75-15-0	Carbon Disulfide	137	114	112	83	82	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	47.1	46.1	90	88	68-126	2	25	
78-93-3	2-Butanone (MEK)	140	141	139	101	99	67-130	2	25	
141-78-6	Ethyl Acetate	117	149	145	127	124	65-128	2	25	
110-54-3	n-Hexane	60.2	53.3	52.1	89	87	63-120	2	25	
67-66-3	Chloroform	43.8	38.1	37.3	87	85	68-123	2	25	
109-99-9	Tetrahydrofuran (THF)	136	122	119	90	88	64-123	2	25	
107-06-2	1,2-Dichloroethane	51.4	49.1	48.1	96	94	65-128	2	25	
71-43-2	Benzene	63.9	56.9	55.5	89	87	69-119	2	25	
56-23-5	Carbon Tetrachloride	33.4	28.2	27.5	84	82	68-132	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201021-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	109	107	<b>90</b>	<b>88</b>	70-117	2	25	
75-27-4	Bromodichloromethane	31.4	28.9	28.3	<b>92</b>	<b>90</b>	72-128	2	25	
79-01-6	Trichloroethene	38.3	35.2	34.5	<b>92</b>	<b>90</b>	71-123	2	25	
123-91-1	1,4-Dioxane	57.7	58.8	57.3	<b>102</b>	<b>99</b>	71-122	3	25	
142-82-5	n-Heptane	51.3	46.5	45.4	<b>91</b>	<b>88</b>	69-123	3	25	
108-10-1	4-Methyl-2-pentanone	102	104	102	<b>102</b>	<b>100</b>	67-130	2	25	
108-88-3	Toluene	54.7	46.0	45.4	<b>84</b>	<b>83</b>	66-119	1	25	
591-78-6	2-Hexanone	98.7	104	102	<b>105</b>	<b>103</b>	62-128	2	25	
124-48-1	Dibromochloromethane	24.7	22.5	22.3	<b>91</b>	<b>90</b>	70-130	1	25	
106-93-4	1,2-Dibromoethane	27.1	25.3	24.9	<b>93</b>	<b>92</b>	74-122	1	25	
127-18-4	Tetrachloroethene	30.4	26.1	25.9	<b>86</b>	<b>85</b>	66-124	1	25	
100-41-4	Ethylbenzene	47.4	41.5	40.9	<b>88</b>	<b>86</b>	70-124	2	25	
179601-23-1	m,p-Xylenes	94.9	80.1	79.1	<b>84</b>	<b>83</b>	61-134	1	25	
75-25-2	Bromoform	20.1	19.1	18.9	<b>95</b>	<b>94</b>	66-139	1	25	
100-42-5	Styrene	48.4	45.8	45.3	<b>95</b>	<b>94</b>	73-127	1	25	
95-47-6	o-Xylene	47.4	41.2	40.7	<b>87</b>	<b>86</b>	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	35.2	34.6	<b>84</b>	<b>83</b>	67-130	1	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	36.9	36.4	<b>89</b>	<b>88</b>	66-132	1	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	50.1	49.8	<b>96</b>	<b>95</b>	55-142	1	25	
91-20-3	Naphthalene	37.8	38.6	38.4	<b>102</b>	<b>102</b>	57-138	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00037

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -4.24 Final Pressure (psig): 7.69

Container Dilution Factor: 2.14

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3,400	5,600	3,400	1,400	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3,400	5,600	3,400	930	U
74-87-3	Chloromethane	3,400	5,600	3,400	920	U
75-01-4	Vinyl Chloride	1,800	5,700	1,800	610	U
106-99-0	1,3-Butadiene	3,400	5,600	3,400	940	U
75-00-3	Chloroethane	3,400	5,600	3,400	710	U
64-17-5	Ethanol	8,900	57,000	8,900	4,000	U
67-64-1	Acetone	29,000	56,000	29,000	13,000	U
75-69-4	Trichlorofluoromethane	3,400	5,500	3,400	870	U
67-63-0	2-Propanol (Isopropyl Alcohol)	6,700	11,000	6,700	2,400	U
75-09-2	Methylene Chloride	3,400	5,600	3,400	1,600	U
76-13-1	Trichlorotrifluoroethane	1,800	5,700	1,800	810	U
75-15-0	Carbon Disulfide	5,800	11,000	5,800	1,700	U
75-34-3	1,1-Dichloroethane	3,500	5,800	3,500	830	U
78-93-3	2-Butanone (MEK)	3,400	11,000	3,400	1,200	U
141-78-6	Ethyl Acetate	7,000	11,000	7,000	3,000	U
110-54-3	n-Hexane	3,600	5,600	3,400	1,200	J
67-66-3	Chloroform	1,800	5,700	1,800	760	U
109-99-9	Tetrahydrofuran (THF)	1,800	11,000	1,800	720	U
107-06-2	1,2-Dichloroethane	1,800	5,600	1,800	630	U
71-43-2	Benzene	110,000	5,600	1,800	820	
56-23-5	Carbon Tetrachloride	1,800	5,500	1,800	790	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-050-604

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-001

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS00037

Initial Pressure (psig): -4.24 Final Pressure (psig): 7.69

Container Dilution Factor: 2.14

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	7,500	11,000	3,600	1,600	J
75-27-4	Bromodichloromethane	1,800	5,600	1,800	820	U
79-01-6	Trichloroethene	1,800	5,500	1,800	770	U
123-91-1	1,4-Dioxane	1,800	5,600	1,800	670	U
142-82-5	n-Heptane	3,500	5,600	3,400	910	J
108-10-1	4-Methyl-2-pentanone	2,300	11,000	1,800	780	J
108-88-3	Toluene	3,900	5,600	1,800	700	J
591-78-6	2-Hexanone	1,800	11,000	1,800	710	U
124-48-1	Dibromochloromethane	1,800	5,600	1,800	750	U
106-93-4	1,2-Dibromoethane	1,800	5,600	1,800	660	U
127-18-4	Tetrachloroethene	1,800	5,600	1,800	740	U
100-41-4	Ethylbenzene	1,800	5,600	1,800	800	U
179601-23-1	m,p-Xylenes	3,600	11,000	3,600	1,500	U
75-25-2	Bromoform	3,400	5,700	3,400	1,200	U
100-42-5	Styrene	3,400	5,600	3,400	920	U
95-47-6	o-Xylene	1,800	5,700	1,800	820	U
108-67-8	1,3,5-Trimethylbenzene	1,800	5,700	1,800	820	U
95-63-6	1,2,4-Trimethylbenzene	1,800	5,600	1,800	790	U
120-82-1	1,2,4-Trichlorobenzene	3,400	11,000	3,400	1,400	U
91-20-3	Naphthalene	3,300	5,600	3,300	1,400	U
1330-20-7	Xylenes, Total	3,600	11,000	3,600	1,500	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-050-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-002

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SC00581

Initial Pressure (psig): -2.95 Final Pressure (psig): 9.44

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3,300	5,300	3,300	1,300	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3,300	5,300	3,300	890	U
74-87-3	Chloromethane	3,300	5,300	3,300	880	U
75-01-4	Vinyl Chloride	1,700	5,400	1,700	580	U
106-99-0	1,3-Butadiene	3,300	5,300	3,300	900	U
75-00-3	Chloroethane	3,300	5,300	3,300	680	U
64-17-5	Ethanol	8,500	54,000	8,500	3,800	U
67-64-1	Acetone	28,000	53,000	28,000	12,000	U
75-69-4	Trichlorofluoromethane	3,300	5,200	3,300	830	U
67-63-0	2-Propanol (Isopropyl Alcohol)	6,500	10,000	6,500	2,300	U
75-09-2	Methylene Chloride	3,300	5,300	3,300	1,500	U
76-13-1	Trichlorotrifluoroethane	1,700	5,400	1,700	780	U
75-15-0	Carbon Disulfide	5,500	10,000	5,500	1,600	U
75-34-3	1,1-Dichloroethane	3,400	5,500	3,400	800	U
78-93-3	2-Butanone (MEK)	3,300	10,000	3,300	1,100	U
141-78-6	Ethyl Acetate	6,700	10,000	6,700	2,900	U
110-54-3	n-Hexane	<b>2,300</b>	5,300	3,300	1,100	J
67-66-3	Chloroform	1,700	5,400	1,700	730	U
109-99-9	Tetrahydrofuran (THF)	1,700	10,000	1,700	690	U
107-06-2	1,2-Dichloroethane	1,700	5,300	1,700	600	U
71-43-2	Benzene	<b>200,000</b>	5,300	1,700	790	
56-23-5	Carbon Tetrachloride	1,700	5,200	1,700	760	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-050-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-002

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SC00581

Initial Pressure (psig): -2.95 Final Pressure (psig): 9.44

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	8,400	10,000	3,500	1,500	J
75-27-4	Bromodichloromethane	1,700	5,300	1,700	790	U
79-01-6	Trichloroethene	1,700	5,200	1,700	740	U
123-91-1	1,4-Dioxane	1,700	5,300	1,700	650	U
142-82-5	n-Heptane	2,200	5,300	3,300	870	J
108-10-1	4-Methyl-2-pentanone	1,700	10,000	1,700	750	U
108-88-3	Toluene	2,300	5,300	1,700	670	J
591-78-6	2-Hexanone	1,700	10,000	1,700	680	U
124-48-1	Dibromochloromethane	1,700	5,300	1,700	720	U
106-93-4	1,2-Dibromoethane	1,700	5,300	1,700	640	U
127-18-4	Tetrachloroethene	1,700	5,300	1,700	710	U
100-41-4	Ethylbenzene	1,700	5,300	1,700	770	U
179601-23-1	m,p-Xylenes	3,500	10,000	3,500	1,400	U
75-25-2	Bromoform	3,300	5,400	3,300	1,100	U
100-42-5	Styrene	3,300	5,300	3,300	880	U
95-47-6	o-Xylene	1,700	5,400	1,700	790	U
108-67-8	1,3,5-Trimethylbenzene	1,700	5,400	1,700	790	U
95-63-6	1,2,4-Trimethylbenzene	1,700	5,300	1,700	760	U
120-82-1	1,2,4-Trichlorobenzene	3,300	10,000	3,300	1,300	U
91-20-3	Naphthalene	3,200	5,300	3,200	1,300	U
1330-20-7	Xylenes, Total	3,500	10,000	3,500	1,400	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV04-100-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00050

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.000075 Liter(s)

Initial Pressure (psig): -3.19 Final Pressure (psig): 6.47

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	7,900	13,000	7,900	3,200	U
75-71-8	Dichlorodifluoromethane (CFC 12)	7,900	13,000	7,900	2,100	U
74-87-3	Chloromethane	7,900	13,000	7,900	2,100	U
75-01-4	Vinyl Chloride	4,200	13,000	4,200	1,400	U
106-99-0	1,3-Butadiene	7,900	13,000	7,900	2,200	U
75-00-3	Chloroethane	7,900	13,000	7,900	1,600	U
64-17-5	Ethanol	10,000	130,000	20,000	9,100	J
67-64-1	Acetone	66,000	130,000	66,000	29,000	U
75-69-4	Trichlorofluoromethane	7,900	13,000	7,900	2,000	U
67-63-0	2-Propanol (Isopropyl Alcohol)	15,000	25,000	15,000	5,400	U
75-09-2	Methylene Chloride	7,900	13,000	7,900	3,700	U
76-13-1	Trichlorotrifluoroethane	4,200	13,000	4,200	1,900	U
75-15-0	Carbon Disulfide	13,000	25,000	13,000	3,900	U
75-34-3	1,1-Dichloroethane	8,100	13,000	8,100	1,900	U
78-93-3	2-Butanone (MEK)	7,900	25,000	7,900	2,700	U
141-78-6	Ethyl Acetate	16,000	25,000	16,000	6,900	U
110-54-3	n-Hexane	2,200,000	13,000	7,900	2,700	
67-66-3	Chloroform	4,200	13,000	4,200	1,700	U
109-99-9	Tetrahydrofuran (THF)	4,200	25,000	4,200	1,600	U
107-06-2	1,2-Dichloroethane	4,200	13,000	4,200	1,400	U
71-43-2	Benzene	780,000	13,000	4,200	1,900	
56-23-5	Carbon Tetrachloride	4,200	13,000	4,200	1,800	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV04-100-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-003

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.000075 Liter(s)

Test Notes:

Container ID: 1SC00050

Initial Pressure (psig): -3.19 Final Pressure (psig): 6.47

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2,200,000	25,000	8,300	3,700	
75-27-4	Bromodichloromethane	4,200	13,000	4,200	1,900	U
79-01-6	Trichloroethene	1,800	13,000	4,200	1,800	J
123-91-1	1,4-Dioxane	4,200	13,000	4,200	1,500	U
142-82-5	n-Heptane	2,200,000	13,000	7,900	2,100	
108-10-1	4-Methyl-2-pentanone	4,200	25,000	4,200	1,800	U
108-88-3	Toluene	2,000,000	13,000	4,200	1,600	
591-78-6	2-Hexanone	4,200	25,000	4,200	1,600	U
124-48-1	Dibromochloromethane	4,200	13,000	4,200	1,700	U
106-93-4	1,2-Dibromoethane	9,600	13,000	4,200	1,500	J
127-18-4	Tetrachloroethene	4,200	13,000	4,200	1,700	U
100-41-4	Ethylbenzene	120,000	13,000	4,200	1,800	
179601-23-1	m,p-Xylenes	310,000	25,000	8,300	3,400	
75-25-2	Bromoform	7,900	13,000	7,900	2,700	U
100-42-5	Styrene	7,900	13,000	7,900	2,100	U
95-47-6	o-Xylene	79,000	13,000	4,200	1,900	
108-67-8	1,3,5-Trimethylbenzene	5,600	13,000	4,200	1,900	J
95-63-6	1,2,4-Trimethylbenzene	9,300	13,000	4,200	1,800	J
120-82-1	1,2,4-Trichlorobenzene	7,900	25,000	7,900	3,200	U
91-20-3	Naphthalene	7,600	13,000	7,600	3,200	U
1330-20-7	Xylenes, Total	390,000	25,000	8,300	3,400	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-250-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-004

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.000050 Liter(s)

Test Notes:

Container ID: 1SS00839

Initial Pressure (psig): -2.67 Final Pressure (psig): 6.69

Container Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	8,200	19,000	11,000	4,600	J
75-71-8	Dichlorodifluoromethane (CFC 12)	11,000	19,000	11,000	3,100	U
74-87-3	Chloromethane	11,000	19,000	11,000	3,100	U
75-01-4	Vinyl Chloride	6,100	19,000	6,100	2,000	U
106-99-0	1,3-Butadiene	11,000	19,000	11,000	3,100	U
75-00-3	Chloroethane	11,000	19,000	11,000	2,300	U
64-17-5	Ethanol	30,000	190,000	30,000	13,000	U
67-64-1	Acetone	96,000	190,000	96,000	43,000	U
75-69-4	Trichlorofluoromethane	11,000	18,000	11,000	2,900	U
67-63-0	2-Propanol (Isopropyl Alcohol)	22,000	36,000	22,000	7,800	U
75-09-2	Methylene Chloride	11,000	19,000	11,000	5,300	U
76-13-1	Trichlorotrifluoroethane	6,100	19,000	6,100	2,700	U
75-15-0	Carbon Disulfide	19,000	36,000	19,000	5,700	U
75-34-3	1,1-Dichloroethane	12,000	19,000	12,000	2,800	U
78-93-3	2-Butanone (MEK)	11,000	36,000	11,000	3,900	U
141-78-6	Ethyl Acetate	23,000	36,000	23,000	10,000	U
110-54-3	n-Hexane	3,500,000	19,000	11,000	3,900	
67-66-3	Chloroform	6,100	19,000	6,100	2,500	U
109-99-9	Tetrahydrofuran (THF)	6,100	36,000	6,100	2,400	U
107-06-2	1,2-Dichloroethane	6,100	19,000	6,100	2,100	U
71-43-2	Benzene	970,000	19,000	6,100	2,700	
56-23-5	Carbon Tetrachloride	6,100	18,000	6,100	2,600	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV04-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-004

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.000050 Liter(s)

Test Notes:

Container ID: 1SS00839

Initial Pressure (psig): -2.67 Final Pressure (psig): 6.69

Container Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2,900,000	36,000	12,000	5,300	
75-27-4	Bromodichloromethane	6,100	19,000	6,100	2,700	U
79-01-6	Trichloroethene	6,100	18,000	6,100	2,600	U
123-91-1	1,4-Dioxane	6,100	19,000	6,100	2,200	U
142-82-5	n-Heptane	2,900,000	19,000	11,000	3,000	
108-10-1	4-Methyl-2-pentanone	6,100	36,000	6,100	2,600	U
108-88-3	Toluene	670,000	19,000	6,100	2,300	
591-78-6	2-Hexanone	6,100	36,000	6,100	2,300	U
124-48-1	Dibromochloromethane	6,100	19,000	6,100	2,500	U
106-93-4	1,2-Dibromoethane	6,100	19,000	6,100	2,200	U
127-18-4	Tetrachloroethene	6,100	19,000	6,100	2,500	U
100-41-4	Ethylbenzene	37,000	19,000	6,100	2,700	
179601-23-1	m,p-Xylenes	150,000	36,000	12,000	5,000	
75-25-2	Bromoform	11,000	19,000	11,000	3,900	U
100-42-5	Styrene	11,000	19,000	11,000	3,100	U
95-47-6	o-Xylene	48,000	19,000	6,100	2,700	
108-67-8	1,3,5-Trimethylbenzene	3,700	19,000	6,100	2,700	J
95-63-6	1,2,4-Trimethylbenzene	3,900	19,000	6,100	2,600	J
120-82-1	1,2,4-Trichlorobenzene	11,000	36,000	11,000	4,600	U
91-20-3	Naphthalene	11,000	19,000	11,000	4,600	U
1330-20-7	Xylenes, Total	200,000	36,000	12,000	5,000	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV04-300-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00192

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.0010 Liter(s)

Initial Pressure (psig): -3.36 Final Pressure (psig): 6.95

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	440	990	610	250	J
75-71-8	Dichlorodifluoromethane (CFC 12)	610	990	610	170	U
74-87-3	Chloromethane	610	990	610	160	U
75-01-4	Vinyl Chloride	320	1,000	320	110	U
106-99-0	1,3-Butadiene	610	990	610	170	U
75-00-3	Chloroethane	610	990	610	130	U
64-17-5	Ethanol	1,600	10,000	1,600	710	U
67-64-1	Acetone	5,200	9,900	5,200	2,300	U
75-69-4	Trichlorofluoromethane	610	970	610	150	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,200	1,900	1,200	420	U
75-09-2	Methylene Chloride	610	990	610	290	U
76-13-1	Trichlorotrifluoroethane	320	1,000	320	150	U
75-15-0	Carbon Disulfide	1,000	1,900	1,000	310	U
75-34-3	1,1-Dichloroethane	630	1,000	630	150	U
78-93-3	2-Butanone (MEK)	610	1,900	610	210	U
141-78-6	Ethyl Acetate	1,200	1,900	1,200	530	U
110-54-3	n-Hexane	130,000	990	610	210	U
67-66-3	Chloroform	320	1,000	320	140	U
109-99-9	Tetrahydrofuran (THF)	320	1,900	320	130	U
107-06-2	1,2-Dichloroethane	320	990	320	110	U
71-43-2	Benzene	71,000	990	320	150	U
56-23-5	Carbon Tetrachloride	320	970	320	140	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV04-300-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-005

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0010 Liter(s)

Test Notes:

Container ID: 1SC00192

Initial Pressure (psig): -3.36 Final Pressure (psig): 6.95

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	150,000	1,900	650	290	
75-27-4	Bromodichloromethane	320	990	320	150	U
79-01-6	Trichloroethene	320	970	320	140	U
123-91-1	1,4-Dioxane	320	990	320	120	U
142-82-5	n-Heptane	150,000	990	610	160	
108-10-1	4-Methyl-2-pentanone	320	1,900	320	140	U
108-88-3	Toluene	11,000	990	320	120	
591-78-6	2-Hexanone	320	1,900	320	130	U
124-48-1	Dibromochloromethane	320	990	320	130	U
106-93-4	1,2-Dibromoethane	320	990	320	120	U
127-18-4	Tetrachloroethene	320	990	320	130	U
100-41-4	Ethylbenzene	820	990	320	140	J
179601-23-1	m,p-Xylenes	6,800	1,900	650	270	
75-25-2	Bromoform	610	1,000	610	210	U
100-42-5	Styrene	610	990	610	160	U
95-47-6	o-Xylene	2,700	1,000	320	150	
108-67-8	1,3,5-Trimethylbenzene	1,100	1,000	320	150	
95-63-6	1,2,4-Trimethylbenzene	1,300	990	320	140	
120-82-1	1,2,4-Trichlorobenzene	610	1,900	610	250	U
91-20-3	Naphthalene	590	990	590	250	U
1330-20-7	Xylenes, Total	9,500	1,900	650	270	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV08-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00621

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20 &amp; 10/22/20

Volume(s) Analyzed: 0.00060 Liter(s)

0.00025 Liter(s)

Initial Pressure (psig): -2.35 Final Pressure (psig): 7.77

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>1,200</b>	1,600	970	390	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	970	1,600	970	260	<b>U</b>
74-87-3	Chloromethane	970	1,600	970	260	<b>U</b>
75-01-4	Vinyl Chloride	520	1,600	520	170	<b>U</b>
106-99-0	1,3-Butadiene	970	1,600	970	270	<b>U</b>
75-00-3	Chloroethane	970	1,600	970	200	<b>U</b>
64-17-5	Ethanol	2,500	16,000	2,500	1,100	<b>U</b>
67-64-1	Acetone	8,200	16,000	8,200	3,600	<b>U</b>
75-69-4	Trichlorofluoromethane	970	1,500	970	250	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1,900	3,000	1,900	670	<b>U</b>
75-09-2	Methylene Chloride	970	1,600	970	460	<b>U</b>
76-13-1	Trichlorotrifluoroethane	520	1,600	520	230	<b>U</b>
75-15-0	Carbon Disulfide	1,600	3,000	1,600	490	<b>U</b>
75-34-3	1,1-Dichloroethane	1,000	1,600	1,000	240	<b>U</b>
78-93-3	2-Butanone (MEK)	970	3,000	970	330	<b>U</b>
141-78-6	Ethyl Acetate	2,000	3,000	2,000	850	<b>U</b>
110-54-3	n-Hexane	<b>190,000</b>	1,600	970	330	
67-66-3	Chloroform	520	1,600	520	220	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	520	3,000	520	200	<b>U</b>
107-06-2	1,2-Dichloroethane	520	1,600	520	180	<b>U</b>
71-43-2	Benzene	<b>140,000</b>	1,600	520	230	
56-23-5	Carbon Tetrachloride	520	1,500	520	220	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV08-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00621

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20 &amp; 10/22/20

Volume(s) Analyzed: 0.00060 Liter(s)

0.00025 Liter(s)

Initial Pressure (psig): -2.35 Final Pressure (psig): 7.77

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>310,000</b>	3,000	1,000	460	
75-27-4	Bromodichloromethane	520	1,600	520	230	U
79-01-6	Trichloroethene	520	1,500	520	220	U
123-91-1	1,4-Dioxane	520	1,600	520	190	U
142-82-5	n-Heptane	<b>450,000</b>	3,800	2,300	620	D
108-10-1	4-Methyl-2-pentanone	520	3,000	520	220	U
108-88-3	Toluene	<b>140,000</b>	1,600	520	200	
591-78-6	2-Hexanone	520	3,000	520	200	U
124-48-1	Dibromochloromethane	520	1,600	520	210	U
106-93-4	1,2-Dibromoethane	<b>900</b>	1,600	520	190	J
127-18-4	Tetrachloroethene	520	1,600	520	210	U
100-41-4	Ethylbenzene	<b>5,500</b>	1,600	520	230	
179601-23-1	m,p-Xylenes	<b>79,000</b>	3,000	1,000	420	
75-25-2	Bromoform	970	1,600	970	330	U
100-42-5	Styrene	970	1,600	970	260	U
95-47-6	o-Xylene	<b>28,000</b>	1,600	520	230	
108-67-8	1,3,5-Trimethylbenzene	<b>3,000</b>	1,600	520	230	
95-63-6	1,2,4-Trimethylbenzene	<b>2,800</b>	1,600	520	220	
120-82-1	1,2,4-Trichlorobenzene	970	3,000	970	390	U
91-20-3	Naphthalene	940	1,600	940	390	U
1330-20-7	Xylenes, Total	<b>110,000</b>	3,000	1,000	420	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV08-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00775

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.020 Liter(s)

Initial Pressure (psig): -3.51 Final Pressure (psig): 7.51

Container Dilution Factor: 1.98

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	48	51	32	13	J
75-71-8	Dichlorodifluoromethane (CFC 12)	32	51	32	8.6	U
74-87-3	Chloromethane	32	51	32	8.5	U
75-01-4	Vinyl Chloride	17	52	17	5.6	U
106-99-0	1,3-Butadiene	32	51	32	8.7	U
75-00-3	Chloroethane	32	51	32	6.5	U
64-17-5	Ethanol	82	520	82	37	U
67-64-1	Acetone	130	510	270	120	J
75-69-4	Trichlorofluoromethane	32	50	32	8.0	U
67-63-0	2-Propanol (Isopropyl Alcohol)	100	99	62	22	
75-09-2	Methylene Chloride	32	51	32	15	U
76-13-1	Trichlorotrifluoroethane	17	52	17	7.5	U
75-15-0	Carbon Disulfide	53	99	53	16	U
75-34-3	1,1-Dichloroethane	33	53	33	7.7	U
78-93-3	2-Butanone (MEK)	22	99	32	11	J
141-78-6	Ethyl Acetate	210	99	64	28	
110-54-3	n-Hexane	29	51	32	11	J
67-66-3	Chloroform	17	52	17	7.0	U
109-99-9	Tetrahydrofuran (THF)	17	99	17	6.6	U
107-06-2	1,2-Dichloroethane	17	51	17	5.8	U
71-43-2	Benzene	37	51	17	7.6	J
56-23-5	Carbon Tetrachloride	17	50	17	7.3	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV08-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00775

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.020 Liter(s)

Initial Pressure (psig): -3.51 Final Pressure (psig): 7.51

Container Dilution Factor: 1.98

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	28	99	34	15	J
75-27-4	Bromodichloromethane	17	51	17	7.6	U
79-01-6	Trichloroethene	17	50	17	7.1	U
123-91-1	1,4-Dioxane	17	51	17	6.2	U
142-82-5	n-Heptane	150	51	32	8.4	
108-10-1	4-Methyl-2-pentanone	17	99	17	7.2	U
108-88-3	Toluene	120	51	17	6.4	
591-78-6	2-Hexanone	17	99	17	6.5	U
124-48-1	Dibromochloromethane	17	51	17	6.9	U
106-93-4	1,2-Dibromoethane	17	51	17	6.1	U
127-18-4	Tetrachloroethene	17	51	17	6.8	U
100-41-4	Ethylbenzene	10	51	17	7.4	J
179601-23-1	m,p-Xylenes	91	99	34	14	J
75-25-2	Bromoform	32	52	32	11	U
100-42-5	Styrene	32	51	32	8.5	U
95-47-6	o-Xylene	30	52	17	7.6	J
108-67-8	1,3,5-Trimethylbenzene	17	52	17	7.6	U
95-63-6	1,2,4-Trimethylbenzene	11	51	17	7.3	J
120-82-1	1,2,4-Trichlorobenzene	32	99	32	13	U
91-20-3	Naphthalene	31	51	31	13	U
1330-20-7	Xylenes, Total	120	99	34	14	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV08-250-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-008

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00025 Liter(s)

Test Notes:

Container ID: 1SS00871

Initial Pressure (psig): -4.26 Final Pressure (psig): 6.58

Container Dilution Factor: 2.04

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2,600	4,200	2,600	1,100	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2,600	4,200	2,600	710	U
74-87-3	Chloromethane	2,600	4,200	2,600	700	U
75-01-4	Vinyl Chloride	1,400	4,300	1,400	470	U
106-99-0	1,3-Butadiene	2,600	4,200	2,600	720	U
75-00-3	Chloroethane	2,600	4,200	2,600	540	U
64-17-5	Ethanol	6,800	43,000	6,800	3,000	U
67-64-1	Acetone	22,000	42,000	22,000	9,800	U
75-69-4	Trichlorofluoromethane	2,600	4,200	2,600	660	U
67-63-0	2-Propanol (Isopropyl Alcohol)	5,100	8,200	5,100	1,800	U
75-09-2	Methylene Chloride	2,600	4,200	2,600	1,200	U
76-13-1	Trichlorotrifluoroethane	1,400	4,300	1,400	620	U
75-15-0	Carbon Disulfide	4,400	8,200	4,400	1,300	U
75-34-3	1,1-Dichloroethane	2,700	4,400	2,700	640	U
78-93-3	2-Butanone (MEK)	2,600	8,200	2,600	900	U
141-78-6	Ethyl Acetate	5,300	8,200	5,300	2,300	U
110-54-3	n-Hexane	760,000	4,200	2,600	900	U
67-66-3	Chloroform	1,400	4,300	1,400	580	U
109-99-9	Tetrahydrofuran (THF)	1,400	8,200	1,400	550	U
107-06-2	1,2-Dichloroethane	1,400	4,200	1,400	480	U
71-43-2	Benzene	400,000	4,200	1,400	630	U
56-23-5	Carbon Tetrachloride	1,400	4,200	1,400	600	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV08-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-008

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00025 Liter(s)

Test Notes:

Container ID: 1SS00871

Initial Pressure (psig): -4.26 Final Pressure (psig): 6.58

Container Dilution Factor: 2.04

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1,000,000	8,200	2,800	1,200	
75-27-4	Bromodichloromethane	1,400	4,200	1,400	630	U
79-01-6	Trichloroethene	1,400	4,200	1,400	590	U
123-91-1	1,4-Dioxane	1,400	4,200	1,400	510	U
142-82-5	n-Heptane	560,000	4,200	2,600	690	
108-10-1	4-Methyl-2-pentanone	1,400	8,200	1,400	600	U
108-88-3	Toluene	770,000	4,200	1,400	530	
591-78-6	2-Hexanone	1,400	8,200	1,400	540	U
124-48-1	Dibromochloromethane	1,400	4,200	1,400	570	U
106-93-4	1,2-Dibromoethane	6,800	4,200	1,400	510	
127-18-4	Tetrachloroethene	1,400	4,200	1,400	560	U
100-41-4	Ethylbenzene	51,000	4,200	1,400	610	
179601-23-1	m,p-Xylenes	170,000	8,200	2,800	1,100	
75-25-2	Bromoform	2,600	4,300	2,600	900	U
100-42-5	Styrene	2,600	4,200	2,600	700	U
95-47-6	o-Xylene	53,000	4,300	1,400	630	
108-67-8	1,3,5-Trimethylbenzene	10,000	4,300	1,400	630	
95-63-6	1,2,4-Trimethylbenzene	22,000	4,200	1,400	600	
120-82-1	1,2,4-Trichlorobenzene	2,600	8,200	2,600	1,100	U
91-20-3	Naphthalene	2,500	4,200	2,500	1,100	U
1330-20-7	Xylenes, Total	230,000	8,200	2,800	1,100	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-050-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-009

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00035 Liter(s)

Test Notes:

Container ID: 1SC01248

Initial Pressure (psig): -3.50 Final Pressure (psig): 5.88

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1,700	2,700	1,700	680	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1,700	2,700	1,700	460	U
74-87-3	Chloromethane	1,700	2,700	1,700	450	U
75-01-4	Vinyl Chloride	890	2,800	890	300	U
106-99-0	1,3-Butadiene	1,700	2,700	1,700	460	U
75-00-3	Chloroethane	1,700	2,700	1,700	350	U
64-17-5	Ethanol	4,400	28,000	4,400	1,900	U
67-64-1	Acetone	14,000	27,000	14,000	6,300	U
75-69-4	Trichlorofluoromethane	1,700	2,700	1,700	430	U
67-63-0	2-Propanol (Isopropyl Alcohol)	3,300	5,300	3,300	1,200	U
75-09-2	Methylene Chloride	1,700	2,700	1,700	790	U
76-13-1	Trichlorotrifluoroethane	890	2,800	890	400	U
75-15-0	Carbon Disulfide	2,800	5,300	2,800	840	U
75-34-3	1,1-Dichloroethane	1,700	2,800	1,700	410	U
78-93-3	2-Butanone (MEK)	1,700	5,300	1,700	580	U
141-78-6	Ethyl Acetate	3,400	5,300	3,400	1,500	U
110-54-3	n-Hexane	1,700	2,700	1,700	580	U
67-66-3	Chloroform	890	2,800	890	370	U
109-99-9	Tetrahydrofuran (THF)	890	5,300	890	350	U
107-06-2	1,2-Dichloroethane	890	2,700	890	310	U
71-43-2	Benzene	890	2,700	890	400	U
56-23-5	Carbon Tetrachloride	890	2,700	890	390	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01248

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00035 Liter(s)

Initial Pressure (psig): -3.50 Final Pressure (psig): 5.88

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1,800	5,300	1,800	790	U
75-27-4	Bromodichloromethane	890	2,700	890	400	U
79-01-6	Trichloroethene	890	2,700	890	380	U
123-91-1	1,4-Dioxane	890	2,700	890	330	U
142-82-5	n-Heptane	1,700	2,700	1,700	450	U
108-10-1	4-Methyl-2-pentanone	890	5,300	890	380	U
108-88-3	Toluene	<b>490</b>	2,700	890	340	J
591-78-6	2-Hexanone	890	5,300	890	350	U
124-48-1	Dibromochloromethane	890	2,700	890	370	U
106-93-4	1,2-Dibromoethane	890	2,700	890	330	U
127-18-4	Tetrachloroethene	890	2,700	890	360	U
100-41-4	Ethylbenzene	890	2,700	890	390	U
179601-23-1	m,p-Xylenes	1,800	5,300	1,800	740	U
75-25-2	Bromoform	1,700	2,800	1,700	580	U
100-42-5	Styrene	1,700	2,700	1,700	450	U
95-47-6	o-Xylene	890	2,800	890	400	U
108-67-8	1,3,5-Trimethylbenzene	890	2,800	890	400	U
95-63-6	1,2,4-Trimethylbenzene	890	2,700	890	390	U
120-82-1	1,2,4-Trichlorobenzene	1,700	5,300	1,700	680	U
91-20-3	Naphthalene	1,600	2,700	1,600	680	U
1330-20-7	Xylenes, Total	1,800	5,300	1,800	740	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-100-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-010

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SS00011

Initial Pressure (psig): -3.40 Final Pressure (psig): 6.67

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3,200	6,600	4,000	1,600	J
75-71-8	Dichlorodifluoromethane (CFC 12)	4,000	6,600	4,000	1,100	U
74-87-3	Chloromethane	4,000	6,600	4,000	1,100	U
75-01-4	Vinyl Chloride	2,100	6,700	2,100	720	U
106-99-0	1,3-Butadiene	4,000	6,600	4,000	1,100	U
75-00-3	Chloroethane	4,000	6,600	4,000	830	U
64-17-5	Ethanol	10,000	67,000	10,000	4,700	U
67-64-1	Acetone	34,000	66,000	34,000	15,000	U
75-69-4	Trichlorofluoromethane	4,000	6,400	4,000	1,000	U
67-63-0	2-Propanol (Isopropyl Alcohol)	7,900	13,000	7,900	2,800	U
75-09-2	Methylene Chloride	4,000	6,600	4,000	1,900	U
76-13-1	Trichlorotrifluoroethane	2,100	6,700	2,100	960	U
75-15-0	Carbon Disulfide	6,800	13,000	6,800	2,000	U
75-34-3	1,1-Dichloroethane	4,200	6,800	4,200	980	U
78-93-3	2-Butanone (MEK)	4,000	13,000	4,000	1,400	U
141-78-6	Ethyl Acetate	8,200	13,000	8,200	3,500	U
110-54-3	n-Hexane	1,300,000	6,600	4,000	1,400	
67-66-3	Chloroform	2,100	6,700	2,100	890	U
109-99-9	Tetrahydrofuran (THF)	2,100	13,000	2,100	840	U
107-06-2	1,2-Dichloroethane	2,100	6,600	2,100	740	U
71-43-2	Benzene	570,000	6,600	2,100	970	
56-23-5	Carbon Tetrachloride	2,100	6,400	2,100	930	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-100-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-010

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SS00011

Initial Pressure (psig): -3.40 Final Pressure (psig): 6.67

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1,200,000	13,000	4,300	1,900	
75-27-4	Bromodichloromethane	2,100	6,600	2,100	970	U
79-01-6	Trichloroethene	2,100	6,400	2,100	910	U
123-91-1	1,4-Dioxane	2,100	6,600	2,100	790	U
142-82-5	n-Heptane	1,300,000	6,600	4,000	1,100	
108-10-1	4-Methyl-2-pentanone	2,100	13,000	2,100	920	U
108-88-3	Toluene	1,300,000	6,600	2,100	820	
591-78-6	2-Hexanone	2,100	13,000	2,100	830	U
124-48-1	Dibromochloromethane	2,100	6,600	2,100	880	U
106-93-4	1,2-Dibromoethane	12,000	6,600	2,100	780	
127-18-4	Tetrachloroethene	2,100	6,600	2,100	870	U
100-41-4	Ethylbenzene	120,000	6,600	2,100	950	
179601-23-1	m,p-Xylenes	340,000	13,000	4,300	1,800	
75-25-2	Bromoform	4,000	6,700	4,000	1,400	U
100-42-5	Styrene	4,000	6,600	4,000	1,100	U
95-47-6	o-Xylene	110,000	6,700	2,100	970	
108-67-8	1,3,5-Trimethylbenzene	12,000	6,700	2,100	970	
95-63-6	1,2,4-Trimethylbenzene	20,000	6,600	2,100	930	
120-82-1	1,2,4-Trichlorobenzene	4,000	13,000	4,000	1,600	U
91-20-3	Naphthalene	3,900	6,600	3,900	1,600	U
1330-20-7	Xylenes, Total	450,000	13,000	4,300	1,800	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00233

Date Collected: 10/5/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00075 Liter(s)

0.00015 Liter(s)

Initial Pressure (psig): -2.77 Final Pressure (psig): 7.14

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>1,300</b>	1,300	780	320	
75-71-8	Dichlorodifluoromethane (CFC 12)	780	1,300	780	210	U
74-87-3	Chloromethane	780	1,300	780	210	U
75-01-4	Vinyl Chloride	410	1,300	410	140	U
106-99-0	1,3-Butadiene	780	1,300	780	210	U
75-00-3	Chloroethane	780	1,300	780	160	U
64-17-5	Ethanol	2,000	13,000	2,000	900	U
67-64-1	Acetone	6,600	13,000	6,600	2,900	U
75-69-4	Trichlorofluoromethane	780	1,200	780	200	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,500	2,400	1,500	540	U
75-09-2	Methylene Chloride	780	1,300	780	370	U
76-13-1	Trichlorotrifluoroethane	410	1,300	410	190	U
75-15-0	Carbon Disulfide	1,300	2,400	1,300	390	U
75-34-3	1,1-Dichloroethane	810	1,300	810	190	U
78-93-3	2-Butanone (MEK)	780	2,400	780	270	U
141-78-6	Ethyl Acetate	1,600	2,400	1,600	680	U
110-54-3	n-Hexane	<b>95,000</b>	1,300	780	270	
67-66-3	Chloroform	410	1,300	410	170	U
109-99-9	Tetrahydrofuran (THF)	410	2,400	410	160	U
107-06-2	1,2-Dichloroethane	410	1,300	410	140	U
71-43-2	Benzene	<b>48,000</b>	1,300	410	190	
56-23-5	Carbon Tetrachloride	410	1,200	410	180	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-250-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-011

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00075 Liter(s)

Test Notes:

0.00015 Liter(s)

Container ID: 1SS00233

Initial Pressure (psig): -2.77 Final Pressure (psig): 7.14

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>110,000</b>	2,400	830	370	
75-27-4	Bromodichloromethane	410	1,300	410	190	U
79-01-6	Trichloroethene	410	1,200	410	180	U
123-91-1	1,4-Dioxane	410	1,300	410	150	U
142-82-5	n-Heptane	<b>290,000</b>	6,300	3,900	1,000	D
108-10-1	4-Methyl-2-pentanone	410	2,400	410	180	U
108-88-3	Toluene	<b>400,000</b>	6,300	2,100	790	D
591-78-6	2-Hexanone	410	2,400	410	160	U
124-48-1	Dibromochloromethane	410	1,300	410	170	U
106-93-4	1,2-Dibromoethane	<b>5,700</b>	1,300	410	150	
127-18-4	Tetrachloroethene	410	1,300	410	170	U
100-41-4	Ethylbenzene	<b>34,000</b>	1,300	410	180	
179601-23-1	m,p-Xylenes	<b>160,000</b>	2,400	830	340	
75-25-2	Bromoform	780	1,300	780	270	U
100-42-5	Styrene	780	1,300	780	210	U
95-47-6	o-Xylene	<b>44,000</b>	1,300	410	190	
108-67-8	1,3,5-Trimethylbenzene	<b>3,300</b>	1,300	410	190	
95-63-6	1,2,4-Trimethylbenzene	<b>4,000</b>	1,300	410	180	
120-82-1	1,2,4-Trichlorobenzene	780	2,400	780	320	U
91-20-3	Naphthalene	760	1,300	760	320	U
1330-20-7	Xylenes, Total	<b>210,000</b>	2,400	830	340	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-266-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-012

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

0.000050 Liter(s)

Container ID: 1SC00491

Initial Pressure (psig): -3.32 Final Pressure (psig): 7.61

Container Dilution Factor: 1.96

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	5,700	10,000	6,300	2,500	J
75-71-8	Dichlorodifluoromethane (CFC 12)	6,300	10,000	6,300	1,700	U
74-87-3	Chloromethane	6,300	10,000	6,300	1,700	U
75-01-4	Vinyl Chloride	3,300	10,000	3,300	1,100	U
106-99-0	1,3-Butadiene	6,300	10,000	6,300	1,700	U
75-00-3	Chloroethane	6,300	10,000	6,300	1,300	U
64-17-5	Ethanol	16,000	100,000	16,000	7,300	U
67-64-1	Acetone	53,000	100,000	53,000	24,000	U
75-69-4	Trichlorofluoromethane	6,300	10,000	6,300	1,600	U
67-63-0	2-Propanol (Isopropyl Alcohol)	12,000	20,000	12,000	4,300	U
75-09-2	Methylene Chloride	6,300	10,000	6,300	2,900	U
76-13-1	Trichlorotrifluoroethane	3,300	10,000	3,300	1,500	U
75-15-0	Carbon Disulfide	11,000	20,000	11,000	3,100	U
75-34-3	1,1-Dichloroethane	6,500	11,000	6,500	1,500	U
78-93-3	2-Butanone (MEK)	6,300	20,000	6,300	2,200	U
141-78-6	Ethyl Acetate	13,000	20,000	13,000	5,500	U
110-54-3	n-Hexane	2,000,000	20,000	13,000	4,300	D
67-66-3	Chloroform	3,300	10,000	3,300	1,400	U
109-99-9	Tetrahydrofuran (THF)	3,300	20,000	3,300	1,300	U
107-06-2	1,2-Dichloroethane	3,300	10,000	3,300	1,200	U
71-43-2	Benzene	890,000	10,000	3,300	1,500	U
56-23-5	Carbon Tetrachloride	3,300	10,000	3,300	1,500	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV09-266-204

ALS Project ID: P2005743

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005743-012

Test Code: EPA TO-15

Date Collected: 10/5/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

0.000050 Liter(s)

Container ID: 1SC00491

Initial Pressure (psig): -3.32 Final Pressure (psig): 7.61

Container Dilution Factor: 1.96

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2,000,000	20,000	6,700	2,900	
75-27-4	Bromodichloromethane	3,300	10,000	3,300	1,500	U
79-01-6	Trichloroethene	3,300	10,000	3,300	1,400	U
123-91-1	1,4-Dioxane	3,300	10,000	3,300	1,200	U
142-82-5	n-Heptane	1,700,000	20,000	13,000	3,300	D
108-10-1	4-Methyl-2-pentanone	3,300	20,000	3,300	1,400	U
108-88-3	Toluene	2,000,000	10,000	3,300	1,300	
591-78-6	2-Hexanone	3,300	20,000	3,300	1,300	U
124-48-1	Dibromochloromethane	3,300	10,000	3,300	1,400	U
106-93-4	1,2-Dibromoethane	11,000	10,000	3,300	1,200	
127-18-4	Tetrachloroethene	3,300	10,000	3,300	1,400	U
100-41-4	Ethylbenzene	150,000	10,000	3,300	1,500	
179601-23-1	m,p-Xylenes	390,000	20,000	6,700	2,700	
75-25-2	Bromoform	6,300	10,000	6,300	2,200	U
100-42-5	Styrene	6,300	10,000	6,300	1,700	U
95-47-6	o-Xylene	110,000	10,000	3,300	1,500	
108-67-8	1,3,5-Trimethylbenzene	13,000	10,000	3,300	1,500	
95-63-6	1,2,4-Trimethylbenzene	28,000	10,000	3,300	1,500	
120-82-1	1,2,4-Trichlorobenzene	6,300	20,000	6,300	2,500	U
91-20-3	Naphthalene	6,100	10,000	6,100	2,500	U
1330-20-7	Xylenes, Total	490,000	20,000	6,700	2,700	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01294

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.88 Final Pressure (psig): 9.57

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.7	1.6	0.67	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>8.3</b>	2.7	1.6	0.45	
74-87-3	Chloromethane	1.6	2.7	1.6	0.44	U
75-01-4	Vinyl Chloride	0.87	2.7	0.87	0.29	U
106-99-0	1,3-Butadiene	1.6	2.7	1.6	0.45	U
75-00-3	Chloroethane	1.6	2.7	1.6	0.34	U
64-17-5	Ethanol	4.3	27	4.3	1.9	U
67-64-1	Acetone	<b>30</b>	27	14	6.2	
75-69-4	Trichlorofluoromethane	<b>1.8</b>	2.6	1.6	0.42	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	5.1	3.2	1.1	U
75-09-2	Methylene Chloride	1.6	2.7	1.6	0.77	U
76-13-1	Trichlorotrifluoroethane	<b>21</b>	2.7	0.87	0.39	
75-15-0	Carbon Disulfide	<b>11</b>	5.1	2.8	0.82	
75-34-3	1,1-Dichloroethane	1.7	2.8	1.7	0.40	U
78-93-3	2-Butanone (MEK)	<b>1.9</b>	5.1	1.6	0.56	J
141-78-6	Ethyl Acetate	3.3	5.1	3.3	1.4	U
110-54-3	n-Hexane	1.6	2.7	1.6	0.56	U
67-66-3	Chloroform	0.87	2.7	0.87	0.36	U
109-99-9	Tetrahydrofuran (THF)	0.87	5.1	0.87	0.34	U
107-06-2	1,2-Dichloroethane	0.87	2.7	0.87	0.30	U
71-43-2	Benzene	<b>0.44</b>	2.7	0.87	0.39	J
56-23-5	Carbon Tetrachloride	<b>19</b>	2.6	0.87	0.38	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01294

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.88 Final Pressure (psig): 9.57

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	5.1	1.7	0.77	U
75-27-4	Bromodichloromethane	0.87	2.7	0.87	0.39	U
79-01-6	Trichloroethene	0.87	2.6	0.87	0.37	U
123-91-1	1,4-Dioxane	0.87	2.7	0.87	0.32	U
142-82-5	n-Heptane	1.5	2.7	1.6	0.44	J
108-10-1	4-Methyl-2-pentanone	0.87	5.1	0.87	0.37	U
108-88-3	Toluene	1.7	2.7	0.87	0.33	J
591-78-6	2-Hexanone	0.87	5.1	0.87	0.34	U
124-48-1	Dibromochloromethane	0.87	2.7	0.87	0.36	U
106-93-4	1,2-Dibromoethane	0.87	2.7	0.87	0.32	U
127-18-4	Tetrachloroethene	2.8	2.7	0.87	0.35	
100-41-4	Ethylbenzene	0.74	2.7	0.87	0.38	J
179601-23-1	m,p-Xylenes	4.8	5.1	1.7	0.72	J
75-25-2	Bromoform	1.6	2.7	1.6	0.56	U
100-42-5	Styrene	1.6	2.7	1.6	0.44	U
95-47-6	o-Xylene	1.8	2.7	0.87	0.39	J
108-67-8	1,3,5-Trimethylbenzene	1.3	2.7	0.87	0.39	J
95-63-6	1,2,4-Trimethylbenzene	4.5	2.7	0.87	0.38	
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.67	U
91-20-3	Naphthalene	0.94	2.7	1.6	0.67	J
1330-20-7	Xylenes, Total	6.6	5.1	1.7	0.72	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00012

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/20/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.45 Final Pressure (psig): 6.43

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.0	2.4	1.5	0.61	J
75-71-8	Dichlorodifluoromethane (CFC 12)	21	2.4	1.5	0.41	
74-87-3	Chloromethane	0.68	2.4	1.5	0.40	J
75-01-4	Vinyl Chloride	0.80	2.5	0.80	0.27	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	4.1	25	3.9	1.7	J
67-64-1	Acetone	38	24	13	5.6	
75-69-4	Trichlorofluoromethane	3.0	2.4	1.5	0.38	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.7	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	53	2.5	0.80	0.36	
75-15-0	Carbon Disulfide	38	4.7	2.5	0.75	
75-34-3	1,1-Dichloroethane	1.6	2.5	1.6	0.37	U
78-93-3	2-Butanone (MEK)	5.7	4.7	1.5	0.52	
141-78-6	Ethyl Acetate	3.1	4.7	3.1	1.3	U
110-54-3	n-Hexane	1.2	2.4	1.5	0.52	J
67-66-3	Chloroform	0.80	2.5	0.80	0.33	U
109-99-9	Tetrahydrofuran (THF)	2.0	4.7	0.80	0.31	J
107-06-2	1,2-Dichloroethane	0.80	2.4	0.80	0.28	U
71-43-2	Benzene	1.1	2.4	0.80	0.36	J
56-23-5	Carbon Tetrachloride	51	2.4	0.80	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV111-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-014

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/20/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00012

Initial Pressure (psig): -3.45 Final Pressure (psig): 6.43

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	4.7	1.6	0.71	J
75-27-4	Bromodichloromethane	0.80	2.4	0.80	0.36	U
79-01-6	Trichloroethene	0.80	2.4	0.80	0.34	U
123-91-1	1,4-Dioxane	0.80	2.4	0.80	0.30	U
142-82-5	n-Heptane	3.6	2.4	1.5	0.40	
108-10-1	4-Methyl-2-pentanone	0.80	4.7	0.80	0.34	U
108-88-3	Toluene	2.8	2.4	0.80	0.31	
591-78-6	2-Hexanone	0.80	4.7	0.80	0.31	U
124-48-1	Dibromochloromethane	0.80	2.4	0.80	0.33	U
106-93-4	1,2-Dibromoethane	0.80	2.4	0.80	0.29	U
127-18-4	Tetrachloroethene	6.1	2.4	0.80	0.32	
100-41-4	Ethylbenzene	0.65	2.4	0.80	0.35	J
179601-23-1	m,p-Xylenes	6.9	4.7	1.6	0.66	
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	2.5	2.5	0.80	0.36	J
108-67-8	1,3,5-Trimethylbenzene	1.4	2.5	0.80	0.36	J
95-63-6	1,2,4-Trimethylbenzene	4.4	2.4	0.80	0.35	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	1.2	2.4	1.5	0.61	J
1330-20-7	Xylenes, Total	9.4	4.7	1.6	0.66	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01034

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.90 Final Pressure (psig): 6.93

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.3	2.4	1.5	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	21	2.4	1.5	0.40	
74-87-3	Chloromethane	0.71	2.4	1.5	0.39	J
75-01-4	Vinyl Chloride	0.78	2.4	0.78	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	15	24	3.8	1.7	J
67-64-1	Acetone	52	24	12	5.5	
75-69-4	Trichlorofluoromethane	3.1	2.3	1.5	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.6	2.9	1.0	J
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	53	2.4	0.78	0.35	
75-15-0	Carbon Disulfide	8.5	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	26	4.6	1.5	0.50	
141-78-6	Ethyl Acetate	2.9	4.6	3.0	1.3	J
110-54-3	n-Hexane	2.5	2.4	1.5	0.50	
67-66-3	Chloroform	0.78	2.4	0.78	0.32	U
109-99-9	Tetrahydrofuran (THF)	3.3	4.6	0.78	0.31	J
107-06-2	1,2-Dichloroethane	0.78	2.4	0.78	0.27	U
71-43-2	Benzene	1.5	2.4	0.78	0.35	J
56-23-5	Carbon Tetrachloride	51	2.3	0.78	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-015

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01034

Initial Pressure (psig): -2.90 Final Pressure (psig): 6.93

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	3.0	4.6	1.6	0.69	J
75-27-4	Bromodichloromethane	0.78	2.4	0.78	0.35	U
79-01-6	Trichloroethene	0.78	2.3	0.78	0.33	U
123-91-1	1,4-Dioxane	0.78	2.4	0.78	0.29	U
142-82-5	n-Heptane	7.9	2.4	1.5	0.39	
108-10-1	4-Methyl-2-pentanone	0.78	4.6	0.78	0.33	U
108-88-3	Toluene	5.7	2.4	0.78	0.30	
591-78-6	2-Hexanone	0.78	4.6	0.78	0.30	U
124-48-1	Dibromochloromethane	0.78	2.4	0.78	0.32	U
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.28	U
127-18-4	Tetrachloroethene	6.2	2.4	0.78	0.32	
100-41-4	Ethylbenzene	1.4	2.4	0.78	0.34	J
179601-23-1	m,p-Xylenes	16	4.6	1.6	0.64	
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	5.5	2.4	0.78	0.35	
108-67-8	1,3,5-Trimethylbenzene	2.9	2.4	0.78	0.35	
95-63-6	1,2,4-Trimethylbenzene	9.6	2.4	0.78	0.34	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	2.0	2.4	1.4	0.59	J
1330-20-7	Xylenes, Total	21	4.6	1.6	0.64	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00084

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00050 Liter(s)

Initial Pressure (psig): -3.86 Final Pressure (psig): 5.89

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1,200	2,000	1,200	490	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1,200	2,000	1,200	330	U
74-87-3	Chloromethane	1,200	2,000	1,200	330	U
75-01-4	Vinyl Chloride	650	2,000	650	220	U
106-99-0	1,3-Butadiene	1,200	2,000	1,200	330	U
75-00-3	Chloroethane	1,200	2,000	1,200	250	U
64-17-5	Ethanol	3,200	20,000	3,200	1,400	U
67-64-1	Acetone	10,000	20,000	10,000	4,600	U
75-69-4	Trichlorofluoromethane	1,200	1,900	1,200	310	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,400	3,800	2,400	840	U
75-09-2	Methylene Chloride	1,200	2,000	1,200	570	U
76-13-1	Trichlorotrifluoroethane	650	2,000	650	290	U
75-15-0	Carbon Disulfide	2,100	3,800	2,100	610	U
75-34-3	1,1-Dichloroethane	1,300	2,100	1,300	300	U
78-93-3	2-Butanone (MEK)	1,200	3,800	1,200	420	U
141-78-6	Ethyl Acetate	2,500	3,800	2,500	1,100	U
110-54-3	n-Hexane	<b>4,900</b>	2,000	1,200	420	
67-66-3	Chloroform	650	2,000	650	270	U
109-99-9	Tetrahydrofuran (THF)	650	3,800	650	250	U
107-06-2	1,2-Dichloroethane	650	2,000	650	220	U
71-43-2	Benzene	<b>2,400</b>	2,000	650	290	
56-23-5	Carbon Tetrachloride	650	1,900	650	280	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-016

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00050 Liter(s)

Test Notes:

Container ID: 1SC00084

Initial Pressure (psig): -3.86 Final Pressure (psig): 5.89

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>3,200</b>	3,800	1,300	570	<b>J</b>
75-27-4	Bromodichloromethane	650	2,000	650	290	<b>U</b>
79-01-6	Trichloroethene	650	1,900	650	270	<b>U</b>
123-91-1	1,4-Dioxane	650	2,000	650	240	<b>U</b>
142-82-5	n-Heptane	<b>1,700</b>	2,000	1,200	320	<b>J</b>
108-10-1	4-Methyl-2-pentanone	650	3,800	650	280	<b>U</b>
108-88-3	Toluene	<b>1,200</b>	2,000	650	250	<b>J</b>
591-78-6	2-Hexanone	650	3,800	650	250	<b>U</b>
124-48-1	Dibromochloromethane	650	2,000	650	270	<b>U</b>
106-93-4	1,2-Dibromoethane	650	2,000	650	240	<b>U</b>
127-18-4	Tetrachloroethene	650	2,000	650	260	<b>U</b>
100-41-4	Ethylbenzene	650	2,000	650	290	<b>U</b>
179601-23-1	m,p-Xylenes	1,300	3,800	1,300	530	<b>U</b>
75-25-2	Bromoform	1,200	2,000	1,200	420	<b>U</b>
100-42-5	Styrene	1,200	2,000	1,200	330	<b>U</b>
95-47-6	o-Xylene	650	2,000	650	290	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	650	2,000	650	290	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	650	2,000	650	280	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	1,200	3,800	1,200	490	<b>U</b>
91-20-3	Naphthalene	1,200	2,000	1,200	490	<b>U</b>
1330-20-7	Xylenes, Total	1,300	3,800	1,300	530	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00186

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.0035 Liter(s)

0.0010 Liter(s)

Initial Pressure (psig): -4.45 Final Pressure (psig): 6.48

Container Dilution Factor: 2.07

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	440	310	190	77	
75-71-8	Dichlorodifluoromethane (CFC 12)	190	310	190	51	U
74-87-3	Chloromethane	190	310	190	51	U
75-01-4	Vinyl Chloride	100	310	100	34	U
106-99-0	1,3-Butadiene	190	310	190	52	U
75-00-3	Chloroethane	190	310	190	39	U
64-17-5	Ethanol	490	3,100	490	220	U
67-64-1	Acetone	1,600	3,100	1,600	710	U
75-69-4	Trichlorofluoromethane	190	300	190	48	U
67-63-0	2-Propanol (Isopropyl Alcohol)	370	590	370	130	U
75-09-2	Methylene Chloride	190	310	190	89	U
76-13-1	Trichlorotrifluoroethane	270	310	100	45	J
75-15-0	Carbon Disulfide	320	590	320	95	U
75-34-3	1,1-Dichloroethane	200	320	200	46	U
78-93-3	2-Butanone (MEK)	190	590	190	65	U
141-78-6	Ethyl Acetate	380	590	380	170	U
110-54-3	n-Hexane	92,000	1,100	660	230	D
67-66-3	Chloroform	100	310	100	42	U
109-99-9	Tetrahydrofuran (THF)	100	590	100	40	U
107-06-2	1,2-Dichloroethane	100	310	100	35	U
71-43-2	Benzene	74,000	1,100	350	160	D
56-23-5	Carbon Tetrachloride	300	300	100	44	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV111-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-017

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0035 Liter(s)

Test Notes:

0.0010 Liter(s)

Container ID: 1SS00186

Initial Pressure (psig): -4.45 Final Pressure (psig): 6.48

Container Dilution Factor: 2.07

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	100,000	590	200	89	
75-27-4	Bromodichloromethane	100	310	100	46	U
79-01-6	Trichloroethene	100	300	100	43	U
123-91-1	1,4-Dioxane	100	310	100	37	U
142-82-5	n-Heptane	52,000	310	190	50	
108-10-1	4-Methyl-2-pentanone	100	590	100	43	U
108-88-3	Toluene	4,700	310	100	38	
591-78-6	2-Hexanone	100	590	100	39	U
124-48-1	Dibromochloromethane	100	310	100	41	U
106-93-4	1,2-Dibromoethane	100	310	100	37	U
127-18-4	Tetrachloroethene	100	310	100	41	U
100-41-4	Ethylbenzene	230	310	100	44	J
179601-23-1	m,p-Xylenes	2,700	590	200	83	
75-25-2	Bromoform	190	310	190	65	U
100-42-5	Styrene	190	310	190	51	U
95-47-6	o-Xylene	5,700	310	100	46	
108-67-8	1,3,5-Trimethylbenzene	1,900	310	100	46	
95-63-6	1,2,4-Trimethylbenzene	350	310	100	44	
120-82-1	1,2,4-Trichlorobenzene	190	590	190	77	U
91-20-3	Naphthalene	180	310	180	77	U
1330-20-7	Xylenes, Total	8,400	590	200	83	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00069

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00015 Liter(s)

Initial Pressure (psig): -2.90 Final Pressure (psig): 8.11

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>6,000</b>	6,700	4,100	1,700	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	4,100	6,700	4,100	1,100	<b>U</b>
74-87-3	Chloromethane	4,100	6,700	4,100	1,100	<b>U</b>
75-01-4	Vinyl Chloride	2,200	6,800	2,200	730	<b>U</b>
106-99-0	1,3-Butadiene	4,100	6,700	4,100	1,100	<b>U</b>
75-00-3	Chloroethane	4,100	6,700	4,100	850	<b>U</b>
64-17-5	Ethanol	11,000	68,000	11,000	4,800	<b>U</b>
67-64-1	Acetone	35,000	67,000	35,000	15,000	<b>U</b>
75-69-4	Trichlorofluoromethane	4,100	6,600	4,100	1,000	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	8,100	13,000	8,100	2,800	<b>U</b>
75-09-2	Methylene Chloride	4,100	6,700	4,100	1,900	<b>U</b>
76-13-1	Trichlorotrifluoroethane	2,200	6,800	2,200	980	<b>U</b>
75-15-0	Carbon Disulfide	6,900	13,000	6,900	2,100	<b>U</b>
75-34-3	1,1-Dichloroethane	4,200	6,900	4,200	1,000	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>6,200</b>	13,000	4,100	1,400	<b>J</b>
141-78-6	Ethyl Acetate	8,400	13,000	8,400	3,600	<b>U</b>
110-54-3	n-Hexane	<b>1,300,000</b>	6,700	4,100	1,400	
67-66-3	Chloroform	2,200	6,800	2,200	910	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	2,200	13,000	2,200	860	<b>U</b>
107-06-2	1,2-Dichloroethane	2,200	6,700	2,200	760	<b>U</b>
71-43-2	Benzene	<b>210,000</b>	6,700	2,200	990	
56-23-5	Carbon Tetrachloride	2,200	6,600	2,200	950	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-018

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SC00069

Initial Pressure (psig): -2.90 Final Pressure (psig): 8.11

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1,200,000</b>	13,000	4,400	1,900	
75-27-4	Bromodichloromethane	2,200	6,700	2,200	990	U
79-01-6	Trichloroethene	<b>2,600</b>	6,600	2,200	930	J
123-91-1	1,4-Dioxane	2,200	6,700	2,200	810	U
142-82-5	n-Heptane	<b>660,000</b>	6,700	4,100	1,100	
108-10-1	4-Methyl-2-pentanone	2,200	13,000	2,200	940	U
108-88-3	Toluene	<b>94,000</b>	6,700	2,200	840	
591-78-6	2-Hexanone	2,200	13,000	2,200	850	U
124-48-1	Dibromochloromethane	2,200	6,700	2,200	900	U
106-93-4	1,2-Dibromoethane	2,200	6,700	2,200	800	U
127-18-4	Tetrachloroethene	2,200	6,700	2,200	890	U
100-41-4	Ethylbenzene	<b>7,500</b>	6,700	2,200	970	
179601-23-1	m,p-Xylenes	<b>21,000</b>	13,000	4,400	1,800	
75-25-2	Bromoform	4,100	6,800	4,100	1,400	U
100-42-5	Styrene	4,100	6,700	4,100	1,100	U
95-47-6	o-Xylene	<b>17,000</b>	6,800	2,200	990	
108-67-8	1,3,5-Trimethylbenzene	<b>2,500</b>	6,800	2,200	990	J
95-63-6	1,2,4-Trimethylbenzene	2,200	6,700	2,200	950	U
120-82-1	1,2,4-Trichlorobenzene	4,100	13,000	4,100	1,700	U
91-20-3	Naphthalene	4,000	6,700	4,000	1,700	U
1330-20-7	Xylenes, Total	<b>38,000</b>	13,000	4,400	1,800	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00931

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -3.52 Final Pressure (psig): 7.36

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	61	34	21	8.5	
75-71-8	Dichlorodifluoromethane (CFC 12)	250	34	21	5.7	
74-87-3	Chloromethane	51	34	21	5.6	
75-01-4	Vinyl Chloride	8.5	35	11	3.7	J
106-99-0	1,3-Butadiene	21	34	21	5.8	U
75-00-3	Chloroethane	21	34	21	4.3	U
64-17-5	Ethanol	55	350	55	24	U
67-64-1	Acetone	180	340	180	79	U
75-69-4	Trichlorofluoromethane	24	33	21	5.3	J
67-63-0	2-Propanol (Isopropyl Alcohol)	41	66	41	14	U
75-09-2	Methylene Chloride	21	34	21	9.9	U
76-13-1	Trichlorotrifluoroethane	190	35	11	5.0	
75-15-0	Carbon Disulfide	180	66	35	11	
75-34-3	1,1-Dichloroethane	22	35	22	5.1	U
78-93-3	2-Butanone (MEK)	21	66	21	7.2	U
141-78-6	Ethyl Acetate	43	66	43	18	U
110-54-3	n-Hexane	1,900	34	21	7.2	
67-66-3	Chloroform	11	35	11	4.7	U
109-99-9	Tetrahydrofuran (THF)	27	66	11	4.4	J
107-06-2	1,2-Dichloroethane	11	34	11	3.9	U
71-43-2	Benzene	1,200	34	11	5.1	
56-23-5	Carbon Tetrachloride	11	33	11	4.9	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV111-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

ALS Sample ID: P2005743-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00931

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -3.52 Final Pressure (psig): 7.36

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2,300	66	22	9.9	
75-27-4	Bromodichloromethane	11	34	11	5.1	U
79-01-6	Trichloroethene	11	33	11	4.7	U
123-91-1	1,4-Dioxane	11	34	11	4.1	U
142-82-5	n-Heptane	2,000	34	21	5.6	
108-10-1	4-Methyl-2-pentanone	11	66	11	4.8	U
108-88-3	Toluene	2,600	34	11	4.3	
591-78-6	2-Hexanone	11	66	11	4.3	U
124-48-1	Dibromochloromethane	11	34	11	4.6	U
106-93-4	1,2-Dibromoethane	11	34	11	4.1	U
127-18-4	Tetrachloroethene	11	34	11	4.5	U
100-41-4	Ethylbenzene	90	34	11	4.9	
179601-23-1	m,p-Xylenes	250	66	22	9.2	
75-25-2	Bromoform	21	35	21	7.2	U
100-42-5	Styrene	21	34	21	5.6	U
95-47-6	o-Xylene	72	35	11	5.1	
108-67-8	1,3,5-Trimethylbenzene	8.1	35	11	5.1	J
95-63-6	1,2,4-Trimethylbenzene	10	34	11	4.9	J
120-82-1	1,2,4-Trichlorobenzene	21	66	21	8.5	U
91-20-3	Naphthalene	20	34	20	8.5	U
1330-20-7	Xylenes, Total	320	66	22	9.2	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201021-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201021-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 10/5 - 10/6/20

Analyst: Wida Ang

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 10/20 - 10/21/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201020-MB	98	99	108	70-130	
Method Blank	P201020-MB	102	99	108	70-130	
Method Blank	P201021-MB	102	99	108	70-130	
Lab Control Sample	P201020-LCS	97	97	107	70-130	
Lab Control Sample	P201020-LCS	103	94	105	70-130	
Lab Control Sample	P201021-LCS	101	95	106	70-130	
Duplicate Lab Control Sample	P201020-DLCS	98	97	107	70-130	
Duplicate Lab Control Sample	P201020-DLCS	102	96	106	70-130	
Duplicate Lab Control Sample	P201021-DLCS	101	96	107	70-130	
SV04-050-604	P2005743-001	98	96	113	70-130	
SV04-050-204	P2005743-002	98	91	110	70-130	
SV04-100-204	P2005743-003	97	97	111	70-130	
SV04-250-204	P2005743-004	97	99	113	70-130	
SV04-300-204	P2005743-005	101	96	99	70-130	
SV08-050-204	P2005743-006	97	71	89	70-130	
SV08-100-204	P2005743-007	103	84	109	70-130	
SV08-250-204	P2005743-008	103	95	105	70-130	
SV09-050-204	P2005743-009	103	97	106	70-130	
SV09-100-204	P2005743-010	102	92	102	70-130	
SV09-250-204	P2005743-011	102	82	93	70-130	
SV09-266-204	P2005743-012	102	98	108	70-130	
SV111-025-204	P2005743-013	103	98	110	70-130	
SV111-050-204	P2005743-014	103	98	110	70-130	
SV111-050-604	P2005743-015	102	97	109	70-130	
SV111-150-204	P2005743-016	104	99	107	70-130	
SV111-250-204	P2005743-017	103	71	98	70-130	
SV111-350-204	P2005743-018	102	97	107	70-130	
SV111-450-204	P2005743-019	102	97	107	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
115-07-1	Propene	210	177	173		<b>84</b>	<b>82</b>	57-136	2	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	183	180		<b>87</b>	<b>86</b>	59-128	1	25
74-87-3	Chloromethane	206	206	200		<b>100</b>	<b>97</b>	59-132	3	25
75-01-4	Vinyl Chloride	208	200	194		<b>96</b>	<b>93</b>	64-127	3	25
106-99-0	1,3-Butadiene	210	204	203		<b>97</b>	<b>97</b>	66-134	0	25
75-00-3	Chloroethane	204	190	185		<b>93</b>	<b>91</b>	63-127	2	25
64-17-5	Ethanol	998	809	802		<b>81</b>	<b>80</b>	59-125	1	25
67-64-1	Acetone	1,030	857	841		<b>83</b>	<b>82</b>	58-128	1	25
75-69-4	Trichlorofluoromethane	204	173	170		<b>85</b>	<b>83</b>	62-126	2	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	401	394		<b>98</b>	<b>97</b>	52-125	1	25
75-09-2	Methylene Chloride	208	188	185		<b>90</b>	<b>89</b>	62-115	1	25
76-13-1	Trichlorotrifluoroethane	214	194	193		<b>91</b>	<b>90</b>	66-126	1	25
75-15-0	Carbon Disulfide	428	350	346		<b>82</b>	<b>81</b>	57-134	1	25
75-34-3	1,1-Dichloroethane	212	187	185		<b>88</b>	<b>87</b>	68-126	1	25
78-93-3	2-Butanone (MEK)	412	411	408		<b>100</b>	<b>99</b>	67-130	1	25
141-78-6	Ethyl Acetate	422	526	523		<b>125</b>	<b>124</b>	65-128	0.8	25
110-54-3	n-Hexane	212	182	180		<b>86</b>	<b>85</b>	63-120	1	25
67-66-3	Chloroform	214	182	180		<b>85</b>	<b>84</b>	68-123	1	25
109-99-9	Tetrahydrofuran (THF)	400	353	351		<b>88</b>	<b>88</b>	64-123	0	25
107-06-2	1,2-Dichloroethane	208	191	190		<b>92</b>	<b>91</b>	65-128	1	25
71-43-2	Benzene	204	182	179		<b>89</b>	<b>88</b>	69-119	1	25
56-23-5	Carbon Tetrachloride	210	174	171		<b>83</b>	<b>81</b>	68-132	2	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	373	371		<b>90</b>	<b>89</b>	70-117	1	25
75-27-4	Bromodichloromethane	210	190	189		<b>90</b>	<b>90</b>	72-128	0	25
79-01-6	Trichloroethene	206	188	187		<b>91</b>	<b>91</b>	71-123	0	25
123-91-1	1,4-Dioxane	208	211	208		<b>101</b>	<b>100</b>	71-122	1	25
142-82-5	n-Heptane	210	189	187		<b>90</b>	<b>89</b>	69-123	1	25
108-10-1	4-Methyl-2-pentanone	416	422	418		<b>101</b>	<b>100</b>	67-130	1	25
108-88-3	Toluene	206	176	173		<b>85</b>	<b>84</b>	66-119	1	25
591-78-6	2-Hexanone	404	422	416		<b>104</b>	<b>103</b>	62-128	1	25
124-48-1	Dibromochloromethane	210	195	191		<b>93</b>	<b>91</b>	70-130	2	25
106-93-4	1,2-Dibromoethane	208	199	196		<b>96</b>	<b>94</b>	74-122	2	25
127-18-4	Tetrachloroethene	206	181	178		<b>88</b>	<b>86</b>	66-124	2	25
100-41-4	Ethylbenzene	206	182	180		<b>88</b>	<b>87</b>	70-124	1	25
179601-23-1	m,p-Xylenes	412	351	346		<b>85</b>	<b>84</b>	61-134	1	25
75-25-2	Bromoform	208	201	198		<b>97</b>	<b>95</b>	66-139	2	25
100-42-5	Styrene	206	199	197		<b>97</b>	<b>96</b>	73-127	1	25
95-47-6	o-Xylene	206	180	177		<b>87</b>	<b>86</b>	67-125	1	25
108-67-8	1,3,5-Trimethylbenzene	206	174	172		<b>84</b>	<b>83</b>	67-130	1	25
95-63-6	1,2,4-Trimethylbenzene	204	183	180		<b>90</b>	<b>88</b>	66-132	2	25
120-82-1	1,2,4-Trichlorobenzene	388	378	374		<b>97</b>	<b>96</b>	55-142	1	25
91-20-3	Naphthalene	198	206	204		<b>104</b>	<b>103</b>	57-138	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	µg/m <sup>3</sup>	LCS	DLCS	µg/m <sup>3</sup>	LCS	DLCS	Acceptance RPD	
115-07-1	Propene	210	210	181	175	86	83	57-136	4	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	210	186	180	89	86	59-128	3	25
74-87-3	Chloromethane	206	206	198	192	96	93	59-132	3	25
75-01-4	Vinyl Chloride	208	208	199	193	96	93	64-127	3	25
106-99-0	1,3-Butadiene	210	210	207	200	99	95	66-134	4	25
75-00-3	Chloroethane	204	204	183	178	90	87	63-127	3	25
64-17-5	Ethanol	998	998	822	801	82	80	59-125	2	25
67-64-1	Acetone	1,030	1,030	871	848	85	82	58-128	4	25
75-69-4	Trichlorofluoromethane	204	204	181	175	89	86	62-126	3	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	408	409	399	100	98	52-125	2	25
75-09-2	Methylene Chloride	208	208	186	183	89	88	62-115	1	25
76-13-1	Trichlorotrifluoroethane	214	214	196	194	92	91	66-126	1	25
75-15-0	Carbon Disulfide	428	428	353	351	82	82	57-134	0	25
75-34-3	1,1-Dichloroethane	212	212	193	188	91	89	68-126	2	25
78-93-3	2-Butanone (MEK)	412	412	419	413	102	100	67-130	2	25
141-78-6	Ethyl Acetate	422	422	541	530	128	126	65-128	2	25
110-54-3	n-Hexane	212	212	187	186	88	88	63-120	0	25
67-66-3	Chloroform	214	214	188	184	88	86	68-123	2	25
109-99-9	Tetrahydrofuran (THF)	400	400	357	354	89	89	64-123	0	25
107-06-2	1,2-Dichloroethane	208	208	202	197	97	95	65-128	2	25
71-43-2	Benzene	204	204	182	180	89	88	69-119	1	25
56-23-5	Carbon Tetrachloride	210	210	180	177	86	84	68-132	2	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	371	372	89	89	70-117	0	25	
75-27-4	Bromodichloromethane	210	192	192	91	91	72-128	0	25	
79-01-6	Trichloroethene	206	187	185	91	90	71-123	1	25	
123-91-1	1,4-Dioxane	208	208	208	100	100	71-122	0	25	
142-82-5	n-Heptane	210	190	189	90	90	69-123	0	25	
108-10-1	4-Methyl-2-pentanone	416	426	427	102	103	67-130	1	25	
108-88-3	Toluene	206	172	172	83	83	66-119	0	25	
591-78-6	2-Hexanone	404	421	427	104	106	62-128	2	25	
124-48-1	Dibromochloromethane	210	189	191	90	91	70-130	1	25	
106-93-4	1,2-Dibromoethane	208	192	193	92	93	74-122	1	25	
127-18-4	Tetrachloroethene	206	178	175	86	85	66-124	1	25	
100-41-4	Ethylbenzene	206	181	179	88	87	70-124	1	25	
179601-23-1	m,p-Xylenes	412	353	348	86	84	61-134	2	25	
75-25-2	Bromoform	208	198	195	95	94	66-139	1	25	
100-42-5	Styrene	206	197	195	96	95	73-127	1	25	
95-47-6	o-Xylene	206	180	178	87	86	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	206	171	174	83	84	67-130	1	25	
95-63-6	1,2,4-Trimethylbenzene	204	181	181	89	89	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	388	372	372	96	96	55-142	0	25	
91-20-3	Naphthalene	198	200	203	101	103	57-138	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201021-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$			Limits	Limit	
115-07-1	Propene	210	188	179		<b>90</b>	<b>85</b>	57-136	6	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	186	180		<b>89</b>	<b>86</b>	59-128	3	25
74-87-3	Chloromethane	206	196	192		<b>95</b>	<b>93</b>	59-132	2	25
75-01-4	Vinyl Chloride	208	200	196		<b>96</b>	<b>94</b>	64-127	2	25
106-99-0	1,3-Butadiene	210	209	203		<b>100</b>	<b>97</b>	66-134	3	25
75-00-3	Chloroethane	204	187	181		<b>92</b>	<b>89</b>	63-127	3	25
64-17-5	Ethanol	998	828	802		<b>83</b>	<b>80</b>	59-125	4	25
67-64-1	Acetone	1,030	864	834		<b>84</b>	<b>81</b>	58-128	4	25
75-69-4	Trichlorofluoromethane	204	176	172		<b>86</b>	<b>84</b>	62-126	2	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	402	393		<b>99</b>	<b>96</b>	52-125	3	25
75-09-2	Methylene Chloride	208	187	183		<b>90</b>	<b>88</b>	62-115	2	25
76-13-1	Trichlorotrifluoroethane	214	194	193		<b>91</b>	<b>90</b>	66-126	1	25
75-15-0	Carbon Disulfide	428	354	348		<b>83</b>	<b>81</b>	57-134	2	25
75-34-3	1,1-Dichloroethane	212	191	187		<b>90</b>	<b>88</b>	68-126	2	25
78-93-3	2-Butanone (MEK)	412	417	409		<b>101</b>	<b>99</b>	67-130	2	25
141-78-6	Ethyl Acetate	422	538	523		<b>127</b>	<b>124</b>	65-128	2	25
110-54-3	n-Hexane	212	188	184		<b>89</b>	<b>87</b>	63-120	2	25
67-66-3	Chloroform	214	186	182		<b>87</b>	<b>85</b>	68-123	2	25
109-99-9	Tetrahydrofuran (THF)	400	358	351		<b>90</b>	<b>88</b>	64-123	2	25
107-06-2	1,2-Dichloroethane	208	199	195		<b>96</b>	<b>94</b>	65-128	2	25
71-43-2	Benzene	204	182	177		<b>89</b>	<b>87</b>	69-119	2	25
56-23-5	Carbon Tetrachloride	210	177	173		<b>84</b>	<b>82</b>	68-132	2	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005743  
 ALS Sample ID: P201021-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	376	367		90	88	70-117	2	25	
75-27-4	Bromodichloromethane	210	193	189		92	90	72-128	2	25	
79-01-6	Trichloroethene	206	189	185		92	90	71-123	2	25	
123-91-1	1,4-Dioxane	208	212	206		102	99	71-122	3	25	
142-82-5	n-Heptane	210	190	186		90	89	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	416	428	418		103	100	67-130	3	25	
108-88-3	Toluene	206	173	171		84	83	66-119	1	25	
591-78-6	2-Hexanone	404	425	420		105	104	62-128	1	25	
124-48-1	Dibromochloromethane	210	191	190		91	90	70-130	1	25	
106-93-4	1,2-Dibromoethane	208	194	191		93	92	74-122	1	25	
127-18-4	Tetrachloroethene	206	177	175		86	85	66-124	1	25	
100-41-4	Ethylbenzene	206	180	177		87	86	70-124	1	25	
179601-23-1	m,p-Xylenes	412	348	344		84	83	61-134	1	25	
75-25-2	Bromoform	208	197	195		95	94	66-139	1	25	
100-42-5	Styrene	206	195	193		95	94	73-127	1	25	
95-47-6	o-Xylene	206	179	177		87	86	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	206	173	170		84	83	67-130	1	25	
95-63-6	1,2,4-Trimethylbenzene	204	182	179		89	88	66-132	1	25	
120-82-1	1,2,4-Trichlorobenzene	388	372	370		96	95	55-142	1	25	
91-20-3	Naphthalene	198	202	201		102	102	57-138	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005743  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 10202001.D  
Analyst: Wida Ang Date Analyzed: 10/20/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 00:03  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	126646	11.21	550005	13.32	254798	17.63
<b>Upper Limit</b>	177304	11.54	770007	13.65	356717	17.96
<b>Lower Limit</b>	75988	10.88	330003	12.99	152879	17.30

## Client Sample ID

Client Sample ID	IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
01 Method Blank	124169	11.18	245379
02 Lab Control Sample	125359	11.20	249541
03 Duplicate Lab Control Sample	125880	11.21	253231
04 SV04-100-204	112840	11.18	224628
05 SV04-250-204	114078	11.18	221756
06 SV04-050-604	111012	11.18	219257
07 SV04-050-204	111415	11.18	220094
08 SV08-050-204	108803	11.18	293122
09 SV04-300-204	118590	11.18	243807
10 SV08-100-204	126454	11.18	216532
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005743  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 10202033.D  
Analyst: Wida Ang Date Analyzed: 10/20/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 19:44  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)						
	AREA	#	RT	#	AREA	#	RT	#			
<b>24 Hour Standard</b>	121256		11.21		519589		13.32		252583		17.63
<b>Upper Limit</b>	169758		11.54		727425		13.65		353616		17.96
<b>Lower Limit</b>	72754		10.88		311753		12.99		151550		17.30

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)			
Client Sample ID	Description	AREA	RT	AREA	RT	AREA	RT
01	Method Blank	118379	11.18	514144	13.31	237416	17.63
02	Lab Control Sample	114936	11.21	502669	13.32	241738	17.63
03	Duplicate Lab Control Sample	119193	11.21	517550	13.32	245305	17.63
04	SV111-025-204	113964	11.18	497971	13.31	230910	17.63
05	SV111-050-204	116302	11.18	510338	13.31	236222	17.63
06	SV111-050-604	116863	11.19	512042	13.31	238782	17.63
07	SV111-450-204	123334	11.18	537444	13.31	251042	17.63
08	SV08-250-204	113284	11.18	499094	13.31	233628	17.63
09	SV09-050-204	114506	11.18	502400	13.31	230769	17.63
10	SV09-100-204	115106	11.19	506358	13.32	236641	17.63
11	SV09-250-204	113368	11.18	503300	13.31	270292	17.63
12	SV09-250-204 (Dilution)	113099	11.18	494177	13.31	229102	17.63
13	SV09-266-204 (Dilution)	113687	11.18	499575	13.31	227939	17.63
14	SV09-266-204	115682	11.19	511572	13.32	233140	17.63
15	SV111-150-204	113485	11.18	503193	13.31	228818	17.63
16	SV111-250-204	114704	11.19	502220	13.32	254384	17.63
17	SV111-250-204 (Dilution)	113333	11.18	488775	13.31	232031	17.63
18	SV111-350-204	113533	11.18	497520	13.31	229870	17.63
19							
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

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# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005743  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 10212001.D  
Analyst: Wida Ang Date Analyzed: 10/21/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 19:30  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	116464	11.20	503468	13.32	235911	17.63
<b>Upper Limit</b>	163050	11.53	704855	13.65	330275	17.96
<b>Lower Limit</b>	69878	10.87	302081	12.99	141547	17.30

## Client Sample ID

Client Sample ID	IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
01 Method Blank	114148 11.18	502035 13.31	227690 17.63
02 Lab Control Sample	115192 11.20	501627 13.32	237174 17.63
03 Duplicate Lab Control Sample	116622 11.21	508666 13.32	239166 17.63
04 SV08-050-204 (Dilution)	113947 11.18	500651 13.31	232937 17.63
05			
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IS1 (BCM) = Bromochloromethane

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# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



2655 Park Center Dr., Suite A  
Simi Valley, CA 93065  
T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

November 2, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 12, 2020. For your reference, these analyses have been assigned our service request number P2005744.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*Kate Kaneko*  
Nov 02, 2020, 1:29 pm

Kate Kaneko  
Project Manager

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RIGHT SOLUTIONS | RIGHT PARTNER



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 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2005744

## CASE NARRATIVE

The samples were received intact under chain of custody on October 12, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2005744-001,006dup,013,015,020	Propene
P2005744-001,002,003,004,017	Acetone
P2005744-002,007,009,010,016,017	Ethanol

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*



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 Simi Valley, CA 93065  
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[www.alsglobal.com](http://www.alsglobal.com)

## ALS Environmental - Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlabs.com/search-accredited-labs">http://www.pjlabs.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/ga/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/ga/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2005744

Date Received: 10/12/2020  
 Time Received: 11:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	2nd Pi (psig)	2nd Pf (psig)	TO-15 - VOC Cans
SV114-025-204	P2005744-001	Air	10/6/2020	12:47	1SC00317	-3.21	6.19	-0.01	7.58	X
SV114-050-204	P2005744-002	Air	10/6/2020	12:50	1SC00076	-3.03	8.39	0.25	8.00	X
SV114-150-204	P2005744-003	Air	10/6/2020	12:53	1SC00247	-3.06	7.00	-0.01	8.34	X
SV114-250-604	P2005744-004	Air	10/6/2020	12:57	1SC00877	-2.94	8.27			X
SV114-250-204	P2005744-005	Air	10/6/2020	12:57	1SS01050	-3.31	7.05	0.96	7.18	X
SV114-350-204	P2005744-006	Air	10/6/2020	13:01	1SS00075	-4.99	6.34			X
SV114-450-204	P2005744-007	Air	10/6/2020	13:10	1SC01103	-3.59	5.33			X
SV116-025-204	P2005744-008	Air	10/6/2020	08:19	1SS00946	-3.89	6.24			X
SV116-050-204	P2005744-009	Air	10/6/2020	08:23	1SS00053	-2.99	7.36			X
SV116-150-204	P2005744-010	Air	10/6/2020	08:25	1SC00726	-2.10	8.21	0.37	7.60	X
SV116-250-204	P2005744-011	Air	10/6/2020	08:29	1SS01002	-3.98	6.71			X
SV116-350-204	P2005744-012	Air	10/6/2020	08:32	1SS00885	-3.47	7.11			X
SV116-350-604	P2005744-013	Air	10/6/2020	08:32	1SS00895	-3.90	6.44			X
SV116-450-204	P2005744-014	Air	10/6/2020	08:42	1SS00968	-2.02	7.11			X
SV117-025-204	P2005744-015	Air	10/6/2020	09:09	1SC00502	-2.09	6.71			X
SV117-050-204	P2005744-016	Air	10/6/2020	09:11	1SS00259	-3.16	6.49			X
SV117-150-204	P2005744-017	Air	10/6/2020	09:16	1SS01011	-2.63	6.37			X
SV117-250-204	P2005744-018	Air	10/6/2020	09:20	1SS01052	-2.43	7.07	0.16	4.55	X
SV117-350-204	P2005744-019	Air	10/6/2020	09:23	1SC00570	-3.05	5.99			X
SV117-450-204	P2005744-020	Air	10/6/2020	09:34	1SC01055	-3.06	7.33			X



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-07**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **2005744**

**Company Name & Address (Reporting Information)**  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

**Project Manager / Project Chemist**  
 Devon Jerdinovic (505) 715-4248 / Pam Moss (303) 590-9143  
 Email Address for Result Reporting

**Tara Lamond:** [tiamond@eaest.com](mailto:tiamond@eaest.com)  
**Amanda Smith:** [asmith@eaest.com](mailto:asmith@eaest.com)  
**Pam Moss:** [pmoss@eaest.com](mailto:pmoss@eaest.com)

**Project Name**  
 Kirtland AFB Bulk Fuels Facility

**Project Number**  
 62735DM02

**P.O. # / Billing Information**  
 17682

**Sampler (Print & Sign)**  
*Stephen Newman*

**ALS Contact:** Kate Karneko  
 1 (805) 577-2089

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure <sup>+</sup> Hg	Canister End Pressure <sup>+</sup> Hg/psig	Sample Volume	Comments e.g. Actual Preservative or specific instructions
SV114-025-204	1	10/6/2020	1247	1SC00317	NA	-25.0	-2.0	1L	TO-15 Project Specific List
SV114-050-204	2	10/6/2020	1250	1SC00176	NA	-25.0	0.0	1L	
SV114-150-204	3	10/6/2020	1253	1SC00247	NA	-27.0	-2.0	1L	
SV114-250-604	4	10/6/2020	1257	1SC00877	NA	-27.5	0.0	1L	
SV114-250-204	5	10/6/2020	1257	1SS01050	NA	-27.0	-2.0	1L	
SV114-350-204	6	10/6/2020	1301	1SS00075	NA	-25.0	-4.5	1L	
SV114-450-204	7	10/6/2020	1310	1SC01103	NA	-25.0	-0.5	1L	
SV116-025-204	8	10/6/2020	0819	1SS00946	NA	-25.5	-5.0	1L	
SV116-050-204	9	10/6/2020	0823	1SS00053	NA	-27.0	-3.5	1L	
SV116-150-204	10	10/6/2020	0825	1SC00726	NA	-25.5	-2.0	1L	

FedEx Tracking Number: **1028 3402 2217**

Shipping information: Box number **4** of **6**

Report Tier Levels - please select

Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) \_\_\_\_\_ Date: **10/7/20** Time: **1500**

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

EDD required: **Yes**  
 Type: **ERPIMS / EQUIS**

Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_ Date: **10-12-20** Time: **1100**

Chain of Custody Seal: (Circle) **INTACT**

Project Requirements: QAPP

Cooler / Blank Temperature **NA** °C



**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-08**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **18065744**

ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Company Name & Address (Reporting Information)  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

Project Manager / Project Chemist  
 Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143  
 Email Address for Result Reporting  
 Tara Lamond: [tiamond@eaest.com](mailto:tiamond@eaest.com)  
 Amanda Smith: [asmith@eaest.com](mailto:asmith@eaest.com)  
 Pam Moss: [pmoss@eaest.com](mailto:pmoss@eaest.com)

Project Name  
 Kirtland AFB Bulk Fuels Facility

Project Number  
 62735DM02

P.O. # / Billing Information  
 17682

Sampler (Print & Sign)  
*Stephen Newman*

Analysis Method  
 TO-15 Project Specific List

Comments  
 e.g. Actual  
 Preservative or  
 specific instructions

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments
SV116-250-204	11	10/6/2020	0829	1SS01002	NA	-25.0	-5.0	1L	None
SV116-350-204	12	10/6/2020	0832	1SS00885	NA	-25.0	-4.0	1L	None
SV116-350-604	13	10/6/2020	0832	1SS00895	NA	-26.0	-4.5	1L	None
SV116-450-204	14	10/6/2020	0842	1SS00968	NA	-25.0	-1.0	1L	None
SV117-025-204	15	10/6/2020	0909	1SC00502	NA	-26.0	-1.0	1L	None
SV117-050-204	16	10/6/2020	0911	1SS00259	NA	-25.0	-3.0	1L	None
SV117-150-204	17	10/6/2020	0916	1SS01011	NA	-27.5	-4.0	1L	None
SV117-250-204	18	10/6/2020	0920	1SS01052	NA	-25.0	-0.5	1L	None
SV117-350-204	19	10/6/2020	0923	1SC00570	NA	-22.5	0.0	1L	None
SV117-450-204	20	10/6/2020	0934	1SC01055	NA	-25.0	-2.5	1L	None

FedEX Tracking Number: **1028 3402 2217**

Shipping information: Box number **4** of **6**

Report Tier Levels - please select  
 Tier I (Results + QC Summaries) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) *[Signature]* Date: **10/7/20** Time: **1500**

Relinquished by: (Signature) *[Signature]* Date: **10/7/20** Time: **1500**

EDD required: **Yes**  
 Type: **ERPIMS / EQUIS**

Received by: (Signature) *[Signature]* Date: **10/12/20** Time: **1100**

Chain of Custody Seal: (Circle)  
 INTACT  BROKEN  ABSENT

Project Requirements: QAPP  
 Cooler / Blank Temperature **NA** °C

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2005744  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/12/20 Date opened: 10/12/20 by: ADAVID

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |    |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
|----|---|-------------------------------------|--------------------------|-------------------------------------|
| 1  | Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2  | Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3  | Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4  | Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5  | Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6  | Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7  | Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8  | Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Location of seal(s)? <u>Top and bottom of box sealing.</u> Sealing Lid?                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9  | Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Is there a client indication that the submitted samples are <b>pH</b> preserved?                              | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?     | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 | <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2005744-001.01	1.0 L Source Can					
P2005744-002.01	1.0 L Source Can					
P2005744-003.01	1.0 L Source Can					
P2005744-004.01	1.0 L Source Can					
P2005744-005.01	1.0 L Source Silonite Canister					
P2005744-006.01	1.0 L Source Silonite Canister					
P2005744-007.01	1.0 L Source Can					
P2005744-008.01	1.0 L Source Silonite Canister					
P2005744-009.01	1.0 L Source Silonite Canister					
P2005744-010.01	1.0 L Source Can					
P2005744-011.01	1.0 L Source Silonite Canister					
P2005744-012.01	1.0 L Source Silonite Canister					
P2005744-013.01	1.0 L Source Silonite Canister					
P2005744-014.01	1.0 L Source Silonite Canister					
P2005744-015.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV114-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00317

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/23/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.21    Final Pressure (psig): 6.19  
 Initial Pressure 2 (psig): -0.01    Final Pressure 2 (psig): 7.58

Container Dilution Factor: 2.76

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.5	2.1	1.3	0.52	J
75-71-8	Dichlorodifluoromethane (CFC 12)	19	0.73	0.45	0.12	
74-87-3	Chloromethane	1.1	1.7	1.1	0.29	U
75-01-4	Vinyl Chloride	0.46	1.4	0.46	0.15	U
106-99-0	1,3-Butadiene	1.0	1.6	1.0	0.27	U
75-00-3	Chloroethane	0.84	1.4	0.84	0.17	U
64-17-5	Ethanol	14	19	3.0	1.4	J
67-64-1	Acetone	48	15	7.8	3.5	
75-69-4	Trichlorofluoromethane	2.3	0.63	0.39	0.099	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.9	2.8	1.8	0.62	J
75-09-2	Methylene Chloride	0.39	1.0	0.64	0.30	J
76-13-1	Trichlorotrifluoroethane	1.7	0.48	0.15	0.068	
75-15-0	Carbon Disulfide	1.4	2.2	1.2	0.35	J
75-34-3	1,1-Dichloroethane	0.56	0.92	0.56	0.13	U
78-93-3	2-Butanone (MEK)	16	2.3	0.75	0.26	
141-78-6	Ethyl Acetate	46	1.9	1.2	0.54	
110-54-3	n-Hexane	0.43	1.0	0.63	0.22	J
67-66-3	Chloroform	0.10	0.75	0.24	0.10	J
109-99-9	Tetrahydrofuran (THF)	0.78	2.3	0.40	0.16	J
107-06-2	1,2-Dichloroethane	0.29	0.89	0.29	0.10	U
71-43-2	Benzene	1.2	1.1	0.37	0.17	
56-23-5	Carbon Tetrachloride	1.2	0.56	0.19	0.081	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-001

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00317

Initial Pressure (psig): -3.21    Final Pressure (psig): 6.19  
 Initial Pressure 2 (psig): -0.01    Final Pressure 2 (psig): 7.58

Container Dilution Factor: 2.76

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.37</b>	2.0	0.68	0.30	<b>J</b>
75-27-4	Bromodichloromethane	0.18	0.54	0.18	0.079	<b>U</b>
79-01-6	Trichloroethene	0.22	0.66	0.22	0.092	<b>U</b>
123-91-1	1,4-Dioxane	0.33	1.0	0.33	0.12	<b>U</b>
142-82-5	n-Heptane	<b>0.69</b>	0.88	0.54	0.14	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>0.41</b>	1.7	0.29	0.12	<b>J</b>
108-88-3	Toluene	<b>6.8</b>	0.95	0.31	0.12	
591-78-6	2-Hexanone	<b>1.5</b>	1.7	0.29	0.11	<b>J</b>
124-48-1	Dibromochloromethane	0.14	0.42	0.14	0.057	<b>U</b>
106-93-4	1,2-Dibromoethane	0.15	0.47	0.15	0.056	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.15</b>	0.53	0.17	0.070	<b>J</b>
100-41-4	Ethylbenzene	<b>0.95</b>	0.83	0.27	0.12	
179601-23-1	m,p-Xylenes	<b>3.2</b>	1.6	0.54	0.22	
75-25-2	Bromoform	0.21	0.35	0.21	0.073	<b>U</b>
100-42-5	Styrene	0.52	0.84	0.52	0.14	<b>U</b>
95-47-6	o-Xylene	<b>1.1</b>	0.84	0.27	0.12	
108-67-8	1,3,5-Trimethylbenzene	<b>0.24</b>	0.74	0.24	0.11	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.91</b>	0.73	0.24	0.10	
120-82-1	1,2,4-Trichlorobenzene	0.30	0.93	0.30	0.12	<b>U</b>
91-20-3	Naphthalene	<b>0.46</b>	0.68	0.41	0.17	<b>J</b>
1330-20-7	Xylenes, Total	<b>4.3</b>	1.6	0.54	0.22	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV114-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-002

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00076

Initial Pressure (psig): -3.03    Final Pressure (psig): 8.39  
 Initial Pressure 2 (psig): 0.25    Final Pressure 2 (psig): 8.00

Container Dilution Factor: 3.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.4	2.3	1.4	0.57	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>29</b>	0.79	0.49	0.13	
74-87-3	Chloromethane	1.2	1.9	1.2	0.31	U
75-01-4	Vinyl Chloride	0.50	1.6	0.50	0.17	U
106-99-0	1,3-Butadiene	1.1	1.8	1.1	0.30	U
75-00-3	Chloroethane	0.91	1.5	0.91	0.19	U
64-17-5	Ethanol	<b>4.2</b>	21	3.3	1.5	J
67-64-1	Acetone	<b>13</b>	16	8.5	3.8	J
75-69-4	Trichlorofluoromethane	<b>3.3</b>	0.68	0.43	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.9	3.1	1.9	0.67	U
75-09-2	Methylene Chloride	0.69	1.1	0.69	0.32	U
76-13-1	Trichlorotrifluoroethane	<b>2.4</b>	0.52	0.17	0.074	
75-15-0	Carbon Disulfide	<b>1.3</b>	2.4	1.3	0.39	J
75-34-3	1,1-Dichloroethane	0.61	1.0	0.61	0.14	U
78-93-3	2-Butanone (MEK)	<b>3.2</b>	2.5	0.81	0.28	
141-78-6	Ethyl Acetate	1.4	2.1	1.4	0.58	U
110-54-3	n-Hexane	0.68	1.1	0.68	0.23	U
67-66-3	Chloroform	<b>0.14</b>	0.81	0.26	0.11	J
109-99-9	Tetrahydrofuran (THF)	<b>55</b>	2.5	0.43	0.17	
107-06-2	1,2-Dichloroethane	0.32	0.96	0.32	0.11	U
71-43-2	Benzene	<b>0.41</b>	1.2	0.40	0.18	J
56-23-5	Carbon Tetrachloride	<b>2.2</b>	0.61	0.20	0.088	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-002

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00076

Initial Pressure (psig): -3.03    Final Pressure (psig): 8.39  
 Initial Pressure 2 (psig): 0.25    Final Pressure 2 (psig): 8.00

Container Dilution Factor: 3.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.74	2.2	0.74	0.33	U
75-27-4	Bromodichloromethane	0.19	0.58	0.19	0.086	U
79-01-6	Trichloroethene	0.24	0.71	0.24	0.10	U
123-91-1	1,4-Dioxane	0.35	1.1	0.35	0.13	U
142-82-5	n-Heptane	<b>0.25</b>	0.95	0.59	0.16	J
108-10-1	4-Methyl-2-pentanone	0.31	1.8	0.31	0.13	U
108-88-3	Toluene	<b>2.2</b>	1.0	0.34	0.13	
591-78-6	2-Hexanone	0.31	1.8	0.31	0.12	U
124-48-1	Dibromochloromethane	0.15	0.46	0.15	0.062	U
106-93-4	1,2-Dibromoethane	0.17	0.51	0.17	0.061	U
127-18-4	Tetrachloroethene	<b>0.21</b>	0.58	0.19	0.076	J
100-41-4	Ethylbenzene	<b>0.36</b>	0.90	0.29	0.13	J
179601-23-1	m,p-Xylenes	<b>1.4</b>	1.7	0.59	0.24	J
75-25-2	Bromoform	0.23	0.38	0.23	0.080	U
100-42-5	Styrene	0.56	0.92	0.56	0.15	U
95-47-6	o-Xylene	<b>0.49</b>	0.92	0.29	0.13	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.14</b>	0.81	0.26	0.12	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.50</b>	0.79	0.26	0.11	J
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.44	0.74	0.44	0.19	U
1330-20-7	Xylenes, Total	<b>1.9</b>	1.7	0.59	0.24	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV114-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-003

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00247

Initial Pressure (psig): -3.06    Final Pressure (psig): 7.00  
 Initial Pressure 2 (psig): -0.01    Final Pressure 2 (psig): 8.34

Container Dilution Factor: 2.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.4	2.2	1.4	0.55	U
75-71-8	Dichlorodifluoromethane (CFC 12)	45	0.77	0.47	0.13	
74-87-3	Chloromethane	1.1	1.8	1.1	0.30	U
75-01-4	Vinyl Chloride	0.49	1.5	0.49	0.16	U
106-99-0	1,3-Butadiene	1.1	1.7	1.1	0.29	U
75-00-3	Chloroethane	0.89	1.4	0.89	0.18	U
64-17-5	Ethanol	4.5	21	3.2	1.4	J
67-64-1	Acetone	11	16	8.3	3.7	J
75-69-4	Trichlorofluoromethane	3.4	0.66	0.42	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.9	3.0	1.9	0.65	U
75-09-2	Methylene Chloride	0.67	1.1	0.67	0.32	U
76-13-1	Trichlorotrifluoroethane	5.0	0.51	0.16	0.072	
75-15-0	Carbon Disulfide	2.1	2.3	1.3	0.38	J
75-34-3	1,1-Dichloroethane	0.60	0.97	0.60	0.14	U
78-93-3	2-Butanone (MEK)	1.8	2.5	0.79	0.27	J
141-78-6	Ethyl Acetate	1.3	2.0	1.3	0.57	U
110-54-3	n-Hexane	0.66	1.1	0.66	0.23	U
67-66-3	Chloroform	0.12	0.79	0.25	0.11	J
109-99-9	Tetrahydrofuran (THF)	1.8	2.5	0.42	0.17	J
107-06-2	1,2-Dichloroethane	0.31	0.94	0.31	0.11	U
71-43-2	Benzene	0.36	1.2	0.39	0.18	J
56-23-5	Carbon Tetrachloride	2.9	0.59	0.20	0.086	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-003

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00247

Initial Pressure (psig): -3.06    Final Pressure (psig): 7.00  
 Initial Pressure 2 (psig): -0.01    Final Pressure 2 (psig): 8.34

Container Dilution Factor: 2.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.72	2.1	0.72	0.32	U
75-27-4	Bromodichloromethane	0.19	0.57	0.19	0.084	U
79-01-6	Trichloroethene	0.23	0.69	0.23	0.098	U
123-91-1	1,4-Dioxane	0.34	1.1	0.34	0.13	U
142-82-5	n-Heptane	<b>0.23</b>	0.93	0.57	0.15	J
108-10-1	4-Methyl-2-pentanone	0.30	1.8	0.30	0.13	U
108-88-3	Toluene	<b>1.8</b>	1.0	0.33	0.13	
591-78-6	2-Hexanone	0.30	1.8	0.30	0.12	U
124-48-1	Dibromochloromethane	0.15	0.45	0.15	0.060	U
106-93-4	1,2-Dibromoethane	0.16	0.49	0.16	0.059	U
127-18-4	Tetrachloroethene	<b>0.18</b>	0.56	0.18	0.074	J
100-41-4	Ethylbenzene	<b>0.26</b>	0.87	0.29	0.13	J
179601-23-1	m,p-Xylenes	<b>1.0</b>	1.7	0.57	0.24	J
75-25-2	Bromoform	0.23	0.37	0.23	0.078	U
100-42-5	Styrene	0.55	0.89	0.55	0.15	U
95-47-6	o-Xylene	<b>0.33</b>	0.89	0.29	0.13	J
108-67-8	1,3,5-Trimethylbenzene	0.25	0.79	0.25	0.11	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.34</b>	0.77	0.25	0.11	J
120-82-1	1,2,4-Trichlorobenzene	0.31	0.98	0.31	0.13	U
91-20-3	Naphthalene	<b>0.27</b>	0.72	0.43	0.18	J
1330-20-7	Xylenes, Total	<b>1.3</b>	1.7	0.57	0.24	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV114-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-004

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00877

Initial Pressure (psig): -2.94 Final Pressure (psig): 8.27

Container Dilution Factor: 1.95

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.0	1.5	0.91	0.37	J
75-71-8	Dichlorodifluoromethane (CFC 12)	69	0.51	0.32	0.086	
74-87-3	Chloromethane	4.0	1.2	0.76	0.20	
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.71	1.1	0.71	0.19	U
75-00-3	Chloroethane	0.40	0.96	0.59	0.12	J
64-17-5	Ethanol	6.1	14	2.1	0.96	J
67-64-1	Acetone	19	11	5.5	2.5	
75-69-4	Trichlorofluoromethane	5.8	0.44	0.28	0.070	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.57	2.0	1.2	0.44	J
75-09-2	Methylene Chloride	0.22	0.73	0.45	0.21	J
76-13-1	Trichlorotrifluoroethane	3.7	0.34	0.11	0.048	
75-15-0	Carbon Disulfide	2.8	1.6	0.85	0.25	
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	U
78-93-3	2-Butanone (MEK)	4.3	1.7	0.53	0.18	
141-78-6	Ethyl Acetate	0.88	1.4	0.88	0.38	U
110-54-3	n-Hexane	0.96	0.72	0.44	0.15	
67-66-3	Chloroform	1.5	0.53	0.17	0.071	
109-99-9	Tetrahydrofuran (THF)	1.0	1.7	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.17	0.63	0.20	0.071	J
71-43-2	Benzene	1.4	0.79	0.26	0.12	
56-23-5	Carbon Tetrachloride	5.8	0.40	0.13	0.057	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-250-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-004

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00877

Initial Pressure (psig): -2.94 Final Pressure (psig): 8.27

Container Dilution Factor: 1.95

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.57	1.4	0.48	0.21	J
75-27-4	Bromodichloromethane	0.11	0.38	0.12	0.056	J
79-01-6	Trichloroethene	0.093	0.46	0.15	0.065	J
123-91-1	1,4-Dioxane	0.24	0.70	0.23	0.085	J
142-82-5	n-Heptane	1.6	0.62	0.38	0.10	J
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.087	J
108-88-3	Toluene	8.0	0.67	0.22	0.084	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.079	U
124-48-1	Dibromochloromethane	0.080	0.30	0.097	0.040	J
106-93-4	1,2-Dibromoethane	0.043	0.33	0.11	0.039	J
127-18-4	Tetrachloroethene	0.11	0.37	0.12	0.050	J
100-41-4	Ethylbenzene	0.95	0.58	0.19	0.084	J
179601-23-1	m,p-Xylenes	4.0	1.1	0.38	0.16	J
75-25-2	Bromoform	0.24	0.25	0.15	0.052	J
100-42-5	Styrene	0.37	0.60	0.37	0.099	U
95-47-6	o-Xylene	1.1	0.60	0.19	0.086	J
108-67-8	1,3,5-Trimethylbenzene	0.27	0.53	0.17	0.076	J
95-63-6	1,2,4-Trimethylbenzene	0.92	0.52	0.17	0.073	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.66	0.21	0.085	U
91-20-3	Naphthalene	0.42	0.48	0.29	0.12	J
1330-20-7	Xylenes, Total	5.1	1.1	0.38	0.16	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-005

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01050

Initial Pressure (psig): -3.31    Final Pressure (psig): 7.05  
 Initial Pressure 2 (psig): 0.96    Final Pressure 2 (psig): 7.18

Container Dilution Factor: 2.67

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.2	2.0	1.2	0.50	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>70</b>	0.70	0.43	0.12	
74-87-3	Chloromethane	1.0	1.7	1.0	0.28	U
75-01-4	Vinyl Chloride	0.44	1.4	0.44	0.15	U
106-99-0	1,3-Butadiene	0.97	1.6	0.97	0.27	U
75-00-3	Chloroethane	0.81	1.3	0.81	0.17	U
64-17-5	Ethanol	<b>1.5</b>	19	2.9	1.3	J
67-64-1	Acetone	<b>3.6</b>	15	7.6	3.4	J
75-69-4	Trichlorofluoromethane	<b>5.8</b>	0.61	0.38	0.096	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.7	2.7	1.7	0.60	U
75-09-2	Methylene Chloride	0.62	1.0	0.62	0.29	U
76-13-1	Trichlorotrifluoroethane	<b>3.7</b>	0.46	0.15	0.066	
75-15-0	Carbon Disulfide	<b>1.8</b>	2.1	1.2	0.34	J
75-34-3	1,1-Dichloroethane	0.54	0.89	0.54	0.13	U
78-93-3	2-Butanone (MEK)	<b>0.59</b>	2.3	0.72	0.25	J
141-78-6	Ethyl Acetate	1.2	1.9	1.2	0.52	U
110-54-3	n-Hexane	0.61	0.99	0.61	0.21	U
67-66-3	Chloroform	<b>1.2</b>	0.72	0.23	0.097	
109-99-9	Tetrahydrofuran (THF)	<b>0.58</b>	2.3	0.38	0.15	J
107-06-2	1,2-Dichloroethane	0.28	0.86	0.28	0.097	U
71-43-2	Benzene	<b>0.34</b>	1.1	0.36	0.16	J
56-23-5	Carbon Tetrachloride	<b>5.7</b>	0.54	0.18	0.079	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-005

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01050

Initial Pressure (psig): -3.31    Final Pressure (psig): 7.05  
 Initial Pressure 2 (psig): 0.96    Final Pressure 2 (psig): 7.18

Container Dilution Factor: 2.67

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.66	1.9	0.66	0.29	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	<b>0.094</b>	0.63	0.21	0.089	J
123-91-1	1,4-Dioxane	0.32	0.96	0.32	0.12	U
142-82-5	n-Heptane	<b>0.24</b>	0.85	0.52	0.14	J
108-10-1	4-Methyl-2-pentanone	0.28	1.6	0.28	0.12	U
108-88-3	Toluene	<b>1.6</b>	0.92	0.30	0.12	U
591-78-6	2-Hexanone	0.28	1.6	0.28	0.11	U
124-48-1	Dibromochloromethane	0.13	0.41	0.13	0.055	U
106-93-4	1,2-Dibromoethane	0.15	0.45	0.15	0.054	U
127-18-4	Tetrachloroethene	<b>0.099</b>	0.51	0.17	0.068	J
100-41-4	Ethylbenzene	<b>0.22</b>	0.80	0.26	0.12	J
179601-23-1	m,p-Xylenes	<b>0.88</b>	1.5	0.52	0.22	J
75-25-2	Bromoform	0.21	0.34	0.21	0.071	U
100-42-5	Styrene	0.50	0.82	0.50	0.13	U
95-47-6	o-Xylene	<b>0.30</b>	0.81	0.26	0.12	J
108-67-8	1,3,5-Trimethylbenzene	0.23	0.72	0.23	0.10	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.30</b>	0.71	0.23	0.10	J
120-82-1	1,2,4-Trichlorobenzene	0.29	0.90	0.29	0.12	U
91-20-3	Naphthalene	0.39	0.66	0.39	0.17	U
1330-20-7	Xylenes, Total	<b>1.2</b>	1.5	0.52	0.22	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-006

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.075 Liter(s)

Test Notes:

Container ID: 1SS00075

Initial Pressure (psig): -4.99 Final Pressure (psig): 6.34

Container Dilution Factor: 2.17

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3.5	8.7	5.4	2.2	J
75-71-8	Dichlorodifluoromethane (CFC 12)	530	3.0	1.9	0.51	
74-87-3	Chloromethane	4.5	7.3	4.5	1.2	U
75-01-4	Vinyl Chloride	1.9	6.0	1.9	0.65	U
106-99-0	1,3-Butadiene	4.2	6.8	4.2	1.2	U
75-00-3	Chloroethane	3.5	5.7	3.5	0.72	U
64-17-5	Ethanol	13	81	13	5.7	U
67-64-1	Acetone	33	63	33	15	U
75-69-4	Trichlorofluoromethane	74	2.6	1.6	0.42	
67-63-0	2-Propanol (Isopropyl Alcohol)	7.4	12	7.4	2.6	U
75-09-2	Methylene Chloride	2.7	4.3	2.7	1.2	U
76-13-1	Trichlorotrifluoroethane	21	2.0	0.64	0.29	
75-15-0	Carbon Disulfide	5.0	9.3	5.0	1.5	U
75-34-3	1,1-Dichloroethane	2.4	3.9	2.4	0.56	U
78-93-3	2-Butanone (MEK)	3.1	9.8	3.1	1.1	U
141-78-6	Ethyl Acetate	5.2	8.0	5.2	2.2	U
110-54-3	n-Hexane	2.6	4.3	2.6	0.90	U
67-66-3	Chloroform	1.0	3.1	1.0	0.42	U
109-99-9	Tetrahydrofuran (THF)	1.7	9.8	1.7	0.66	U
107-06-2	1,2-Dichloroethane	1.2	3.7	1.2	0.42	U
71-43-2	Benzene	3.5	4.7	1.5	0.70	J
56-23-5	Carbon Tetrachloride	1.3	2.3	0.78	0.34	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-006

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.075 Liter(s)

Test Notes:

Container ID: 1SS00075

Initial Pressure (psig): -4.99 Final Pressure (psig): 6.34

Container Dilution Factor: 2.17

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>4.3</b>	8.4	2.9	1.3	<b>J</b>
75-27-4	Bromodichloromethane	0.73	2.2	0.73	0.33	<b>U</b>
79-01-6	Trichloroethene	0.92	2.7	0.92	0.39	<b>U</b>
123-91-1	1,4-Dioxane	1.4	4.2	1.4	0.51	<b>U</b>
142-82-5	n-Heptane	2.3	3.7	2.3	0.60	<b>U</b>
108-10-1	4-Methyl-2-pentanone	1.2	7.1	1.2	0.52	<b>U</b>
108-88-3	Toluene	<b>1.7</b>	4.0	1.3	0.50	<b>J</b>
591-78-6	2-Hexanone	1.2	7.1	1.2	0.47	<b>U</b>
124-48-1	Dibromochloromethane	0.58	1.8	0.58	0.24	<b>U</b>
106-93-4	1,2-Dibromoethane	0.64	2.0	0.64	0.23	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.80</b>	2.2	0.73	0.29	<b>J</b>
100-41-4	Ethylbenzene	1.1	3.5	1.1	0.50	<b>U</b>
179601-23-1	m,p-Xylenes	<b>1.1</b>	6.7	2.3	0.93	<b>J</b>
75-25-2	Bromoform	0.90	1.5	0.90	0.31	<b>U</b>
100-42-5	Styrene	2.2	3.5	2.2	0.58	<b>U</b>
95-47-6	o-Xylene	<b>0.60</b>	3.5	1.1	0.51	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	1.0	3.1	1.0	0.45	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	1.0	3.1	1.0	0.44	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	1.2	3.9	1.2	0.51	<b>U</b>
91-20-3	Naphthalene	1.7	2.9	1.7	0.72	<b>U</b>
1330-20-7	Xylenes, Total	<b>1.7</b>	6.7	2.3	0.93	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-007

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00060 Liter(s)

Test Notes:

0.00030 Liter(s)

Container ID: 1SC01103

Initial Pressure (psig): -3.59 Final Pressure (psig): 5.33

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	5,700	910	560	230	
75-71-8	Dichlorodifluoromethane (CFC 12)	690	320	190	53	
74-87-3	Chloromethane	470	760	470	120	U
75-01-4	Vinyl Chloride	200	620	200	67	U
106-99-0	1,3-Butadiene	430	710	430	120	U
75-00-3	Chloroethane	360	590	360	75	U
64-17-5	Ethanol	1,000	8,400	1,300	590	J
67-64-1	Acetone	3,400	6,600	3,400	1,500	U
75-69-4	Trichlorofluoromethane	96	270	170	43	J
67-63-0	2-Propanol (Isopropyl Alcohol)	770	1,200	770	270	U
75-09-2	Methylene Chloride	280	450	280	130	U
76-13-1	Trichlorotrifluoroethane	31	210	67	30	J
75-15-0	Carbon Disulfide	520	960	520	150	U
75-34-3	1,1-Dichloroethane	240	400	240	58	U
78-93-3	2-Butanone (MEK)	430	1,000	330	110	J
141-78-6	Ethyl Acetate	540	830	540	230	U
110-54-3	n-Hexane	37,000	440	270	94	
67-66-3	Chloroform	100	330	100	44	U
109-99-9	Tetrahydrofuran (THF)	170	1,000	170	68	U
107-06-2	1,2-Dichloroethane	130	390	130	44	U
71-43-2	Benzene	4,800	490	160	72	
56-23-5	Carbon Tetrachloride	81	240	81	35	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-007

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00060 Liter(s)

Test Notes:

0.00030 Liter(s)

Container ID: 1SC01103

Initial Pressure (psig): -3.59 Final Pressure (psig): 5.33

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	57,000	870	300	130	
75-27-4	Bromodichloromethane	76	230	76	34	U
79-01-6	Trichloroethene	95	280	95	40	U
123-91-1	1,4-Dioxane	140	430	140	52	U
142-82-5	n-Heptane	87,000	760	470	120	D
108-10-1	4-Methyl-2-pentanone	120	730	120	53	U
108-88-3	Toluene	13,000	410	140	52	
591-78-6	2-Hexanone	120	730	120	48	U
124-48-1	Dibromochloromethane	60	180	60	25	U
106-93-4	1,2-Dibromoethane	90	200	66	24	J
127-18-4	Tetrachloroethene	75	230	75	31	U
100-41-4	Ethylbenzene	1,400	360	120	52	
179601-23-1	m,p-Xylenes	12,000	690	230	97	
75-25-2	Bromoform	93	150	93	32	U
100-42-5	Styrene	230	370	230	61	U
95-47-6	o-Xylene	7,700	370	120	53	
108-67-8	1,3,5-Trimethylbenzene	1,600	320	100	47	
95-63-6	1,2,4-Trimethylbenzene	2,000	320	100	45	
120-82-1	1,2,4-Trichlorobenzene	130	400	130	53	U
91-20-3	Naphthalene	100	300	180	74	J
1330-20-7	Xylenes, Total	20,000	690	230	97	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-008

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00946

Initial Pressure (psig): -3.89 Final Pressure (psig): 6.24

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.90	1.5	0.90	0.37	U
75-71-8	Dichlorodifluoromethane (CFC 12)	5.4	0.51	0.31	0.085	
74-87-3	Chloromethane	0.75	1.2	0.75	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	U
75-00-3	Chloroethane	0.59	0.96	0.59	0.12	U
64-17-5	Ethanol	2.1	14	2.1	0.95	U
67-64-1	Acetone	5.5	11	5.5	2.5	U
75-69-4	Trichlorofluoromethane	0.72	0.44	0.28	0.070	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	U
75-09-2	Methylene Chloride	0.45	0.73	0.45	0.21	U
76-13-1	Trichlorotrifluoroethane	1.7	0.34	0.11	0.048	
75-15-0	Carbon Disulfide	0.27	1.6	0.84	0.25	J
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	U
78-93-3	2-Butanone (MEK)	0.53	1.6	0.53	0.18	U
141-78-6	Ethyl Acetate	0.88	1.3	0.88	0.38	U
110-54-3	n-Hexane	0.44	0.72	0.44	0.15	U
67-66-3	Chloroform	0.091	0.53	0.17	0.071	J
109-99-9	Tetrahydrofuran (THF)	0.12	1.6	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.071	U
71-43-2	Benzene	0.26	0.79	0.26	0.12	U
56-23-5	Carbon Tetrachloride	0.25	0.39	0.13	0.057	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-008

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00946

Initial Pressure (psig): -3.89 Final Pressure (psig): 6.24

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.48	1.4	0.48	0.21	U
75-27-4	Bromodichloromethane	0.12	0.38	0.12	0.056	U
79-01-6	Trichloroethene	0.15	0.46	0.15	0.065	U
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.085	U
142-82-5	n-Heptane	0.38	0.62	0.38	0.10	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	<b>0.16</b>	0.67	0.22	0.084	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.078	U
124-48-1	Dibromochloromethane	0.097	0.30	0.097	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	0.12	0.37	0.12	0.049	U
100-41-4	Ethylbenzene	0.19	0.58	0.19	0.084	U
179601-23-1	m,p-Xylenes	0.38	1.1	0.38	0.16	U
75-25-2	Bromoform	0.15	0.25	0.15	0.052	U
100-42-5	Styrene	0.36	0.59	0.36	0.098	U
95-47-6	o-Xylene	0.19	0.59	0.19	0.086	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.52	0.17	0.076	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.18</b>	0.51	0.17	0.073	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	U
91-20-3	Naphthalene	<b>0.18</b>	0.48	0.29	0.12	J
1330-20-7	Xylenes, Total	0.38	1.1	0.38	0.16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV116-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-009

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00053

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.36

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.87	1.4	0.87	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	17	0.49	0.30	0.083	
74-87-3	Chloromethane	0.73	1.2	0.73	0.20	U
75-01-4	Vinyl Chloride	0.31	0.97	0.31	0.10	U
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	U
75-00-3	Chloroethane	0.57	0.93	0.57	0.12	U
64-17-5	Ethanol	2.1	13	2.1	0.92	U
67-64-1	Acetone	5.3	10	5.3	2.4	U
75-69-4	Trichlorofluoromethane	1.7	0.43	0.27	0.068	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.42	U
75-09-2	Methylene Chloride	0.43	0.70	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	4.9	0.33	0.10	0.047	
75-15-0	Carbon Disulfide	1.1	1.5	0.82	0.24	J
75-34-3	1,1-Dichloroethane	0.38	0.63	0.38	0.091	U
78-93-3	2-Butanone (MEK)	0.34	1.6	0.51	0.18	J
141-78-6	Ethyl Acetate	0.85	1.3	0.85	0.37	U
110-54-3	n-Hexane	0.43	0.69	0.43	0.15	U
67-66-3	Chloroform	0.18	0.51	0.16	0.068	J
109-99-9	Tetrahydrofuran (THF)	140	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.60	0.20	0.069	U
71-43-2	Benzene	0.25	0.77	0.25	0.11	U
56-23-5	Carbon Tetrachloride	1.9	0.38	0.13	0.055	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-009

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00053

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.36

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.46	1.4	0.46	0.20	U
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.054	U
79-01-6	Trichloroethene	0.15	0.45	0.15	0.063	U
123-91-1	1,4-Dioxane	0.22	0.68	0.22	0.082	U
142-82-5	n-Heptane	0.37	0.60	0.37	0.098	U
108-10-1	4-Methyl-2-pentanone	0.20	1.1	0.20	0.084	U
108-88-3	Toluene	<b>0.31</b>	0.65	0.21	0.081	J
591-78-6	2-Hexanone	0.20	1.1	0.20	0.076	U
124-48-1	Dibromochloromethane	0.094	0.29	0.094	0.039	U
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	U
127-18-4	Tetrachloroethene	<b>0.11</b>	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	0.18	0.56	0.18	0.081	U
179601-23-1	m,p-Xylenes	<b>0.16</b>	1.1	0.37	0.15	J
75-25-2	Bromoform	0.15	0.24	0.15	0.050	U
100-42-5	Styrene	0.35	0.57	0.35	0.095	U
95-47-6	o-Xylene	0.18	0.57	0.18	0.083	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.14</b>	0.50	0.16	0.071	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.082	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	<b>0.16</b>	1.1	0.37	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-010

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00726

Initial Pressure (psig): -2.10    Final Pressure (psig): 8.21  
 Initial Pressure 2 (psig): 0.37    Final Pressure 2 (psig): 7.60

Container Dilution Factor: 2.69

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.3	2.0	1.3	0.51	U
75-71-8	Dichlorodifluoromethane (CFC 12)	9.7	0.71	0.44	0.12	
74-87-3	Chloromethane	0.67	1.7	1.0	0.28	J
75-01-4	Vinyl Chloride	0.45	1.4	0.45	0.15	U
106-99-0	1,3-Butadiene	0.97	1.6	0.97	0.27	U
75-00-3	Chloroethane	0.82	1.3	0.82	0.17	U
64-17-5	Ethanol	5.8	19	3.0	1.3	J
67-64-1	Acetone	12	15	7.6	3.4	J
75-69-4	Trichlorofluoromethane	0.78	0.61	0.38	0.097	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.7	2.7	1.7	0.60	U
75-09-2	Methylene Chloride	0.62	1.0	0.62	0.29	U
76-13-1	Trichlorotrifluoroethane	1.6	0.47	0.15	0.067	
75-15-0	Carbon Disulfide	2.3	2.2	1.2	0.35	
75-34-3	1,1-Dichloroethane	0.55	0.90	0.55	0.13	U
78-93-3	2-Butanone (MEK)	0.46	2.3	0.73	0.25	J
141-78-6	Ethyl Acetate	0.80	1.9	1.2	0.52	J
110-54-3	n-Hexane	0.61	0.99	0.61	0.21	U
67-66-3	Chloroform	0.14	0.73	0.23	0.098	J
109-99-9	Tetrahydrofuran (THF)	1.3	2.3	0.39	0.15	J
107-06-2	1,2-Dichloroethane	0.28	0.86	0.28	0.098	U
71-43-2	Benzene	0.36	1.1	0.36	0.16	U
56-23-5	Carbon Tetrachloride	0.38	0.55	0.18	0.079	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-010

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00726

Initial Pressure (psig): -2.10    Final Pressure (psig): 8.21  
 Initial Pressure 2 (psig): 0.37    Final Pressure 2 (psig): 7.60

Container Dilution Factor: 2.69

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.66	2.0	0.66	0.29	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.21	0.64	0.21	0.090	U
123-91-1	1,4-Dioxane	0.32	0.97	0.32	0.12	U
142-82-5	n-Heptane	0.53	0.85	0.53	0.14	U
108-10-1	4-Methyl-2-pentanone	0.28	1.6	0.28	0.12	U
108-88-3	Toluene	0.30	0.93	0.30	0.12	U
591-78-6	2-Hexanone	0.28	1.6	0.28	0.11	U
124-48-1	Dibromochloromethane	0.13	0.41	0.13	0.055	U
106-93-4	1,2-Dibromoethane	0.15	0.46	0.15	0.054	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.068	U
100-41-4	Ethylbenzene	0.26	0.81	0.26	0.12	U
179601-23-1	m,p-Xylenes	0.53	1.5	0.53	0.22	U
75-25-2	Bromoform	0.21	0.34	0.21	0.072	U
100-42-5	Styrene	0.51	0.82	0.51	0.14	U
95-47-6	o-Xylene	0.26	0.82	0.26	0.12	U
108-67-8	1,3,5-Trimethylbenzene	0.23	0.73	0.23	0.11	U
95-63-6	1,2,4-Trimethylbenzene	0.23	0.71	0.23	0.10	U
120-82-1	1,2,4-Trichlorobenzene	0.29	0.91	0.29	0.12	U
91-20-3	Naphthalene	0.40	0.67	0.40	0.17	U
1330-20-7	Xylenes, Total	0.53	1.5	0.53	0.22	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-011

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01002

Initial Pressure (psig): -3.98 Final Pressure (psig): 6.71

Container Dilution Factor: 2.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.93	1.5	0.93	0.38	U
75-71-8	Dichlorodifluoromethane (CFC 12)	18	0.53	0.32	0.088	
74-87-3	Chloromethane	0.78	1.3	0.78	0.21	U
75-01-4	Vinyl Chloride	0.33	1.0	0.33	0.11	U
106-99-0	1,3-Butadiene	0.72	1.2	0.72	0.20	U
75-00-3	Chloroethane	0.61	0.99	0.61	0.13	U
64-17-5	Ethanol	2.2	14	2.2	0.98	U
67-64-1	Acetone	5.7	11	5.7	2.5	U
75-69-4	Trichlorofluoromethane	1.7	0.45	0.28	0.072	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.0	1.3	0.45	U
75-09-2	Methylene Chloride	0.46	0.75	0.46	0.22	U
76-13-1	Trichlorotrifluoroethane	8.6	0.35	0.11	0.050	
75-15-0	Carbon Disulfide	2.7	1.6	0.87	0.26	
75-34-3	1,1-Dichloroethane	0.41	0.67	0.41	0.096	U
78-93-3	2-Butanone (MEK)	0.54	1.7	0.54	0.19	U
141-78-6	Ethyl Acetate	0.90	1.4	0.90	0.39	U
110-54-3	n-Hexane	0.45	0.74	0.45	0.16	U
67-66-3	Chloroform	0.12	0.54	0.17	0.073	J
109-99-9	Tetrahydrofuran (THF)	2.1	1.7	0.29	0.11	
107-06-2	1,2-Dichloroethane	0.21	0.64	0.21	0.073	U
71-43-2	Benzene	1.8	0.81	0.27	0.12	
56-23-5	Carbon Tetrachloride	3.3	0.41	0.14	0.059	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-011

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01002

Initial Pressure (psig): -3.98 Final Pressure (psig): 6.71

Container Dilution Factor: 2.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.49	1.5	0.49	0.22	U
75-27-4	Bromodichloromethane	0.13	0.39	0.13	0.057	U
79-01-6	Trichloroethene	0.16	0.47	0.16	0.067	U
123-91-1	1,4-Dioxane	0.24	0.72	0.24	0.087	U
142-82-5	n-Heptane	0.39	0.63	0.39	0.10	U
108-10-1	4-Methyl-2-pentanone	<b>0.29</b>	1.2	0.21	0.089	J
108-88-3	Toluene	<b>2.3</b>	0.69	0.23	0.086	
591-78-6	2-Hexanone	0.21	1.2	0.21	0.081	U
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.041	U
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.040	U
127-18-4	Tetrachloroethene	<b>0.28</b>	0.38	0.13	0.051	J
100-41-4	Ethylbenzene	<b>0.13</b>	0.60	0.20	0.086	J
179601-23-1	m,p-Xylenes	<b>0.25</b>	1.2	0.39	0.16	J
75-25-2	Bromoform	0.15	0.26	0.15	0.053	U
100-42-5	Styrene	0.38	0.61	0.38	0.10	U
95-47-6	o-Xylene	<b>0.35</b>	0.61	0.20	0.089	J
108-67-8	1,3,5-Trimethylbenzene	0.17	0.54	0.17	0.078	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.10</b>	0.53	0.17	0.075	J
120-82-1	1,2,4-Trichlorobenzene	0.22	0.67	0.22	0.088	U
91-20-3	Naphthalene	0.30	0.50	0.30	0.12	U
1330-20-7	Xylenes, Total	<b>0.59</b>	1.2	0.39	0.16	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV116-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-012

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.025 Liter(s)

Test Notes:

Container ID: 1SS00885

Initial Pressure (psig): -3.47 Final Pressure (psig): 7.11

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	110	23	14	5.9	
75-71-8	Dichlorodifluoromethane (CFC 12)	65	8.2	5.0	1.4	
74-87-3	Chloromethane	12	20	12	3.2	U
75-01-4	Vinyl Chloride	5.2	16	5.2	1.7	U
106-99-0	1,3-Butadiene	11	18	11	3.1	U
75-00-3	Chloroethane	9.4	15	9.4	1.9	U
64-17-5	Ethanol	230	220	34	15	
67-64-1	Acetone	88	170	88	39	U
75-69-4	Trichlorofluoromethane	7.4	7.0	4.4	1.1	
67-63-0	2-Propanol (Isopropyl Alcohol)	52	32	20	6.9	
75-09-2	Methylene Chloride	18	12	7.2	3.4	
76-13-1	Trichlorotrifluoroethane	4.0	5.4	1.7	0.77	J
75-15-0	Carbon Disulfide	13	25	13	4.0	U
75-34-3	1,1-Dichloroethane	6.3	10	6.3	1.5	U
78-93-3	2-Butanone (MEK)	77	26	8.4	2.9	
141-78-6	Ethyl Acetate	47	22	14	6.0	
110-54-3	n-Hexane	150	11	7.0	2.4	
67-66-3	Chloroform	1.3	8.4	2.7	1.1	J
109-99-9	Tetrahydrofuran (THF)	2.8	26	4.5	1.8	J
107-06-2	1,2-Dichloroethane	3.3	10	3.3	1.1	U
71-43-2	Benzene	140	13	4.1	1.9	
56-23-5	Carbon Tetrachloride	2.4	6.3	2.1	0.91	J

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-012

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.025 Liter(s)

Test Notes:

Container ID: 1SS00885

Initial Pressure (psig): -3.47 Final Pressure (psig): 7.11

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1,800</b>	23	7.7	3.4	
75-27-4	Bromodichloromethane	2.0	6.0	2.0	0.89	U
79-01-6	Trichloroethene	<b>5.0</b>	7.4	2.5	1.0	J
123-91-1	1,4-Dioxane	3.7	11	3.7	1.4	U
142-82-5	n-Heptane	6.1	9.9	6.1	1.6	U
108-10-1	4-Methyl-2-pentanone	3.2	19	3.2	1.4	U
108-88-3	Toluene	<b>4.7</b>	11	3.5	1.3	J
591-78-6	2-Hexanone	3.2	19	3.2	1.3	U
124-48-1	Dibromochloromethane	1.5	4.7	1.5	0.64	U
106-93-4	1,2-Dibromoethane	1.7	5.3	1.7	0.63	U
127-18-4	Tetrachloroethene	1.9	6.0	1.9	0.79	U
100-41-4	Ethylbenzene	3.0	9.3	3.0	1.3	U
179601-23-1	m,p-Xylenes	<b>3.7</b>	18	6.1	2.5	J
75-25-2	Bromoform	2.4	4.0	2.4	0.83	U
100-42-5	Styrene	5.8	9.5	5.8	1.6	U
95-47-6	o-Xylene	<b>7.5</b>	9.5	3.0	1.4	J
108-67-8	1,3,5-Trimethylbenzene	<b>7.8</b>	8.4	2.7	1.2	J
95-63-6	1,2,4-Trimethylbenzene	2.7	8.2	2.7	1.2	U
120-82-1	1,2,4-Trichlorobenzene	3.3	10	3.3	1.4	U
91-20-3	Naphthalene	4.6	7.7	4.6	1.9	U
1330-20-7	Xylenes, Total	<b>11</b>	18	6.1	2.5	J

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-350-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-013

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.020 Liter(s)

Test Notes:

Container ID: 1SS00895

Initial Pressure (psig): -3.90 Final Pressure (psig): 6.44

Container Dilution Factor: 1.96

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	69	30	18	7.4	
75-71-8	Dichlorodifluoromethane (CFC 12)	37	10	6.3	1.7	
74-87-3	Chloromethane	15	25	15	4.1	U
75-01-4	Vinyl Chloride	6.5	20	6.5	2.2	U
106-99-0	1,3-Butadiene	14	23	14	3.9	U
75-00-3	Chloroethane	12	19	12	2.5	U
64-17-5	Ethanol	43	280	43	19	U
67-64-1	Acetone	110	210	110	50	U
75-69-4	Trichlorofluoromethane	4.1	8.9	5.6	1.4	J
67-63-0	2-Propanol (Isopropyl Alcohol)	25	40	25	8.8	U
75-09-2	Methylene Chloride	9.0	15	9.0	4.2	U
76-13-1	Trichlorotrifluoroethane	2.5	6.8	2.2	0.97	J
75-15-0	Carbon Disulfide	17	31	17	5.0	U
75-34-3	1,1-Dichloroethane	8.0	13	8.0	1.9	U
78-93-3	2-Butanone (MEK)	11	33	11	3.7	U
141-78-6	Ethyl Acetate	18	27	18	7.6	U
110-54-3	n-Hexane	140	14	8.9	3.1	
67-66-3	Chloroform	3.4	11	3.4	1.4	U
109-99-9	Tetrahydrofuran (THF)	5.7	33	5.7	2.2	U
107-06-2	1,2-Dichloroethane	4.1	13	4.1	1.4	U
71-43-2	Benzene	130	16	5.2	2.4	
56-23-5	Carbon Tetrachloride	2.6	7.9	2.6	1.2	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-350-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-013

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.020 Liter(s)

Test Notes:

Container ID: 1SS00895

Initial Pressure (psig): -3.90 Final Pressure (psig): 6.44

Container Dilution Factor: 1.96

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1,800</b>	28	9.7	4.3	
75-27-4	Bromodichloromethane	2.5	7.6	2.5	1.1	U
79-01-6	Trichloroethene	<b>2.8</b>	9.3	3.1	1.3	J
123-91-1	1,4-Dioxane	4.6	14	4.6	1.7	U
142-82-5	n-Heptane	7.7	12	7.7	2.0	U
108-10-1	4-Methyl-2-pentanone	4.1	24	4.1	1.7	U
108-88-3	Toluene	<b>2.9</b>	14	4.4	1.7	J
591-78-6	2-Hexanone	4.1	24	4.1	1.6	U
124-48-1	Dibromochloromethane	2.0	6.0	2.0	0.81	U
106-93-4	1,2-Dibromoethane	2.2	6.6	2.2	0.79	U
127-18-4	Tetrachloroethene	2.5	7.5	2.5	1.0	U
100-41-4	Ethylbenzene	3.8	12	3.8	1.7	U
179601-23-1	m,p-Xylenes	7.7	23	7.7	3.2	U
75-25-2	Bromoform	3.0	5.0	3.0	1.0	U
100-42-5	Styrene	7.4	12	7.4	2.0	U
95-47-6	o-Xylene	<b>6.6</b>	12	3.8	1.7	J
108-67-8	1,3,5-Trimethylbenzene	<b>7.2</b>	11	3.4	1.5	J
95-63-6	1,2,4-Trimethylbenzene	3.4	10	3.4	1.5	U
120-82-1	1,2,4-Trichlorobenzene	4.2	13	4.2	1.7	U
91-20-3	Naphthalene	5.8	9.7	5.8	2.4	U
1330-20-7	Xylenes, Total	<b>6.6</b>	23	7.7	3.2	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-014

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00025 Liter(s)

Test Notes:

Container ID: 1SS00968

Initial Pressure (psig): -2.02 Final Pressure (psig): 7.11

Container Dilution Factor: 1.72

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	6,800	2,100	1,300	520	
75-71-8	Dichlorodifluoromethane (CFC 12)	450	720	450	120	U
74-87-3	Chloromethane	1,100	1,700	1,100	290	U
75-01-4	Vinyl Chloride	460	1,400	460	150	U
106-99-0	1,3-Butadiene	1,000	1,600	1,000	270	U
75-00-3	Chloroethane	830	1,400	830	170	U
64-17-5	Ethanol	3,000	19,000	3,000	1,400	U
67-64-1	Acetone	7,800	15,000	7,800	3,500	U
75-69-4	Trichlorofluoromethane	390	620	390	99	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,800	2,800	1,800	620	U
75-09-2	Methylene Chloride	630	1,000	630	300	U
76-13-1	Trichlorotrifluoroethane	150	480	150	68	U
75-15-0	Carbon Disulfide	1,200	2,200	1,200	350	U
75-34-3	1,1-Dichloroethane	560	920	560	130	U
78-93-3	2-Butanone (MEK)	750	2,300	750	260	U
141-78-6	Ethyl Acetate	1,200	1,900	1,200	530	U
110-54-3	n-Hexane	140,000	1,000	620	210	
67-66-3	Chloroform	240	750	240	100	U
109-99-9	Tetrahydrofuran (THF)	400	2,300	400	160	U
107-06-2	1,2-Dichloroethane	290	880	290	100	U
71-43-2	Benzene	21,000	1,100	370	170	
56-23-5	Carbon Tetrachloride	190	560	190	81	U

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-014

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00025 Liter(s)

Test Notes:

Container ID: 1SS00968

Initial Pressure (psig): -2.02 Final Pressure (psig): 7.11

Container Dilution Factor: 1.72

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	200,000	2,000	680	300	
75-27-4	Bromodichloromethane	170	530	170	79	U
79-01-6	Trichloroethene	220	650	220	92	U
123-91-1	1,4-Dioxane	320	990	320	120	U
142-82-5	n-Heptane	160,000	870	540	140	
108-10-1	4-Methyl-2-pentanone	290	1,700	290	120	U
108-88-3	Toluene	37,000	950	310	120	
591-78-6	2-Hexanone	290	1,700	290	110	U
124-48-1	Dibromochloromethane	140	420	140	57	U
106-93-4	1,2-Dibromoethane	150	470	150	56	J
127-18-4	Tetrachloroethene	170	530	170	70	U
100-41-4	Ethylbenzene	2,900	820	270	120	
179601-23-1	m,p-Xylenes	12,000	1,600	540	220	
75-25-2	Bromoform	210	350	210	73	U
100-42-5	Styrene	520	840	520	140	U
95-47-6	o-Xylene	9,200	840	270	120	
108-67-8	1,3,5-Trimethylbenzene	1,600	740	240	110	
95-63-6	1,2,4-Trimethylbenzene	1,400	730	240	100	
120-82-1	1,2,4-Trichlorobenzene	300	930	300	120	U
91-20-3	Naphthalene	410	680	410	170	U
1330-20-7	Xylenes, Total	22,000	1,600	540	220	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-015

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00502

Initial Pressure (psig): -2.09 Final Pressure (psig): 6.71

Container Dilution Factor: 1.70

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.49</b>	1.3	0.79	0.32	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>4.6</b>	0.45	0.28	0.075	
74-87-3	Chloromethane	0.66	1.1	0.66	0.18	<b>U</b>
75-01-4	Vinyl Chloride	0.28	0.88	0.28	0.095	<b>U</b>
106-99-0	1,3-Butadiene	0.62	1.0	0.62	0.17	<b>U</b>
75-00-3	Chloroethane	0.52	0.84	0.52	0.11	<b>U</b>
64-17-5	Ethanol	<b>4.5</b>	12	1.9	0.83	<b>J</b>
67-64-1	Acetone	<b>19</b>	9.3	4.8	2.1	
75-69-4	Trichlorofluoromethane	<b>0.71</b>	0.39	0.24	0.061	
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.70</b>	1.7	1.1	0.38	<b>J</b>
75-09-2	Methylene Chloride	0.39	0.64	0.39	0.18	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>2.9</b>	0.29	0.094	0.042	
75-15-0	Carbon Disulfide	<b>1.4</b>	1.4	0.74	0.22	
75-34-3	1,1-Dichloroethane	0.35	0.57	0.35	0.082	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.4</b>	1.4	0.46	0.16	
141-78-6	Ethyl Acetate	<b>9.5</b>	1.2	0.77	0.33	
110-54-3	n-Hexane	<b>1.7</b>	0.63	0.39	0.13	
67-66-3	Chloroform	0.15	0.46	0.15	0.062	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>0.43</b>	1.4	0.25	0.097	<b>J</b>
107-06-2	1,2-Dichloroethane	0.18	0.55	0.18	0.062	<b>U</b>
71-43-2	Benzene	<b>0.79</b>	0.69	0.23	0.10	
56-23-5	Carbon Tetrachloride	<b>0.78</b>	0.34	0.11	0.050	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV117-025-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P2005744-015

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00502

Date Collected: 10/6/20  
 Date Received: 10/12/20  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.09 Final Pressure (psig): 6.71

Container Dilution Factor: 1.70

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>2.1</b>	1.2	0.42	0.19	
75-27-4	Bromodichloromethane	0.11	0.33	0.11	0.049	U
79-01-6	Trichloroethene	0.13	0.40	0.13	0.057	U
123-91-1	1,4-Dioxane	0.20	0.61	0.20	0.074	U
142-82-5	n-Heptane	<b>6.4</b>	0.54	0.33	0.088	
108-10-1	4-Methyl-2-pentanone	0.18	1.0	0.18	0.076	U
108-88-3	Toluene	<b>4.7</b>	0.59	0.19	0.073	
591-78-6	2-Hexanone	0.18	1.0	0.18	0.069	U
124-48-1	Dibromochloromethane	0.085	0.26	0.085	0.035	U
106-93-4	1,2-Dibromoethane	0.094	0.29	0.094	0.034	U
127-18-4	Tetrachloroethene	<b>0.16</b>	0.33	0.11	0.043	J
100-41-4	Ethylbenzene	<b>0.85</b>	0.51	0.17	0.073	
179601-23-1	m,p-Xylenes	<b>4.5</b>	0.98	0.33	0.14	
75-25-2	Bromoform	0.13	0.22	0.13	0.045	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	<b>3.4</b>	0.52	0.17	0.075	
108-67-8	1,3,5-Trimethylbenzene	<b>1.3</b>	0.46	0.15	0.067	
95-63-6	1,2,4-Trimethylbenzene	<b>1.7</b>	0.45	0.15	0.064	
120-82-1	1,2,4-Trichlorobenzene	0.18	0.57	0.18	0.074	U
91-20-3	Naphthalene	<b>0.17</b>	0.42	0.25	0.11	J
1330-20-7	Xylenes, Total	<b>7.9</b>	0.98	0.33	0.14	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-016

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00259

Initial Pressure (psig): -3.16 Final Pressure (psig): 6.49

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.86	1.4	0.86	0.35	U
75-71-8	Dichlorodifluoromethane (CFC 12)	15	0.48	0.30	0.081	
74-87-3	Chloromethane	0.71	1.2	0.71	0.19	U
75-01-4	Vinyl Chloride	0.31	0.95	0.31	0.10	U
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.18	U
75-00-3	Chloroethane	0.56	0.91	0.56	0.12	U
64-17-5	Ethanol	2.8	13	2.0	0.90	J
67-64-1	Acetone	5.3	10	5.2	2.3	J
75-69-4	Trichlorofluoromethane	2.0	0.42	0.26	0.066	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.69	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	9.3	0.32	0.10	0.046	
75-15-0	Carbon Disulfide	1.0	1.5	0.80	0.24	J
75-34-3	1,1-Dichloroethane	0.38	0.61	0.38	0.089	U
78-93-3	2-Butanone (MEK)	2.5	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	U
110-54-3	n-Hexane	0.58	0.68	0.42	0.14	J
67-66-3	Chloroform	0.21	0.50	0.16	0.067	J
109-99-9	Tetrahydrofuran (THF)	27	1.6	0.27	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	0.29	0.75	0.24	0.11	J
56-23-5	Carbon Tetrachloride	2.9	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-016

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00259

Initial Pressure (psig): -3.16 Final Pressure (psig): 6.49

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.54</b>	1.3	0.45	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	<b>U</b>
79-01-6	Trichloroethene	0.15	0.44	0.15	0.062	<b>U</b>
123-91-1	1,4-Dioxane	0.22	0.66	0.22	0.080	<b>U</b>
142-82-5	n-Heptane	<b>1.8</b>	0.58	0.36	0.095	
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.082	<b>U</b>
108-88-3	Toluene	<b>1.4</b>	0.63	0.21	0.079	
591-78-6	2-Hexanone	0.19	1.1	0.19	0.074	<b>U</b>
124-48-1	Dibromochloromethane	0.092	0.28	0.092	0.038	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.23</b>	0.35	0.12	0.047	<b>J</b>
100-41-4	Ethylbenzene	<b>0.29</b>	0.55	0.18	0.079	<b>J</b>
179601-23-1	m,p-Xylenes	<b>1.6</b>	1.1	0.36	0.15	
75-25-2	Bromoform	0.14	0.24	0.14	0.049	<b>U</b>
100-42-5	Styrene	0.35	0.56	0.35	0.093	<b>U</b>
95-47-6	o-Xylene	<b>1.2</b>	0.56	0.18	0.082	
108-67-8	1,3,5-Trimethylbenzene	<b>0.43</b>	0.50	0.16	0.072	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.55</b>	0.49	0.16	0.069	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.081	<b>U</b>
91-20-3	Naphthalene	<b>0.23</b>	0.46	0.27	0.11	<b>J</b>
1330-20-7	Xylenes, Total	<b>2.8</b>	1.1	0.36	0.15	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-017

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01011

Initial Pressure (psig): -2.63 Final Pressure (psig): 6.37

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.8	1.3	0.81	0.33	
75-71-8	Dichlorodifluoromethane (CFC 12)	20	0.46	0.28	0.077	
74-87-3	Chloromethane	11	1.1	0.68	0.18	
75-01-4	Vinyl Chloride	0.29	0.91	0.29	0.098	U
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	U
75-00-3	Chloroethane	0.92	0.86	0.53	0.11	
64-17-5	Ethanol	2.5	12	1.9	0.86	J
67-64-1	Acetone	32	9.6	5.0	2.2	
75-69-4	Trichlorofluoromethane	2.4	0.40	0.25	0.063	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.78	1.8	1.1	0.39	J
75-09-2	Methylene Chloride	0.40	0.66	0.40	0.19	U
76-13-1	Trichlorotrifluoroethane	19	0.30	0.097	0.043	
75-15-0	Carbon Disulfide	3.3	1.4	0.76	0.22	
75-34-3	1,1-Dichloroethane	0.36	0.58	0.36	0.084	U
78-93-3	2-Butanone (MEK)	4.6	1.5	0.47	0.16	
141-78-6	Ethyl Acetate	0.79	1.2	0.79	0.34	U
110-54-3	n-Hexane	0.52	0.65	0.40	0.14	J
67-66-3	Chloroform	1.8	0.48	0.15	0.064	
109-99-9	Tetrahydrofuran (THF)	0.88	1.5	0.25	0.099	J
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.064	U
71-43-2	Benzene	0.69	0.71	0.23	0.11	J
56-23-5	Carbon Tetrachloride	5.1	0.35	0.12	0.051	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-017

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01011

Initial Pressure (psig): -2.63 Final Pressure (psig): 6.37

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.49</b>	1.3	0.43	0.19	<b>J</b>
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.050	<b>U</b>
79-01-6	Trichloroethene	<b>0.11</b>	0.42	0.14	0.059	<b>J</b>
123-91-1	1,4-Dioxane	0.21	0.63	0.21	0.077	<b>U</b>
142-82-5	n-Heptane	<b>1.3</b>	0.56	0.34	0.091	
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.078	<b>U</b>
108-88-3	Toluene	<b>3.2</b>	0.60	0.20	0.075	
591-78-6	2-Hexanone	0.18	1.1	0.18	0.071	<b>U</b>
124-48-1	Dibromochloromethane	0.087	0.27	0.087	0.036	<b>U</b>
106-93-4	1,2-Dibromoethane	0.097	0.30	0.097	0.035	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.31</b>	0.34	0.11	0.045	<b>J</b>
100-41-4	Ethylbenzene	<b>0.45</b>	0.52	0.17	0.076	<b>J</b>
179601-23-1	m,p-Xylenes	<b>2.1</b>	1.0	0.34	0.14	
75-25-2	Bromoform	0.14	0.22	0.14	0.047	<b>U</b>
100-42-5	Styrene	0.33	0.53	0.33	0.088	<b>U</b>
95-47-6	o-Xylene	<b>1.3</b>	0.53	0.17	0.078	
108-67-8	1,3,5-Trimethylbenzene	<b>0.57</b>	0.47	0.15	0.069	
95-63-6	1,2,4-Trimethylbenzene	<b>0.93</b>	0.46	0.15	0.066	
120-82-1	1,2,4-Trichlorobenzene	0.19	0.59	0.19	0.077	<b>U</b>
91-20-3	Naphthalene	<b>0.58</b>	0.43	0.26	0.11	
1330-20-7	Xylenes, Total	<b>3.4</b>	1.0	0.34	0.14	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV117-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-018

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/28/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.25 Liter(s)

Test Notes:

Container ID: 1SS01052

Initial Pressure (psig): -2.43    Final Pressure (psig): 7.07  
 Initial Pressure 2 (psig): 0.16    Final Pressure 2 (psig): 4.55

Container Dilution Factor: 2.30

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.7	2.8	1.7	0.70	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.97	0.60	0.16	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	U
75-01-4	Vinyl Chloride	0.61	1.9	0.61	0.21	U
106-99-0	1,3-Butadiene	1.3	2.2	1.3	0.37	U
75-00-3	Chloroethane	1.1	1.8	1.1	0.23	U
64-17-5	Ethanol	1.8	26	4.1	1.8	J
67-64-1	Acetone	9.0	20	10	4.6	J
75-69-4	Trichlorofluoromethane	0.77	0.84	0.52	0.13	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.8	3.7	2.4	0.82	
75-09-2	Methylene Chloride	0.85	1.4	0.85	0.40	U
76-13-1	Trichlorotrifluoroethane	38	0.64	0.20	0.091	
75-15-0	Carbon Disulfide	5.8	3.0	1.6	0.47	
75-34-3	1,1-Dichloroethane	0.75	1.2	0.75	0.18	U
78-93-3	2-Butanone (MEK)	1.2	3.1	1.0	0.34	J
141-78-6	Ethyl Acetate	1.7	2.6	1.7	0.72	U
110-54-3	n-Hexane	0.94	1.4	0.84	0.29	J
67-66-3	Chloroform	0.50	1.0	0.32	0.13	J
109-99-9	Tetrahydrofuran (THF)	4.6	3.1	0.53	0.21	
107-06-2	1,2-Dichloroethane	0.39	1.2	0.39	0.13	U
71-43-2	Benzene	8.9	1.5	0.49	0.22	
56-23-5	Carbon Tetrachloride	5.7	0.75	0.25	0.11	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-018

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/28/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.25 Liter(s)

Test Notes:

Container ID: 1SS01052

Initial Pressure (psig): -2.43    Final Pressure (psig): 7.07  
 Initial Pressure 2 (psig): 0.16    Final Pressure 2 (psig): 4.55

Container Dilution Factor: 2.30

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>2.8</b>	2.7	0.91	0.40	
75-27-4	Bromodichloromethane	0.23	0.71	0.23	0.11	U
79-01-6	Trichloroethene	0.29	0.87	0.29	0.12	U
123-91-1	1,4-Dioxane	0.43	1.3	0.43	0.16	U
142-82-5	n-Heptane	<b>1.4</b>	1.2	0.72	0.19	
108-10-1	4-Methyl-2-pentanone	0.38	2.2	0.38	0.16	U
108-88-3	Toluene	<b>3.2</b>	1.3	0.42	0.16	
591-78-6	2-Hexanone	0.38	2.2	0.38	0.15	U
124-48-1	Dibromochloromethane	0.18	0.56	0.18	0.076	U
106-93-4	1,2-Dibromoethane	0.20	0.62	0.20	0.074	U
127-18-4	Tetrachloroethene	<b>0.36</b>	0.71	0.23	0.094	J
100-41-4	Ethylbenzene	<b>0.40</b>	1.1	0.36	0.16	J
179601-23-1	m,p-Xylenes	<b>2.3</b>	2.1	0.72	0.30	
75-25-2	Bromoform	0.28	0.47	0.28	0.098	U
100-42-5	Styrene	0.69	1.1	0.69	0.19	U
95-47-6	o-Xylene	<b>1.7</b>	1.1	0.36	0.16	
108-67-8	1,3,5-Trimethylbenzene	<b>1.4</b>	0.99	0.32	0.14	
95-63-6	1,2,4-Trimethylbenzene	<b>0.95</b>	0.97	0.32	0.14	J
120-82-1	1,2,4-Trichlorobenzene	0.40	1.2	0.40	0.16	U
91-20-3	Naphthalene	0.54	0.91	0.54	0.23	U
1330-20-7	Xylenes, Total	<b>4.0</b>	2.1	0.72	0.30	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV117-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-019

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0050 Liter(s)

Test Notes:

Container ID: 1SC00570

Initial Pressure (psig): -3.05 Final Pressure (psig): 5.99

Container Dilution Factor: 1.78

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	44	110	66	27	J
75-71-8	Dichlorodifluoromethane (CFC 12)	14	37	23	6.3	J
74-87-3	Chloromethane	55	90	55	15	U
75-01-4	Vinyl Chloride	24	74	24	7.9	U
106-99-0	1,3-Butadiene	52	84	52	14	U
75-00-3	Chloroethane	43	70	43	8.9	U
64-17-5	Ethanol	160	1,000	160	70	U
67-64-1	Acetone	300	780	400	180	J
75-69-4	Trichlorofluoromethane	20	32	20	5.1	U
67-63-0	2-Propanol (Isopropyl Alcohol)	100	140	91	32	J
75-09-2	Methylene Chloride	33	53	33	15	U
76-13-1	Trichlorotrifluoroethane	21	25	7.9	3.5	J
75-15-0	Carbon Disulfide	62	110	62	18	U
75-34-3	1,1-Dichloroethane	29	48	29	6.9	U
78-93-3	2-Butanone (MEK)	43	120	39	13	J
141-78-6	Ethyl Acetate	64	99	64	28	U
110-54-3	n-Hexane	250	53	32	11	U
67-66-3	Chloroform	12	39	12	5.2	U
109-99-9	Tetrahydrofuran (THF)	21	120	21	8.1	U
107-06-2	1,2-Dichloroethane	15	46	15	5.2	U
71-43-2	Benzene	19	58	19	8.6	U
56-23-5	Carbon Tetrachloride	9.6	29	9.6	4.2	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-019

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0050 Liter(s)

Test Notes:

Container ID: 1SC00570

Initial Pressure (psig): -3.05 Final Pressure (psig): 5.99

Container Dilution Factor: 1.78

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1,100</b>	100	35	16	
75-27-4	Bromodichloromethane	9.0	28	9.0	4.1	U
79-01-6	Trichloroethene	11	34	11	4.8	U
123-91-1	1,4-Dioxane	17	51	17	6.2	U
142-82-5	n-Heptane	<b>400</b>	45	28	7.4	
108-10-1	4-Methyl-2-pentanone	15	87	15	6.3	U
108-88-3	Toluene	<b>10</b>	49	16	6.1	J
591-78-6	2-Hexanone	15	87	15	5.7	U
124-48-1	Dibromochloromethane	7.1	22	7.1	2.9	U
106-93-4	1,2-Dibromoethane	<b>8.0</b>	24	7.9	2.9	J
127-18-4	Tetrachloroethene	8.9	27	8.9	3.6	U
100-41-4	Ethylbenzene	14	43	14	6.1	U
179601-23-1	m,p-Xylenes	<b>13</b>	82	28	11	J
75-25-2	Bromoform	11	18	11	3.8	U
100-42-5	Styrene	27	43	27	7.2	U
95-47-6	o-Xylene	<b>37</b>	43	14	6.3	J
108-67-8	1,3,5-Trimethylbenzene	<b>44</b>	38	12	5.6	
95-63-6	1,2,4-Trimethylbenzene	<b>28</b>	38	12	5.4	J
120-82-1	1,2,4-Trichlorobenzene	15	48	15	6.2	U
91-20-3	Naphthalene	21	35	21	8.8	U
1330-20-7	Xylenes, Total	<b>50</b>	82	28	11	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV117-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-020

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SC01055

Initial Pressure (psig): -3.06 Final Pressure (psig): 7.33

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	6,000	2,900	1,800	710	
75-71-8	Dichlorodifluoromethane (CFC 12)	1,100	990	610	170	
74-87-3	Chloromethane	1,500	2,400	1,500	390	U
75-01-4	Vinyl Chloride	630	2,000	630	210	U
106-99-0	1,3-Butadiene	1,400	2,200	1,400	380	U
75-00-3	Chloroethane	1,100	1,900	1,100	240	U
64-17-5	Ethanol	4,200	27,000	4,200	1,900	U
67-64-1	Acetone	11,000	21,000	11,000	4,800	U
75-69-4	Trichlorofluoromethane	540	860	540	140	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,400	3,800	2,400	850	U
75-09-2	Methylene Chloride	870	1,400	870	410	U
76-13-1	Trichlorotrifluoroethane	210	650	210	94	U
75-15-0	Carbon Disulfide	1,600	3,000	1,600	490	U
75-34-3	1,1-Dichloroethane	770	1,300	770	180	U
78-93-3	2-Butanone (MEK)	1,000	3,200	1,000	350	U
141-78-6	Ethyl Acetate	1,700	2,600	1,700	730	U
110-54-3	n-Hexane	110,000	1,400	860	300	
67-66-3	Chloroform	330	1,000	330	140	U
109-99-9	Tetrahydrofuran (THF)	540	3,200	540	210	U
107-06-2	1,2-Dichloroethane	400	1,200	400	140	U
71-43-2	Benzene	5,400	1,500	500	230	
56-23-5	Carbon Tetrachloride	260	770	260	110	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-020

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SC01055

Initial Pressure (psig): -3.06 Final Pressure (psig): 7.33

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>190,000</b>	2,700	930	410	
75-27-4	Bromodichloromethane	240	730	240	110	U
79-01-6	Trichloroethene	300	900	300	130	U
123-91-1	1,4-Dioxane	450	1,400	450	170	U
142-82-5	n-Heptane	<b>180,000</b>	1,200	740	200	
108-10-1	4-Methyl-2-pentanone	390	2,300	390	170	U
108-88-3	Toluene	430	1,300	430	160	U
591-78-6	2-Hexanone	390	2,300	390	150	U
124-48-1	Dibromochloromethane	190	580	190	78	U
106-93-4	1,2-Dibromoethane	<b>320</b>	640	210	76	J
127-18-4	Tetrachloroethene	240	720	240	96	U
100-41-4	Ethylbenzene	<b>5,900</b>	1,100	370	160	
179601-23-1	m,p-Xylenes	<b>62,000</b>	2,200	740	300	
75-25-2	Bromoform	290	480	290	100	U
100-42-5	Styrene	710	1,200	710	190	U
95-47-6	o-Xylene	<b>22,000</b>	1,200	370	170	
108-67-8	1,3,5-Trimethylbenzene	<b>3,500</b>	1,000	330	150	
95-63-6	1,2,4-Trimethylbenzene	<b>7,000</b>	1,000	330	140	
120-82-1	1,2,4-Trichlorobenzene	410	1,300	410	170	U
91-20-3	Naphthalene	560	940	560	230	U
1330-20-7	Xylenes, Total	<b>83,000</b>	2,200	740	300	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201023-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201023-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201028-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/28/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201028-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/28/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: EA Engineering, Science, and Technology, Inc.

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 10/6/20

Analyst: Topacio De Leon/Wida Ang

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Cansiter(s)

Date(s) Analyzed: 10/23 - 10/28/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201023-MB	97	100	111	70-130	
Method Blank	P201028-MB	92	101	114	70-130	
Lab Control Sample	P201023-LCS	97	98	109	70-130	
Lab Control Sample	P201028-LCS	92	98	113	70-130	
Duplicate Lab Control Sample	P201023-DLCS	96	98	109	70-130	
Duplicate Lab Control Sample	P201028-DLCS	93	99	113	70-130	
SV114-025-204	P2005744-001	97	100	114	70-130	
SV114-050-204	P2005744-002	97	98	113	70-130	
SV114-150-204	P2005744-003	97	99	113	70-130	
SV114-250-604	P2005744-004	97	101	114	70-130	
SV114-250-204	P2005744-005	97	99	111	70-130	
SV114-350-204	P2005744-006	95	97	110	70-130	
SV114-350-204	P2005744-006DUP	96	98	111	70-130	
SV114-450-204	P2005744-007	96	91	104	70-130	
SV116-025-204	P2005744-008	97	99	113	70-130	
SV116-050-204	P2005744-009	97	101	113	70-130	
SV116-150-204	P2005744-010	96	100	112	70-130	
SV116-250-204	P2005744-011	95	100	114	70-130	
SV116-350-204	P2005744-012	96	84	104	70-130	
SV116-350-604	P2005744-013	96	90	107	70-130	
SV116-450-204	P2005744-014	96	97	110	70-130	
SV117-025-204	P2005744-015	96	98	113	70-130	
SV117-050-204	P2005744-016	103	100	113	70-130	
SV117-150-204	P2005744-017	96	100	115	70-130	
SV117-250-204	P2005744-018	96	73	100	70-130	
SV117-350-204	P2005744-019	96	93	107	70-130	
SV117-450-204	P2005744-020	95	94	107	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201023-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier		
115-07-1	Propene	122	102	101	84	83	57-136	1	25		
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	35.9	35.3	84	83	59-128	1	25		
74-87-3	Chloromethane	99.8	88.0	84.4	88	85	59-132	3	25		
75-01-4	Vinyl Chloride	81.4	71.7	69.4	88	85	64-127	3	25		
106-99-0	1,3-Butadiene	95.0	90.5	89.8	95	95	66-134	0	25		
75-00-3	Chloroethane	77.3	68.4	67.0	88	87	63-127	1	25		
64-17-5	Ethanol	530	416	413	78	78	59-125	0	25		
67-64-1	Acetone	435	346	342	80	79	58-128	1	25		
75-69-4	Trichlorofluoromethane	36.3	29.6	29.3	82	81	62-126	1	25		
67-63-0	2-Propanol (Isopropyl Alcohol)	166	155	153	93	92	52-125	1	25		
75-09-2	Methylene Chloride	59.9	51.7	50.7	86	85	62-115	1	25		
76-13-1	Trichlorotrifluoroethane	27.9	24.6	24.2	88	87	66-126	1	25		
75-15-0	Carbon Disulfide	137	108	106	79	77	57-134	3	25		
75-34-3	1,1-Dichloroethane	52.4	44.4	43.6	85	83	68-126	2	25		
78-93-3	2-Butanone (MEK)	140	134	133	96	95	67-130	1	25		
141-78-6	Ethyl Acetate	117	139	138	119	118	65-128	0.8	25		
110-54-3	n-Hexane	60.2	49.5	48.6	82	81	63-120	1	25		
67-66-3	Chloroform	43.8	35.8	35.1	82	80	68-123	2	25		
109-99-9	Tetrahydrofuran (THF)	136	115	113	85	83	64-123	2	25		
107-06-2	1,2-Dichloroethane	51.4	45.6	44.7	89	87	65-128	2	25		
71-43-2	Benzene	63.9	54.4	54.0	85	85	69-119	0	25		
56-23-5	Carbon Tetrachloride	33.4	26.5	26.4	79	79	68-132	0	25		

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201023-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits		Limit	Qualifier
110-82-7	Cyclohexane	121	104	103	86	85	70-117	1	25	
75-27-4	Bromodichloromethane	31.4	27.4	27.1	87	86	72-128	1	25	
79-01-6	Trichloroethene	38.3	34.1	33.8	89	88	71-123	1	25	
123-91-1	1,4-Dioxane	57.7	56.0	55.4	97	96	71-122	1	25	
142-82-5	n-Heptane	51.3	44.0	43.6	86	85	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	102	98.5	98.2	97	96	67-130	1	25	
108-88-3	Toluene	54.7	45.7	45.1	84	82	66-119	2	25	
591-78-6	2-Hexanone	98.7	100	99.2	101	101	62-128	0	25	
124-48-1	Dibromochloromethane	24.7	22.5	22.2	91	90	70-130	1	25	
106-93-4	1,2-Dibromoethane	27.1	25.3	24.9	93	92	74-122	1	25	
127-18-4	Tetrachloroethene	30.4	26.6	26.3	88	87	66-124	1	25	
100-41-4	Ethylbenzene	47.4	40.8	40.5	86	85	70-124	1	25	
179601-23-1	m,p-Xylenes	94.9	79.1	78.3	83	83	61-134	0	25	
75-25-2	Bromoform	20.1	19.3	19.1	96	95	66-139	1	25	
100-42-5	Styrene	48.4	45.8	45.3	95	94	73-127	1	25	
95-47-6	o-Xylene	47.4	40.6	40.1	86	85	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	35.0	34.5	84	82	67-130	2	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	36.4	36.1	88	87	66-132	1	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	50.6	50.2	97	96	55-142	1	25	
91-20-3	Naphthalene	37.8	38.5	38.3	102	101	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201028-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/28/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier		
115-07-1	Propene	122	91.9	91.3	75	75	57-136	0	25		
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	33.2	32.9	78	77	59-128	1	25		
74-87-3	Chloromethane	99.8	76.7	76.7	77	77	59-132	0	25		
75-01-4	Vinyl Chloride	81.4	66.8	67.1	82	82	64-127	0	25		
106-99-0	1,3-Butadiene	95.0	82.7	82.2	87	87	66-134	0	25		
75-00-3	Chloroethane	77.3	63.1	62.2	82	80	63-127	2	25		
64-17-5	Ethanol	530	373	372	70	70	59-125	0	25		
67-64-1	Acetone	435	322	321	74	74	58-128	0	25		
75-69-4	Trichlorofluoromethane	36.3	27.4	27.5	75	76	62-126	1	25		
67-63-0	2-Propanol (Isopropyl Alcohol)	166	140	139	84	84	52-125	0	25		
75-09-2	Methylene Chloride	59.9	48.3	48.6	81	81	62-115	0	25		
76-13-1	Trichlorotrifluoroethane	27.9	23.4	23.6	84	85	66-126	1	25		
75-15-0	Carbon Disulfide	137	101	102	74	74	57-134	0	25		
75-34-3	1,1-Dichloroethane	52.4	40.7	40.8	78	78	68-126	0	25		
78-93-3	2-Butanone (MEK)	140	125	126	89	90	67-130	1	25		
141-78-6	Ethyl Acetate	117	128	129	109	110	65-128	0.9	25		
110-54-3	n-Hexane	60.2	45.7	45.9	76	76	63-120	0	25		
67-66-3	Chloroform	43.8	33.0	33.4	75	76	68-123	1	25		
109-99-9	Tetrahydrofuran (THF)	136	107	108	79	79	64-123	0	25		
107-06-2	1,2-Dichloroethane	51.4	41.4	41.9	81	82	65-128	1	25		
71-43-2	Benzene	63.9	50.7	51.1	79	80	69-119	1	25		
56-23-5	Carbon Tetrachloride	33.4	24.5	24.8	73	74	68-132	1	25		

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201028-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/28/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits		Limit	Qualifier
110-82-7	Cyclohexane	121	97.2	98.0	80	81	70-117	1	25	
75-27-4	Bromodichloromethane	31.4	25.1	25.3	80	81	72-128	1	25	
79-01-6	Trichloroethene	38.3	32.3	32.6	84	85	71-123	1	25	
123-91-1	1,4-Dioxane	57.7	52.0	52.6	90	91	71-122	1	25	
142-82-5	n-Heptane	51.3	41.1	41.3	80	81	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	102	90.2	91.2	88	89	67-130	1	25	
108-88-3	Toluene	54.7	43.1	44.0	79	80	66-119	1	25	
591-78-6	2-Hexanone	98.7	90.2	92.8	91	94	62-128	3	25	
124-48-1	Dibromochloromethane	24.7	21.4	21.8	87	88	70-130	1	25	
106-93-4	1,2-Dibromoethane	27.1	23.8	24.3	88	90	74-122	2	25	
127-18-4	Tetrachloroethene	30.4	25.5	26.2	84	86	66-124	2	25	
100-41-4	Ethylbenzene	47.4	38.6	39.4	81	83	70-124	2	25	
179601-23-1	m,p-Xylenes	94.9	74.4	76.1	78	80	61-134	3	25	
75-25-2	Bromoform	20.1	18.3	18.9	91	94	66-139	3	25	
100-42-5	Styrene	48.4	43.0	44.3	89	92	73-127	3	25	
95-47-6	o-Xylene	47.4	38.3	39.1	81	82	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	33.1	33.8	79	81	67-130	3	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	34.8	35.5	84	86	66-132	2	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	47.9	49.2	92	94	55-142	2	25	
91-20-3	Naphthalene	37.8	36.0	36.9	95	98	57-138	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-006DUP

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.075 Liter(s)

Test Notes:

Container ID: 1SS00075

Initial Pressure (psig): -4.99

Final Pressure (psig): 6.34

Container Dilution Factor: 2.17

Compound	Sample Result ppbV	Duplicate Sample Result ppbV	Average ppbV	% RPD	RPD Limit	Data Qualifier
Propene	3.5	3.3	3.4	6	25	J
Dichlorodifluoromethane (CFC 12)	530	520	525	2	25	
Chloromethane	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	-	-	25	
Chloroethane	ND	ND	-	-	25	
Ethanol	ND	ND	-	-	25	
Acetone	ND	ND	-	-	25	
Trichlorofluoromethane	74	73	73.5	1	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	-	-	25	
Methylene Chloride	ND	ND	-	-	25	
Trichlorotrifluoroethane	21	21	21	0	25	
Carbon Disulfide	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	-	-	25	
Ethyl Acetate	ND	ND	-	-	25	
n-Hexane	ND	ND	-	-	25	
Chloroform	ND	ND	-	-	25	
Tetrahydrofuran (THF)	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	-	-	25	
Benzene	3.5	3.4	3.45	3	25	J
Carbon Tetrachloride	1.3	1.3	1.3	0	25	J

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-006DUP

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.075 Liter(s)

Test Notes:

Container ID: 1SS00075

Initial Pressure (psig): -4.99

Final Pressure (psig): 6.34

Container Dilution Factor: 2.17

Compound	Sample Result ppbV	Duplicate		Average ppbV	% RPD	RPD Limit	Data Qualifier
		Sample Result ppbV	Sample Result ppbV				
Cyclohexane	4.3	4.4	4.35	2	25	J	
Bromodichloromethane	ND	ND	-	-	25		
Trichloroethene	ND	ND	-	-	25		
1,4-Dioxane	ND	ND	-	-	25		
n-Heptane	ND	ND	-	-	25		
4-Methyl-2-pentanone	ND	ND	-	-	25		
Toluene	1.7	1.7	1.7	0	25	J	
2-Hexanone	ND	ND	-	-	25		
Dibromochloromethane	ND	ND	-	-	25		
1,2-Dibromoethane	ND	ND	-	-	25		
Tetrachloroethene	0.80	0.78	0.79	3	25	J	
Ethylbenzene	ND	ND	-	-	25		
m,p-Xylenes	1.1	1.1	1.1	0	25	J	
Bromoform	ND	ND	-	-	25		
Styrene	ND	ND	-	-	25		
o-Xylene	0.60	0.55	0.575	9	25	J	
1,3,5-Trimethylbenzene	ND	ND	-	-	25		
1,2,4-Trimethylbenzene	ND	ND	-	-	25		
1,2,4-Trichlorobenzene	ND	ND	-	-	25		
Naphthalene	ND	ND	-	-	25		
Xylenes, Total	1.7	1.6	1.65	6	25	J	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-001

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00317

Initial Pressure (psig): -3.21    Final Pressure (psig): 6.19  
 Initial Pressure 2 (psig): -0.01    Final Pressure 2 (psig): 7.58

Container Dilution Factor: 2.76

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.6	3.6	2.2	0.90	J
75-71-8	Dichlorodifluoromethane (CFC 12)	95	3.6	2.2	0.60	
74-87-3	Chloromethane	2.2	3.6	2.2	0.59	U
75-01-4	Vinyl Chloride	1.2	3.7	1.2	0.39	U
106-99-0	1,3-Butadiene	2.2	3.6	2.2	0.61	U
75-00-3	Chloroethane	2.2	3.6	2.2	0.46	U
64-17-5	Ethanol	27	37	5.7	2.6	J
67-64-1	Acetone	110	36	19	8.3	
75-69-4	Trichlorofluoromethane	13	3.5	2.2	0.56	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.7	6.9	4.3	1.5	J
75-09-2	Methylene Chloride	1.4	3.6	2.2	1.0	J
76-13-1	Trichlorotrifluoroethane	13	3.7	1.2	0.52	
75-15-0	Carbon Disulfide	4.3	6.9	3.7	1.1	J
75-34-3	1,1-Dichloroethane	2.3	3.7	2.3	0.54	U
78-93-3	2-Butanone (MEK)	46	6.9	2.2	0.76	
141-78-6	Ethyl Acetate	160	6.9	4.5	1.9	
110-54-3	n-Hexane	1.5	3.6	2.2	0.76	J
67-66-3	Chloroform	0.50	3.7	1.2	0.49	J
109-99-9	Tetrahydrofuran (THF)	2.3	6.9	1.2	0.46	J
107-06-2	1,2-Dichloroethane	1.2	3.6	1.2	0.41	U
71-43-2	Benzene	4.0	3.6	1.2	0.53	
56-23-5	Carbon Tetrachloride	7.7	3.5	1.2	0.51	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-001

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00317

Initial Pressure (psig): -3.21    Final Pressure (psig): 6.19  
 Initial Pressure 2 (psig): -0.01    Final Pressure 2 (psig): 7.58

Container Dilution Factor: 2.76

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1.3</b>	6.9	2.3	1.0	<b>J</b>
75-27-4	Bromodichloromethane	1.2	3.6	1.2	0.53	<b>U</b>
79-01-6	Trichloroethene	1.2	3.5	1.2	0.50	<b>U</b>
123-91-1	1,4-Dioxane	1.2	3.6	1.2	0.43	<b>U</b>
142-82-5	n-Heptane	<b>2.8</b>	3.6	2.2	0.59	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>1.7</b>	6.9	1.2	0.50	<b>J</b>
108-88-3	Toluene	<b>26</b>	3.6	1.2	0.45	
591-78-6	2-Hexanone	<b>6.2</b>	6.9	1.2	0.46	<b>J</b>
124-48-1	Dibromochloromethane	1.2	3.6	1.2	0.48	<b>U</b>
106-93-4	1,2-Dibromoethane	1.2	3.6	1.2	0.43	<b>U</b>
127-18-4	Tetrachloroethene	<b>1.0</b>	3.6	1.2	0.48	<b>J</b>
100-41-4	Ethylbenzene	<b>4.1</b>	3.6	1.2	0.52	
179601-23-1	m,p-Xylenes	<b>14</b>	6.9	2.3	0.97	
75-25-2	Bromoform	2.2	3.7	2.2	0.76	<b>U</b>
100-42-5	Styrene	2.2	3.6	2.2	0.59	<b>U</b>
95-47-6	o-Xylene	<b>4.9</b>	3.7	1.2	0.53	
108-67-8	1,3,5-Trimethylbenzene	<b>1.2</b>	3.7	1.2	0.53	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>4.5</b>	3.6	1.2	0.51	
120-82-1	1,2,4-Trichlorobenzene	2.2	6.9	2.2	0.90	<b>U</b>
91-20-3	Naphthalene	<b>2.4</b>	3.6	2.1	0.90	<b>J</b>
1330-20-7	Xylenes, Total	<b>19</b>	6.9	2.3	0.97	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-002

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00076

Initial Pressure (psig): -3.03    Final Pressure (psig): 8.39  
 Initial Pressure 2 (psig): 0.25    Final Pressure 2 (psig): 8.00

Container Dilution Factor: 3.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.4	3.9	2.4	0.98	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>140</b>	3.9	2.4	0.65	
74-87-3	Chloromethane	2.4	3.9	2.4	0.65	U
75-01-4	Vinyl Chloride	1.3	4.0	1.3	0.43	U
106-99-0	1,3-Butadiene	2.4	3.9	2.4	0.66	U
75-00-3	Chloroethane	2.4	3.9	2.4	0.50	U
64-17-5	Ethanol	<b>7.9</b>	40	6.2	2.8	J
67-64-1	Acetone	<b>31</b>	39	20	9.0	J
75-69-4	Trichlorofluoromethane	<b>19</b>	3.8	2.4	0.61	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.7	7.5	4.7	1.7	U
75-09-2	Methylene Chloride	2.4	3.9	2.4	1.1	U
76-13-1	Trichlorotrifluoroethane	<b>18</b>	4.0	1.3	0.57	
75-15-0	Carbon Disulfide	<b>3.9</b>	7.5	4.1	1.2	J
75-34-3	1,1-Dichloroethane	2.5	4.1	2.5	0.59	U
78-93-3	2-Butanone (MEK)	<b>9.3</b>	7.5	2.4	0.83	
141-78-6	Ethyl Acetate	4.9	7.5	4.9	2.1	U
110-54-3	n-Hexane	2.4	3.9	2.4	0.83	U
67-66-3	Chloroform	<b>0.69</b>	4.0	1.3	0.53	J
109-99-9	Tetrahydrofuran (THF)	<b>160</b>	7.5	1.3	0.50	
107-06-2	1,2-Dichloroethane	1.3	3.9	1.3	0.44	U
71-43-2	Benzene	<b>1.3</b>	3.9	1.3	0.58	J
56-23-5	Carbon Tetrachloride	<b>14</b>	3.8	1.3	0.56	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-002

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00076

Initial Pressure (psig): -3.03    Final Pressure (psig): 8.39  
 Initial Pressure 2 (psig): 0.25    Final Pressure 2 (psig): 8.00

Container Dilution Factor: 3.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.6	7.5	2.6	1.1	U
75-27-4	Bromodichloromethane	1.3	3.9	1.3	0.58	U
79-01-6	Trichloroethene	1.3	3.8	1.3	0.54	U
123-91-1	1,4-Dioxane	1.3	3.9	1.3	0.47	U
142-82-5	n-Heptane	<b>1.0</b>	3.9	2.4	0.64	J
108-10-1	4-Methyl-2-pentanone	1.3	7.5	1.3	0.55	U
108-88-3	Toluene	<b>8.4</b>	3.9	1.3	0.49	
591-78-6	2-Hexanone	1.3	7.5	1.3	0.50	U
124-48-1	Dibromochloromethane	1.3	3.9	1.3	0.53	U
106-93-4	1,2-Dibromoethane	1.3	3.9	1.3	0.47	U
127-18-4	Tetrachloroethene	<b>1.4</b>	3.9	1.3	0.52	J
100-41-4	Ethylbenzene	<b>1.6</b>	3.9	1.3	0.56	J
179601-23-1	m,p-Xylenes	<b>6.0</b>	7.5	2.6	1.1	J
75-25-2	Bromoform	2.4	4.0	2.4	0.83	U
100-42-5	Styrene	2.4	3.9	2.4	0.65	U
95-47-6	o-Xylene	<b>2.1</b>	4.0	1.3	0.58	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.67</b>	4.0	1.3	0.58	J
95-63-6	1,2,4-Trimethylbenzene	<b>2.5</b>	3.9	1.3	0.56	J
120-82-1	1,2,4-Trichlorobenzene	2.4	7.5	2.4	0.98	U
91-20-3	Naphthalene	2.3	3.9	2.3	0.98	U
1330-20-7	Xylenes, Total	<b>8.1</b>	7.5	2.6	1.1	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-003

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00247

Initial Pressure (psig): -3.06    Final Pressure (psig): 7.00  
 Initial Pressure 2 (psig): -0.01    Final Pressure 2 (psig): 8.34

Container Dilution Factor: 2.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.3	3.8	2.3	0.95	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>220</b>	3.8	2.3	0.64	
74-87-3	Chloromethane	2.3	3.8	2.3	0.63	U
75-01-4	Vinyl Chloride	1.2	3.9	1.2	0.42	U
106-99-0	1,3-Butadiene	2.3	3.8	2.3	0.64	U
75-00-3	Chloroethane	2.3	3.8	2.3	0.48	U
64-17-5	Ethanol	<b>8.5</b>	39	6.1	2.7	J
67-64-1	Acetone	<b>25</b>	38	20	8.8	J
75-69-4	Trichlorofluoromethane	<b>19</b>	3.7	2.3	0.59	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.6	7.3	4.6	1.6	U
75-09-2	Methylene Chloride	2.3	3.8	2.3	1.1	U
76-13-1	Trichlorotrifluoroethane	<b>38</b>	3.9	1.2	0.55	
75-15-0	Carbon Disulfide	<b>6.6</b>	7.3	3.9	1.2	J
75-34-3	1,1-Dichloroethane	2.4	3.9	2.4	0.57	U
78-93-3	2-Butanone (MEK)	<b>5.5</b>	7.3	2.3	0.80	J
141-78-6	Ethyl Acetate	4.7	7.3	4.7	2.0	U
110-54-3	n-Hexane	2.3	3.8	2.3	0.80	U
67-66-3	Chloroform	<b>0.59</b>	3.9	1.2	0.52	J
109-99-9	Tetrahydrofuran (THF)	<b>5.4</b>	7.3	1.2	0.49	J
107-06-2	1,2-Dichloroethane	1.2	3.8	1.2	0.43	U
71-43-2	Benzene	<b>1.1</b>	3.8	1.2	0.56	J
56-23-5	Carbon Tetrachloride	<b>18</b>	3.7	1.2	0.54	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV114-150-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P2005744-003

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00247

Date Collected: 10/6/20  
 Date Received: 10/12/20  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.06 Final Pressure (psig): 7.00  
 Initial Pressure 2 (psig): -0.01 Final Pressure 2 (psig): 8.34

Container Dilution Factor: 2.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.5	7.3	2.5	1.1	U
75-27-4	Bromodichloromethane	1.2	3.8	1.2	0.56	U
79-01-6	Trichloroethene	1.2	3.7	1.2	0.53	U
123-91-1	1,4-Dioxane	1.2	3.8	1.2	0.46	U
142-82-5	n-Heptane	<b>0.96</b>	3.8	2.3	0.62	J
108-10-1	4-Methyl-2-pentanone	1.2	7.3	1.2	0.53	U
108-88-3	Toluene	<b>6.8</b>	3.8	1.2	0.47	
591-78-6	2-Hexanone	1.2	7.3	1.2	0.48	U
124-48-1	Dibromochloromethane	1.2	3.8	1.2	0.51	U
106-93-4	1,2-Dibromoethane	1.2	3.8	1.2	0.45	U
127-18-4	Tetrachloroethene	<b>1.2</b>	3.8	1.2	0.50	J
100-41-4	Ethylbenzene	<b>1.1</b>	3.8	1.2	0.55	J
179601-23-1	m,p-Xylenes	<b>4.4</b>	7.3	2.5	1.0	J
75-25-2	Bromoform	2.3	3.9	2.3	0.80	U
100-42-5	Styrene	2.3	3.8	2.3	0.63	U
95-47-6	o-Xylene	<b>1.4</b>	3.9	1.2	0.56	J
108-67-8	1,3,5-Trimethylbenzene	1.2	3.9	1.2	0.56	U
95-63-6	1,2,4-Trimethylbenzene	<b>1.7</b>	3.8	1.2	0.54	J
120-82-1	1,2,4-Trichlorobenzene	2.3	7.3	2.3	0.95	U
91-20-3	Naphthalene	<b>1.4</b>	3.8	2.3	0.95	J
1330-20-7	Xylenes, Total	<b>5.8</b>	7.3	2.5	1.0	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-250-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-004

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00877

Initial Pressure (psig): -2.94 Final Pressure (psig): 8.27

Container Dilution Factor: 1.95

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.5	1.6	0.63	J
75-71-8	Dichlorodifluoromethane (CFC 12)	340	2.5	1.6	0.42	
74-87-3	Chloromethane	8.3	2.5	1.6	0.42	
75-01-4	Vinyl Chloride	0.83	2.6	0.83	0.28	U
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	U
75-00-3	Chloroethane	1.0	2.5	1.6	0.32	J
64-17-5	Ethanol	11	26	4.0	1.8	J
67-64-1	Acetone	46	25	13	5.9	
75-69-4	Trichlorofluoromethane	32	2.5	1.6	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	4.9	3.1	1.1	J
75-09-2	Methylene Chloride	0.75	2.5	1.6	0.73	J
76-13-1	Trichlorotrifluoroethane	28	2.6	0.83	0.37	
75-15-0	Carbon Disulfide	8.8	4.9	2.6	0.78	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	13	4.9	1.6	0.54	
141-78-6	Ethyl Acetate	3.2	4.9	3.2	1.4	U
110-54-3	n-Hexane	3.4	2.5	1.6	0.54	
67-66-3	Chloroform	7.5	2.6	0.83	0.35	
109-99-9	Tetrahydrofuran (THF)	3.1	4.9	0.83	0.33	J
107-06-2	1,2-Dichloroethane	0.67	2.5	0.83	0.29	J
71-43-2	Benzene	4.5	2.5	0.83	0.38	
56-23-5	Carbon Tetrachloride	36	2.5	0.83	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-250-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-004

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00877

Initial Pressure (psig): -2.94 Final Pressure (psig): 8.27

Container Dilution Factor: 1.95

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.0	4.9	1.7	0.73	J
75-27-4	Bromodichloromethane	0.72	2.5	0.83	0.38	J
79-01-6	Trichloroethene	0.50	2.5	0.83	0.35	J
123-91-1	1,4-Dioxane	0.85	2.5	0.83	0.31	J
142-82-5	n-Heptane	6.6	2.5	1.6	0.41	
108-10-1	4-Methyl-2-pentanone	0.82	4.9	0.83	0.36	J
108-88-3	Toluene	30	2.5	0.83	0.32	
591-78-6	2-Hexanone	0.83	4.9	0.83	0.32	U
124-48-1	Dibromochloromethane	0.68	2.5	0.83	0.34	J
106-93-4	1,2-Dibromoethane	0.33	2.5	0.83	0.30	J
127-18-4	Tetrachloroethene	0.73	2.5	0.83	0.34	J
100-41-4	Ethylbenzene	4.1	2.5	0.83	0.37	
179601-23-1	m,p-Xylenes	17	4.9	1.7	0.68	
75-25-2	Bromoform	2.5	2.6	1.6	0.54	J
100-42-5	Styrene	1.6	2.5	1.6	0.42	U
95-47-6	o-Xylene	4.9	2.6	0.83	0.38	
108-67-8	1,3,5-Trimethylbenzene	1.3	2.6	0.83	0.38	J
95-63-6	1,2,4-Trimethylbenzene	4.5	2.5	0.83	0.36	
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.63	U
91-20-3	Naphthalene	2.2	2.5	1.5	0.63	J
1330-20-7	Xylenes, Total	22	4.9	1.7	0.68	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-005

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01050

Initial Pressure (psig): -3.31    Final Pressure (psig): 7.05  
 Initial Pressure 2 (psig): 0.96    Final Pressure 2 (psig): 7.18

Container Dilution Factor: 2.67

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.1	3.5	2.1	0.87	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>340</b>	3.5	2.1	0.58	
74-87-3	Chloromethane	2.1	3.5	2.1	0.57	U
75-01-4	Vinyl Chloride	1.1	3.5	1.1	0.38	U
106-99-0	1,3-Butadiene	2.1	3.5	2.1	0.59	U
75-00-3	Chloroethane	2.1	3.5	2.1	0.44	U
64-17-5	Ethanol	<b>2.8</b>	35	5.5	2.5	J
67-64-1	Acetone	<b>8.6</b>	35	18	8.0	J
75-69-4	Trichlorofluoromethane	<b>32</b>	3.4	2.1	0.54	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.2	6.7	4.2	1.5	U
75-09-2	Methylene Chloride	2.1	3.5	2.1	1.0	U
76-13-1	Trichlorotrifluoroethane	<b>28</b>	3.5	1.1	0.51	
75-15-0	Carbon Disulfide	<b>5.5</b>	6.7	3.6	1.1	J
75-34-3	1,1-Dichloroethane	2.2	3.6	2.2	0.52	U
78-93-3	2-Butanone (MEK)	<b>1.7</b>	6.7	2.1	0.73	J
141-78-6	Ethyl Acetate	4.3	6.7	4.3	1.9	U
110-54-3	n-Hexane	2.1	3.5	2.1	0.73	U
67-66-3	Chloroform	<b>5.6</b>	3.5	1.1	0.47	
109-99-9	Tetrahydrofuran (THF)	<b>1.7</b>	6.7	1.1	0.45	J
107-06-2	1,2-Dichloroethane	1.1	3.5	1.1	0.39	U
71-43-2	Benzene	<b>1.1</b>	3.5	1.1	0.51	J
56-23-5	Carbon Tetrachloride	<b>36</b>	3.4	1.1	0.49	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-005

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01050

Initial Pressure (psig): -3.31    Final Pressure (psig): 7.05  
 Initial Pressure 2 (psig): 0.96    Final Pressure 2 (psig): 7.18

Container Dilution Factor: 2.67

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.3	6.7	2.3	1.0	U
75-27-4	Bromodichloromethane	1.1	3.5	1.1	0.51	U
79-01-6	Trichloroethene	<b>0.51</b>	3.4	1.1	0.48	J
123-91-1	1,4-Dioxane	1.1	3.5	1.1	0.42	U
142-82-5	n-Heptane	<b>0.97</b>	3.5	2.1	0.57	J
108-10-1	4-Methyl-2-pentanone	1.1	6.7	1.1	0.49	U
108-88-3	Toluene	<b>6.1</b>	3.5	1.1	0.43	J
591-78-6	2-Hexanone	1.1	6.7	1.1	0.44	U
124-48-1	Dibromochloromethane	1.1	3.5	1.1	0.47	U
106-93-4	1,2-Dibromoethane	1.1	3.5	1.1	0.41	U
127-18-4	Tetrachloroethene	<b>0.67</b>	3.5	1.1	0.46	J
100-41-4	Ethylbenzene	<b>0.93</b>	3.5	1.1	0.50	J
179601-23-1	m,p-Xylenes	<b>3.8</b>	6.7	2.3	0.93	J
75-25-2	Bromoform	2.1	3.5	2.1	0.73	U
100-42-5	Styrene	2.1	3.5	2.1	0.57	U
95-47-6	o-Xylene	<b>1.3</b>	3.5	1.1	0.51	J
108-67-8	1,3,5-Trimethylbenzene	1.1	3.5	1.1	0.51	U
95-63-6	1,2,4-Trimethylbenzene	<b>1.5</b>	3.5	1.1	0.49	J
120-82-1	1,2,4-Trichlorobenzene	2.1	6.7	2.1	0.87	U
91-20-3	Naphthalene	2.1	3.5	2.1	0.87	U
1330-20-7	Xylenes, Total	<b>5.1</b>	6.7	2.3	0.93	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-006

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.075 Liter(s)

Test Notes:

Container ID: 1SS00075

Initial Pressure (psig): -4.99 Final Pressure (psig): 6.34

Container Dilution Factor: 2.17

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	6.0	15	9.3	3.8	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2,600	15	9.3	2.5	
74-87-3	Chloromethane	9.3	15	9.3	2.5	U
75-01-4	Vinyl Chloride	4.9	15	4.9	1.6	U
106-99-0	1,3-Butadiene	9.3	15	9.3	2.5	U
75-00-3	Chloroethane	9.3	15	9.3	1.9	U
64-17-5	Ethanol	24	150	24	11	U
67-64-1	Acetone	78	150	78	35	U
75-69-4	Trichlorofluoromethane	410	15	9.3	2.3	
67-63-0	2-Propanol (Isopropyl Alcohol)	18	29	18	6.4	U
75-09-2	Methylene Chloride	9.3	15	9.3	4.3	U
76-13-1	Trichlorotrifluoroethane	160	15	4.9	2.2	
75-15-0	Carbon Disulfide	16	29	16	4.6	U
75-34-3	1,1-Dichloroethane	9.5	16	9.5	2.3	U
78-93-3	2-Butanone (MEK)	9.3	29	9.3	3.2	U
141-78-6	Ethyl Acetate	19	29	19	8.1	U
110-54-3	n-Hexane	9.3	15	9.3	3.2	U
67-66-3	Chloroform	4.9	15	4.9	2.1	U
109-99-9	Tetrahydrofuran (THF)	4.9	29	4.9	1.9	U
107-06-2	1,2-Dichloroethane	4.9	15	4.9	1.7	U
71-43-2	Benzene	11	15	4.9	2.2	J
56-23-5	Carbon Tetrachloride	8.3	15	4.9	2.1	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-006

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.075 Liter(s)

Test Notes:

Container ID: 1SS00075

Initial Pressure (psig): -4.99 Final Pressure (psig): 6.34

Container Dilution Factor: 2.17

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	15	29	9.8	4.3	J
75-27-4	Bromodichloromethane	4.9	15	4.9	2.2	U
79-01-6	Trichloroethene	4.9	15	4.9	2.1	U
123-91-1	1,4-Dioxane	4.9	15	4.9	1.8	U
142-82-5	n-Heptane	9.3	15	9.3	2.5	U
108-10-1	4-Methyl-2-pentanone	4.9	29	4.9	2.1	U
108-88-3	Toluene	6.4	15	4.9	1.9	J
591-78-6	2-Hexanone	4.9	29	4.9	1.9	U
124-48-1	Dibromochloromethane	4.9	15	4.9	2.0	U
106-93-4	1,2-Dibromoethane	4.9	15	4.9	1.8	U
127-18-4	Tetrachloroethene	5.4	15	4.9	2.0	J
100-41-4	Ethylbenzene	4.9	15	4.9	2.2	U
179601-23-1	m,p-Xylenes	4.8	29	9.8	4.1	J
75-25-2	Bromoform	9.3	15	9.3	3.2	U
100-42-5	Styrene	9.3	15	9.3	2.5	U
95-47-6	o-Xylene	2.6	15	4.9	2.2	J
108-67-8	1,3,5-Trimethylbenzene	4.9	15	4.9	2.2	U
95-63-6	1,2,4-Trimethylbenzene	4.9	15	4.9	2.1	U
120-82-1	1,2,4-Trichlorobenzene	9.3	29	9.3	3.8	U
91-20-3	Naphthalene	9.0	15	9.0	3.8	U
1330-20-7	Xylenes, Total	7.4	29	9.8	4.1	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-007

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00060 Liter(s)

Test Notes:

0.00030 Liter(s)

Container ID: 1SC01103

Initial Pressure (psig): -3.59 Final Pressure (psig): 5.33

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	9,800	1,600	960	390	
75-71-8	Dichlorodifluoromethane (CFC 12)	3,400	1,600	960	260	
74-87-3	Chloromethane	960	1,600	960	260	U
75-01-4	Vinyl Chloride	510	1,600	510	170	U
106-99-0	1,3-Butadiene	960	1,600	960	260	U
75-00-3	Chloroethane	960	1,600	960	200	U
64-17-5	Ethanol	2,000	16,000	2,500	1,100	J
67-64-1	Acetone	8,100	16,000	8,100	3,600	U
75-69-4	Trichlorofluoromethane	540	1,500	960	240	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1,900	3,000	1,900	660	U
75-09-2	Methylene Chloride	960	1,600	960	450	U
76-13-1	Trichlorotrifluoroethane	230	1,600	510	230	J
75-15-0	Carbon Disulfide	1,600	3,000	1,600	480	U
75-34-3	1,1-Dichloroethane	990	1,600	990	230	U
78-93-3	2-Butanone (MEK)	1,300	3,000	960	330	J
141-78-6	Ethyl Acetate	2,000	3,000	2,000	840	U
110-54-3	n-Hexane	130,000	1,600	960	330	
67-66-3	Chloroform	510	1,600	510	210	U
109-99-9	Tetrahydrofuran (THF)	510	3,000	510	200	U
107-06-2	1,2-Dichloroethane	510	1,600	510	180	U
71-43-2	Benzene	15,000	1,600	510	230	
56-23-5	Carbon Tetrachloride	510	1,500	510	220	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV114-450-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P2005744-007

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC01103

Date Collected: 10/6/20  
 Date Received: 10/12/20  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 0.00060 Liter(s)  
 0.00030 Liter(s)

Initial Pressure (psig): -3.59 Final Pressure (psig): 5.33

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>200,000</b>	3,000	1,000	450	
75-27-4	Bromodichloromethane	510	1,600	510	230	U
79-01-6	Trichloroethene	510	1,500	510	220	U
123-91-1	1,4-Dioxane	510	1,600	510	190	U
142-82-5	n-Heptane	<b>360,000</b>	3,100	1,900	510	D
108-10-1	4-Methyl-2-pentanone	510	3,000	510	220	U
108-88-3	Toluene	<b>51,000</b>	1,600	510	200	
591-78-6	2-Hexanone	510	3,000	510	200	U
124-48-1	Dibromochloromethane	510	1,600	510	210	U
106-93-4	1,2-Dibromoethane	<b>690</b>	1,600	510	190	J
127-18-4	Tetrachloroethene	510	1,600	510	210	U
100-41-4	Ethylbenzene	<b>5,900</b>	1,600	510	230	
179601-23-1	m,p-Xylenes	<b>52,000</b>	3,000	1,000	420	
75-25-2	Bromoform	960	1,600	960	330	U
100-42-5	Styrene	960	1,600	960	260	U
95-47-6	o-Xylene	<b>33,000</b>	1,600	510	230	
108-67-8	1,3,5-Trimethylbenzene	<b>8,000</b>	1,600	510	230	
95-63-6	1,2,4-Trimethylbenzene	<b>9,900</b>	1,600	510	220	
120-82-1	1,2,4-Trichlorobenzene	960	3,000	960	390	U
91-20-3	Naphthalene	<b>540</b>	1,600	930	390	J
1330-20-7	Xylenes, Total	<b>85,000</b>	3,000	1,000	420	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-008

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00946

Initial Pressure (psig): -3.89 Final Pressure (psig): 6.24

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.5	1.6	0.63	U
75-71-8	Dichlorodifluoromethane (CFC 12)	27	2.5	1.6	0.42	
74-87-3	Chloromethane	1.6	2.5	1.6	0.42	U
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.5	1.6	0.32	U
64-17-5	Ethanol	4.0	26	4.0	1.8	U
67-64-1	Acetone	13	25	13	5.8	U
75-69-4	Trichlorofluoromethane	4.0	2.5	1.6	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.1	4.9	3.1	1.1	U
75-09-2	Methylene Chloride	1.6	2.5	1.6	0.73	U
76-13-1	Trichlorotrifluoroethane	13	2.6	0.82	0.37	
75-15-0	Carbon Disulfide	0.85	4.9	2.6	0.78	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	1.6	4.9	1.6	0.53	U
141-78-6	Ethyl Acetate	3.2	4.9	3.2	1.4	U
110-54-3	n-Hexane	1.6	2.5	1.6	0.53	U
67-66-3	Chloroform	0.45	2.6	0.82	0.34	J
109-99-9	Tetrahydrofuran (THF)	0.35	4.9	0.82	0.32	J
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.29	U
71-43-2	Benzene	0.82	2.5	0.82	0.37	U
56-23-5	Carbon Tetrachloride	1.6	2.5	0.82	0.36	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-008

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00946

Initial Pressure (psig): -3.89 Final Pressure (psig): 6.24

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.9	1.6	0.73	U
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	0.82	2.5	0.82	0.35	U
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.31	U
142-82-5	n-Heptane	1.6	2.5	1.6	0.41	U
108-10-1	4-Methyl-2-pentanone	0.82	4.9	0.82	0.35	U
108-88-3	Toluene	<b>0.62</b>	2.5	0.82	0.32	J
591-78-6	2-Hexanone	0.82	4.9	0.82	0.32	U
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	0.82	2.5	0.82	0.33	U
100-41-4	Ethylbenzene	0.82	2.5	0.82	0.36	U
179601-23-1	m,p-Xylenes	1.6	4.9	1.6	0.68	U
75-25-2	Bromoform	1.6	2.6	1.6	0.53	U
100-42-5	Styrene	1.6	2.5	1.6	0.42	U
95-47-6	o-Xylene	0.82	2.6	0.82	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.82	2.6	0.82	0.37	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.88</b>	2.5	0.82	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.63	U
91-20-3	Naphthalene	<b>0.94</b>	2.5	1.5	0.63	J
1330-20-7	Xylenes, Total	1.6	4.9	1.6	0.68	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-009

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00053

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.36

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.61	U
75-71-8	Dichlorodifluoromethane (CFC 12)	84	2.4	1.5	0.41	
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	0.80	2.5	0.80	0.27	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	3.9	25	3.9	1.7	U
67-64-1	Acetone	13	24	13	5.6	U
75-69-4	Trichlorofluoromethane	9.6	2.4	1.5	0.38	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.7	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	38	2.5	0.80	0.36	
75-15-0	Carbon Disulfide	3.4	4.7	2.5	0.75	J
75-34-3	1,1-Dichloroethane	1.6	2.5	1.6	0.37	U
78-93-3	2-Butanone (MEK)	1.0	4.7	1.5	0.52	J
141-78-6	Ethyl Acetate	3.1	4.7	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.4	1.5	0.52	U
67-66-3	Chloroform	0.87	2.5	0.80	0.33	J
109-99-9	Tetrahydrofuran (THF)	400	4.7	0.80	0.31	
107-06-2	1,2-Dichloroethane	0.80	2.4	0.80	0.28	U
71-43-2	Benzene	0.80	2.4	0.80	0.36	U
56-23-5	Carbon Tetrachloride	12	2.4	0.80	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-009

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00053

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.36

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.7	1.6	0.71	U
75-27-4	Bromodichloromethane	0.80	2.4	0.80	0.36	U
79-01-6	Trichloroethene	0.80	2.4	0.80	0.34	U
123-91-1	1,4-Dioxane	0.80	2.4	0.80	0.30	U
142-82-5	n-Heptane	1.5	2.4	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	0.80	4.7	0.80	0.34	U
108-88-3	Toluene	1.2	2.4	0.80	0.31	J
591-78-6	2-Hexanone	0.80	4.7	0.80	0.31	U
124-48-1	Dibromochloromethane	0.80	2.4	0.80	0.33	U
106-93-4	1,2-Dibromoethane	0.80	2.4	0.80	0.29	U
127-18-4	Tetrachloroethene	0.74	2.4	0.80	0.32	J
100-41-4	Ethylbenzene	0.80	2.4	0.80	0.35	U
179601-23-1	m,p-Xylenes	0.71	4.7	1.6	0.66	J
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	0.80	2.5	0.80	0.36	U
108-67-8	1,3,5-Trimethylbenzene	0.80	2.5	0.80	0.36	U
95-63-6	1,2,4-Trimethylbenzene	0.71	2.4	0.80	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	1.5	2.4	1.5	0.61	U
1330-20-7	Xylenes, Total	0.71	4.7	1.6	0.66	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV116-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00726

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/23/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.10    Final Pressure (psig): 8.21  
 Initial Pressure 2 (psig): 0.37    Final Pressure 2 (psig): 7.60

Container Dilution Factor: 2.69

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.2	3.5	2.2	0.87	U
75-71-8	Dichlorodifluoromethane (CFC 12)	48	3.5	2.2	0.59	
74-87-3	Chloromethane	1.4	3.5	2.2	0.58	J
75-01-4	Vinyl Chloride	1.1	3.6	1.1	0.38	U
106-99-0	1,3-Butadiene	2.2	3.5	2.2	0.59	U
75-00-3	Chloroethane	2.2	3.5	2.2	0.44	U
64-17-5	Ethanol	11	36	5.6	2.5	J
67-64-1	Acetone	28	35	18	8.1	J
75-69-4	Trichlorofluoromethane	4.4	3.4	2.2	0.54	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.2	6.7	4.2	1.5	U
75-09-2	Methylene Chloride	2.2	3.5	2.2	1.0	U
76-13-1	Trichlorotrifluoroethane	12	3.6	1.1	0.51	
75-15-0	Carbon Disulfide	7.1	6.7	3.6	1.1	
75-34-3	1,1-Dichloroethane	2.2	3.6	2.2	0.52	U
78-93-3	2-Butanone (MEK)	1.4	6.7	2.2	0.74	J
141-78-6	Ethyl Acetate	2.9	6.7	4.4	1.9	J
110-54-3	n-Hexane	2.2	3.5	2.2	0.74	U
67-66-3	Chloroform	0.68	3.6	1.1	0.48	J
109-99-9	Tetrahydrofuran (THF)	3.8	6.7	1.1	0.45	J
107-06-2	1,2-Dichloroethane	1.1	3.5	1.1	0.40	U
71-43-2	Benzene	1.1	3.5	1.1	0.52	U
56-23-5	Carbon Tetrachloride	2.4	3.4	1.1	0.50	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV116-150-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P2005744-010

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00726

Date Collected: 10/6/20  
 Date Received: 10/12/20  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.10    Final Pressure (psig): 8.21  
 Initial Pressure 2 (psig): 0.37    Final Pressure 2 (psig): 7.60

Container Dilution Factor: 2.69

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.3	6.7	2.3	1.0	U
75-27-4	Bromodichloromethane	1.1	3.5	1.1	0.52	U
79-01-6	Trichloroethene	1.1	3.4	1.1	0.48	U
123-91-1	1,4-Dioxane	1.1	3.5	1.1	0.42	U
142-82-5	n-Heptane	2.2	3.5	2.2	0.57	U
108-10-1	4-Methyl-2-pentanone	1.1	6.7	1.1	0.49	U
108-88-3	Toluene	1.1	3.5	1.1	0.44	U
591-78-6	2-Hexanone	1.1	6.7	1.1	0.44	U
124-48-1	Dibromochloromethane	1.1	3.5	1.1	0.47	U
106-93-4	1,2-Dibromoethane	1.1	3.5	1.1	0.42	U
127-18-4	Tetrachloroethene	1.1	3.5	1.1	0.46	U
100-41-4	Ethylbenzene	1.1	3.5	1.1	0.50	U
179601-23-1	m,p-Xylenes	2.3	6.7	2.3	0.94	U
75-25-2	Bromoform	2.2	3.6	2.2	0.74	U
100-42-5	Styrene	2.2	3.5	2.2	0.58	U
95-47-6	o-Xylene	1.1	3.6	1.1	0.52	U
108-67-8	1,3,5-Trimethylbenzene	1.1	3.6	1.1	0.52	U
95-63-6	1,2,4-Trimethylbenzene	1.1	3.5	1.1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	2.2	6.7	2.2	0.87	U
91-20-3	Naphthalene	2.1	3.5	2.1	0.87	U
1330-20-7	Xylenes, Total	2.3	6.7	2.3	0.94	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-011

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01002

Initial Pressure (psig): -3.98 Final Pressure (psig): 6.71

Container Dilution Factor: 2.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.6	1.6	0.65	U
75-71-8	Dichlorodifluoromethane (CFC 12)	87	2.6	1.6	0.44	
74-87-3	Chloromethane	1.6	2.6	1.6	0.43	U
75-01-4	Vinyl Chloride	0.85	2.7	0.85	0.29	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.44	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	4.2	27	4.2	1.9	U
67-64-1	Acetone	14	26	14	6.0	U
75-69-4	Trichlorofluoromethane	9.7	2.6	1.6	0.41	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	5.0	3.2	1.1	U
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.75	U
76-13-1	Trichlorotrifluoroethane	66	2.7	0.85	0.38	
75-15-0	Carbon Disulfide	8.5	5.0	2.7	0.80	
75-34-3	1,1-Dichloroethane	1.7	2.7	1.7	0.39	U
78-93-3	2-Butanone (MEK)	1.6	5.0	1.6	0.55	U
141-78-6	Ethyl Acetate	3.3	5.0	3.3	1.4	U
110-54-3	n-Hexane	1.6	2.6	1.6	0.55	U
67-66-3	Chloroform	0.60	2.7	0.85	0.36	J
109-99-9	Tetrahydrofuran (THF)	6.1	5.0	0.85	0.34	
107-06-2	1,2-Dichloroethane	0.85	2.6	0.85	0.30	U
71-43-2	Benzene	5.7	2.6	0.85	0.39	
56-23-5	Carbon Tetrachloride	21	2.6	0.85	0.37	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-011

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01002

Initial Pressure (psig): -3.98 Final Pressure (psig): 6.71

Container Dilution Factor: 2.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	5.0	1.7	0.75	U
75-27-4	Bromodichloromethane	0.85	2.6	0.85	0.39	U
79-01-6	Trichloroethene	0.85	2.6	0.85	0.36	U
123-91-1	1,4-Dioxane	0.85	2.6	0.85	0.32	U
142-82-5	n-Heptane	1.6	2.6	1.6	0.43	U
108-10-1	4-Methyl-2-pentanone	<b>1.2</b>	5.0	0.85	0.37	J
108-88-3	Toluene	<b>8.7</b>	2.6	0.85	0.33	J
591-78-6	2-Hexanone	0.85	5.0	0.85	0.33	U
124-48-1	Dibromochloromethane	0.85	2.6	0.85	0.35	U
106-93-4	1,2-Dibromoethane	0.85	2.6	0.85	0.31	U
127-18-4	Tetrachloroethene	<b>1.9</b>	2.6	0.85	0.35	J
100-41-4	Ethylbenzene	<b>0.57</b>	2.6	0.85	0.38	J
179601-23-1	m,p-Xylenes	<b>1.1</b>	5.0	1.7	0.70	J
75-25-2	Bromoform	1.6	2.7	1.6	0.55	U
100-42-5	Styrene	1.6	2.6	1.6	0.43	U
95-47-6	o-Xylene	<b>1.5</b>	2.7	0.85	0.39	J
108-67-8	1,3,5-Trimethylbenzene	0.85	2.7	0.85	0.39	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.51</b>	2.6	0.85	0.37	J
120-82-1	1,2,4-Trichlorobenzene	1.6	5.0	1.6	0.65	U
91-20-3	Naphthalene	1.6	2.6	1.6	0.65	U
1330-20-7	Xylenes, Total	<b>2.6</b>	5.0	1.7	0.70	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-012

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.025 Liter(s)

Test Notes:

Container ID: 1SS00885

Initial Pressure (psig): -3.47 Final Pressure (psig): 7.11

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	180	40	25	10	
75-71-8	Dichlorodifluoromethane (CFC 12)	320	40	25	6.8	
74-87-3	Chloromethane	25	40	25	6.7	U
75-01-4	Vinyl Chloride	13	41	13	4.4	U
106-99-0	1,3-Butadiene	25	40	25	6.8	U
75-00-3	Chloroethane	25	40	25	5.1	U
64-17-5	Ethanol	440	410	64	29	
67-64-1	Acetone	210	400	210	93	U
75-69-4	Trichlorofluoromethane	42	40	25	6.3	
67-63-0	2-Propanol (Isopropyl Alcohol)	130	78	49	17	
75-09-2	Methylene Chloride	63	40	25	12	
76-13-1	Trichlorotrifluoroethane	31	41	13	5.9	J
75-15-0	Carbon Disulfide	42	78	42	12	U
75-34-3	1,1-Dichloroethane	26	42	26	6.1	U
78-93-3	2-Butanone (MEK)	230	78	25	8.5	
141-78-6	Ethyl Acetate	170	78	50	22	
110-54-3	n-Hexane	540	40	25	8.5	
67-66-3	Chloroform	6.2	41	13	5.5	J
109-99-9	Tetrahydrofuran (THF)	8.3	78	13	5.2	J
107-06-2	1,2-Dichloroethane	13	40	13	4.6	U
71-43-2	Benzene	450	40	13	6.0	
56-23-5	Carbon Tetrachloride	15	40	13	5.7	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-012

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.025 Liter(s)

Test Notes:

Container ID: 1SS00885

Initial Pressure (psig): -3.47 Final Pressure (psig): 7.11

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>6,400</b>	78	26	12	
75-27-4	Bromodichloromethane	13	40	13	6.0	U
79-01-6	Trichloroethene	<b>27</b>	40	13	5.6	J
123-91-1	1,4-Dioxane	13	40	13	4.9	U
142-82-5	n-Heptane	25	40	25	6.6	U
108-10-1	4-Methyl-2-pentanone	13	78	13	5.7	U
108-88-3	Toluene	<b>18</b>	40	13	5.0	J
591-78-6	2-Hexanone	13	78	13	5.1	U
124-48-1	Dibromochloromethane	13	40	13	5.4	U
106-93-4	1,2-Dibromoethane	13	40	13	4.8	U
127-18-4	Tetrachloroethene	13	40	13	5.4	U
100-41-4	Ethylbenzene	13	40	13	5.8	U
179601-23-1	m,p-Xylenes	<b>16</b>	78	26	11	J
75-25-2	Bromoform	25	41	25	8.5	U
100-42-5	Styrene	25	40	25	6.7	U
95-47-6	o-Xylene	<b>32</b>	41	13	6.0	J
108-67-8	1,3,5-Trimethylbenzene	<b>38</b>	41	13	6.0	J
95-63-6	1,2,4-Trimethylbenzene	13	40	13	5.7	U
120-82-1	1,2,4-Trichlorobenzene	25	78	25	10	U
91-20-3	Naphthalene	24	40	24	10	U
1330-20-7	Xylenes, Total	<b>49</b>	78	26	11	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-350-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-013

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.020 Liter(s)

Test Notes:

Container ID: 1SS00895

Initial Pressure (psig): -3.90 Final Pressure (psig): 6.44

Container Dilution Factor: 1.96

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	120	51	31	13	
75-71-8	Dichlorodifluoromethane (CFC 12)	180	51	31	8.5	
74-87-3	Chloromethane	31	51	31	8.4	U
75-01-4	Vinyl Chloride	17	52	17	5.6	U
106-99-0	1,3-Butadiene	31	51	31	8.6	U
75-00-3	Chloroethane	31	51	31	6.5	U
64-17-5	Ethanol	81	520	81	36	U
67-64-1	Acetone	260	510	260	120	U
75-69-4	Trichlorofluoromethane	23	50	31	7.9	J
67-63-0	2-Propanol (Isopropyl Alcohol)	62	98	62	22	U
75-09-2	Methylene Chloride	31	51	31	15	U
76-13-1	Trichlorotrifluoroethane	19	52	17	7.4	J
75-15-0	Carbon Disulfide	53	98	53	16	U
75-34-3	1,1-Dichloroethane	32	53	32	7.6	U
78-93-3	2-Butanone (MEK)	31	98	31	11	U
141-78-6	Ethyl Acetate	64	98	64	27	U
110-54-3	n-Hexane	500	51	31	11	
67-66-3	Chloroform	17	52	17	7.0	U
109-99-9	Tetrahydrofuran (THF)	17	98	17	6.6	U
107-06-2	1,2-Dichloroethane	17	51	17	5.8	U
71-43-2	Benzene	400	51	17	7.5	
56-23-5	Carbon Tetrachloride	17	50	17	7.3	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-350-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-013

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.020 Liter(s)

Test Notes:

Container ID: 1SS00895

Initial Pressure (psig): -3.90 Final Pressure (psig): 6.44

Container Dilution Factor: 1.96

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>6,100</b>	98	33	15	
75-27-4	Bromodichloromethane	17	51	17	7.5	U
79-01-6	Trichloroethene	<b>15</b>	50	17	7.1	J
123-91-1	1,4-Dioxane	17	51	17	6.2	U
142-82-5	n-Heptane	31	51	31	8.3	U
108-10-1	4-Methyl-2-pentanone	17	98	17	7.2	U
108-88-3	Toluene	<b>11</b>	51	17	6.4	J
591-78-6	2-Hexanone	17	98	17	6.5	U
124-48-1	Dibromochloromethane	17	51	17	6.9	U
106-93-4	1,2-Dibromoethane	17	51	17	6.1	U
127-18-4	Tetrachloroethene	17	51	17	6.8	U
100-41-4	Ethylbenzene	17	51	17	7.4	U
179601-23-1	m,p-Xylenes	33	98	33	14	U
75-25-2	Bromoform	31	52	31	11	U
100-42-5	Styrene	31	51	31	8.4	U
95-47-6	o-Xylene	<b>29</b>	52	17	7.5	J
108-67-8	1,3,5-Trimethylbenzene	<b>36</b>	52	17	7.5	J
95-63-6	1,2,4-Trimethylbenzene	17	51	17	7.3	U
120-82-1	1,2,4-Trichlorobenzene	31	98	31	13	U
91-20-3	Naphthalene	30	51	30	13	U
1330-20-7	Xylenes, Total	<b>29</b>	98	33	14	J

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-014

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00025 Liter(s)

Test Notes:

Container ID: 1SS00968

Initial Pressure (psig): -2.02 Final Pressure (psig): 7.11

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	12,000	3,600	2,200	890	
75-71-8	Dichlorodifluoromethane (CFC 12)	2,200	3,600	2,200	600	U
74-87-3	Chloromethane	2,200	3,600	2,200	590	U
75-01-4	Vinyl Chloride	1,200	3,600	1,200	390	U
106-99-0	1,3-Butadiene	2,200	3,600	2,200	610	U
75-00-3	Chloroethane	2,200	3,600	2,200	450	U
64-17-5	Ethanol	5,700	36,000	5,700	2,500	U
67-64-1	Acetone	19,000	36,000	19,000	8,300	U
75-69-4	Trichlorofluoromethane	2,200	3,500	2,200	560	U
67-63-0	2-Propanol (Isopropyl Alcohol)	4,300	6,900	4,300	1,500	U
75-09-2	Methylene Chloride	2,200	3,600	2,200	1,000	U
76-13-1	Trichlorotrifluoroethane	1,200	3,600	1,200	520	U
75-15-0	Carbon Disulfide	3,700	6,900	3,700	1,100	U
75-34-3	1,1-Dichloroethane	2,300	3,700	2,300	540	U
78-93-3	2-Butanone (MEK)	2,200	6,900	2,200	760	U
141-78-6	Ethyl Acetate	4,500	6,900	4,500	1,900	U
110-54-3	n-Hexane	500,000	3,600	2,200	760	
67-66-3	Chloroform	1,200	3,600	1,200	490	U
109-99-9	Tetrahydrofuran (THF)	1,200	6,900	1,200	460	U
107-06-2	1,2-Dichloroethane	1,200	3,600	1,200	410	U
71-43-2	Benzene	66,000	3,600	1,200	530	
56-23-5	Carbon Tetrachloride	1,200	3,500	1,200	510	U

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV116-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-014

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00025 Liter(s)

Test Notes:

Container ID: 1SS00968

Initial Pressure (psig): -2.02 Final Pressure (psig): 7.11

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>680,000</b>	6,900	2,300	1,000	
75-27-4	Bromodichloromethane	1,200	3,600	1,200	530	U
79-01-6	Trichloroethene	1,200	3,500	1,200	500	U
123-91-1	1,4-Dioxane	1,200	3,600	1,200	430	U
142-82-5	n-Heptane	<b>640,000</b>	3,600	2,200	580	
108-10-1	4-Methyl-2-pentanone	1,200	6,900	1,200	500	U
108-88-3	Toluene	<b>140,000</b>	3,600	1,200	450	
591-78-6	2-Hexanone	1,200	6,900	1,200	450	U
124-48-1	Dibromochloromethane	1,200	3,600	1,200	480	U
106-93-4	1,2-Dibromoethane	<b>1,200</b>	3,600	1,200	430	J
127-18-4	Tetrachloroethene	1,200	3,600	1,200	470	U
100-41-4	Ethylbenzene	<b>12,000</b>	3,600	1,200	520	
179601-23-1	m,p-Xylenes	<b>54,000</b>	6,900	2,300	960	
75-25-2	Bromoform	2,200	3,600	2,200	760	U
100-42-5	Styrene	2,200	3,600	2,200	590	U
95-47-6	o-Xylene	<b>40,000</b>	3,600	1,200	530	
108-67-8	1,3,5-Trimethylbenzene	<b>8,100</b>	3,600	1,200	530	
95-63-6	1,2,4-Trimethylbenzene	<b>6,800</b>	3,600	1,200	510	
120-82-1	1,2,4-Trichlorobenzene	2,200	6,900	2,200	890	U
91-20-3	Naphthalene	2,100	3,600	2,100	890	U
1330-20-7	Xylenes, Total	<b>94,000</b>	6,900	2,300	960	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-015

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00502

Initial Pressure (psig): -2.09 Final Pressure (psig): 6.71

Container Dilution Factor: 1.70

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.85	2.2	1.4	0.55	J
75-71-8	Dichlorodifluoromethane (CFC 12)	23	2.2	1.4	0.37	
74-87-3	Chloromethane	1.4	2.2	1.4	0.37	U
75-01-4	Vinyl Chloride	0.72	2.3	0.72	0.24	U
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.37	U
75-00-3	Chloroethane	1.4	2.2	1.4	0.28	U
64-17-5	Ethanol	8.6	23	3.5	1.6	J
67-64-1	Acetone	46	22	11	5.1	
75-69-4	Trichlorofluoromethane	4.0	2.2	1.4	0.34	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.7	4.3	2.7	0.94	J
75-09-2	Methylene Chloride	1.4	2.2	1.4	0.64	U
76-13-1	Trichlorotrifluoroethane	23	2.3	0.72	0.32	
75-15-0	Carbon Disulfide	4.5	4.3	2.3	0.68	
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.33	U
78-93-3	2-Butanone (MEK)	7.2	4.3	1.4	0.47	
141-78-6	Ethyl Acetate	34	4.3	2.8	1.2	
110-54-3	n-Hexane	6.1	2.2	1.4	0.47	
67-66-3	Chloroform	0.72	2.3	0.72	0.30	U
109-99-9	Tetrahydrofuran (THF)	1.3	4.3	0.72	0.28	J
107-06-2	1,2-Dichloroethane	0.72	2.2	0.72	0.25	U
71-43-2	Benzene	2.5	2.2	0.72	0.33	
56-23-5	Carbon Tetrachloride	4.9	2.2	0.72	0.31	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-015

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00502

Initial Pressure (psig): -2.09 Final Pressure (psig): 6.71

Container Dilution Factor: 1.70

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>7.2</b>	4.3	1.4	0.64	
75-27-4	Bromodichloromethane	0.72	2.2	0.72	0.33	U
79-01-6	Trichloroethene	0.72	2.2	0.72	0.31	U
123-91-1	1,4-Dioxane	0.72	2.2	0.72	0.27	U
142-82-5	n-Heptane	<b>26</b>	2.2	1.4	0.36	
108-10-1	4-Methyl-2-pentanone	0.72	4.3	0.72	0.31	U
108-88-3	Toluene	<b>18</b>	2.2	0.72	0.28	
591-78-6	2-Hexanone	0.72	4.3	0.72	0.28	U
124-48-1	Dibromochloromethane	0.72	2.2	0.72	0.30	U
106-93-4	1,2-Dibromoethane	0.72	2.2	0.72	0.26	U
127-18-4	Tetrachloroethene	<b>1.1</b>	2.2	0.72	0.29	J
100-41-4	Ethylbenzene	<b>3.7</b>	2.2	0.72	0.32	
179601-23-1	m,p-Xylenes	<b>20</b>	4.3	1.4	0.60	
75-25-2	Bromoform	1.4	2.3	1.4	0.47	U
100-42-5	Styrene	1.4	2.2	1.4	0.37	U
95-47-6	o-Xylene	<b>15</b>	2.3	0.72	0.33	
108-67-8	1,3,5-Trimethylbenzene	<b>6.2</b>	2.3	0.72	0.33	
95-63-6	1,2,4-Trimethylbenzene	<b>8.2</b>	2.2	0.72	0.31	
120-82-1	1,2,4-Trichlorobenzene	1.4	4.3	1.4	0.55	U
91-20-3	Naphthalene	<b>0.88</b>	2.2	1.3	0.55	J
1330-20-7	Xylenes, Total	<b>34</b>	4.3	1.4	0.60	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV117-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-016

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00259

Initial Pressure (psig): -3.16 Final Pressure (psig): 6.49

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.60	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>75</b>	2.4	1.5	0.40	
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	0.78	2.4	0.78	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	<b>5.2</b>	24	3.8	1.7	J
67-64-1	Acetone	<b>12</b>	24	12	5.5	J
75-69-4	Trichlorofluoromethane	<b>11</b>	2.3	1.5	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	<b>71</b>	2.4	0.78	0.35	
75-15-0	Carbon Disulfide	<b>3.2</b>	4.6	2.5	0.74	J
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	<b>7.3</b>	4.6	1.5	0.51	
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U
110-54-3	n-Hexane	<b>2.0</b>	2.4	1.5	0.51	J
67-66-3	Chloroform	<b>1.0</b>	2.4	0.78	0.33	J
109-99-9	Tetrahydrofuran (THF)	<b>80</b>	4.6	0.78	0.31	
107-06-2	1,2-Dichloroethane	0.78	2.4	0.78	0.27	U
71-43-2	Benzene	<b>0.94</b>	2.4	0.78	0.35	J
56-23-5	Carbon Tetrachloride	<b>18</b>	2.3	0.78	0.34	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-016

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00259

Initial Pressure (psig): -3.16 Final Pressure (psig): 6.49

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.9	4.6	1.6	0.69	J
75-27-4	Bromodichloromethane	0.78	2.4	0.78	0.35	U
79-01-6	Trichloroethene	0.78	2.3	0.78	0.33	U
123-91-1	1,4-Dioxane	0.78	2.4	0.78	0.29	U
142-82-5	n-Heptane	7.5	2.4	1.5	0.39	
108-10-1	4-Methyl-2-pentanone	0.78	4.6	0.78	0.34	U
108-88-3	Toluene	5.4	2.4	0.78	0.30	
591-78-6	2-Hexanone	0.78	4.6	0.78	0.30	U
124-48-1	Dibromochloromethane	0.78	2.4	0.78	0.32	U
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.29	U
127-18-4	Tetrachloroethene	1.6	2.4	0.78	0.32	J
100-41-4	Ethylbenzene	1.3	2.4	0.78	0.35	J
179601-23-1	m,p-Xylenes	6.8	4.6	1.6	0.64	
75-25-2	Bromoform	1.5	2.4	1.5	0.51	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	5.2	2.4	0.78	0.35	
108-67-8	1,3,5-Trimethylbenzene	2.1	2.4	0.78	0.35	J
95-63-6	1,2,4-Trimethylbenzene	2.7	2.4	0.78	0.34	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.60	U
91-20-3	Naphthalene	1.2	2.4	1.4	0.60	J
1330-20-7	Xylenes, Total	12	4.6	1.6	0.64	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV117-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-017

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01011

Initial Pressure (psig): -2.63 Final Pressure (psig): 6.37

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.1	2.3	1.4	0.57	
75-71-8	Dichlorodifluoromethane (CFC 12)	99	2.3	1.4	0.38	
74-87-3	Chloromethane	23	2.3	1.4	0.38	
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	2.4	2.3	1.4	0.29	
64-17-5	Ethanol	4.7	23	3.6	1.6	J
67-64-1	Acetone	76	23	12	5.3	
75-69-4	Trichlorofluoromethane	13	2.2	1.4	0.35	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.9	4.4	2.8	0.96	J
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.66	U
76-13-1	Trichlorotrifluoroethane	140	2.3	0.74	0.33	
75-15-0	Carbon Disulfide	10	4.4	2.4	0.70	
75-34-3	1,1-Dichloroethane	1.4	2.4	1.4	0.34	U
78-93-3	2-Butanone (MEK)	13	4.4	1.4	0.48	
141-78-6	Ethyl Acetate	2.8	4.4	2.8	1.2	U
110-54-3	n-Hexane	1.8	2.3	1.4	0.48	J
67-66-3	Chloroform	8.7	2.3	0.74	0.31	
109-99-9	Tetrahydrofuran (THF)	2.6	4.4	0.74	0.29	J
107-06-2	1,2-Dichloroethane	0.74	2.3	0.74	0.26	U
71-43-2	Benzene	2.2	2.3	0.74	0.34	J
56-23-5	Carbon Tetrachloride	32	2.2	0.74	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-017

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01011

Initial Pressure (psig): -2.63 Final Pressure (psig): 6.37

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	4.4	1.5	0.66	J
75-27-4	Bromodichloromethane	0.74	2.3	0.74	0.34	U
79-01-6	Trichloroethene	0.59	2.2	0.74	0.32	J
123-91-1	1,4-Dioxane	0.74	2.3	0.74	0.28	U
142-82-5	n-Heptane	5.3	2.3	1.4	0.37	
108-10-1	4-Methyl-2-pentanone	0.74	4.4	0.74	0.32	U
108-88-3	Toluene	12	2.3	0.74	0.28	
591-78-6	2-Hexanone	0.74	4.4	0.74	0.29	U
124-48-1	Dibromochloromethane	0.74	2.3	0.74	0.31	U
106-93-4	1,2-Dibromoethane	0.74	2.3	0.74	0.27	U
127-18-4	Tetrachloroethene	2.1	2.3	0.74	0.30	J
100-41-4	Ethylbenzene	1.9	2.3	0.74	0.33	J
179601-23-1	m,p-Xylenes	9.1	4.4	1.5	0.61	
75-25-2	Bromoform	1.4	2.3	1.4	0.48	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	5.7	2.3	0.74	0.34	
108-67-8	1,3,5-Trimethylbenzene	2.8	2.3	0.74	0.34	
95-63-6	1,2,4-Trimethylbenzene	4.6	2.3	0.74	0.32	
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.57	U
91-20-3	Naphthalene	3.0	2.3	1.4	0.57	
1330-20-7	Xylenes, Total	15	4.4	1.5	0.61	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV117-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-018

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/28/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.25 Liter(s)

Test Notes:

Container ID: 1SS01052

Initial Pressure (psig): -2.43    Final Pressure (psig): 7.07  
 Initial Pressure 2 (psig): 0.16    Final Pressure 2 (psig): 4.55

Container Dilution Factor: 2.30

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.9	4.8	2.9	1.2	J
75-71-8	Dichlorodifluoromethane (CFC 12)	14	4.8	2.9	0.80	
74-87-3	Chloromethane	2.9	4.8	2.9	0.79	U
75-01-4	Vinyl Chloride	1.6	4.9	1.6	0.52	U
106-99-0	1,3-Butadiene	2.9	4.8	2.9	0.81	U
75-00-3	Chloroethane	2.9	4.8	2.9	0.61	U
64-17-5	Ethanol	3.4	49	7.6	3.4	J
67-64-1	Acetone	21	48	25	11	J
75-69-4	Trichlorofluoromethane	4.3	4.7	2.9	0.75	J
67-63-0	2-Propanol (Isopropyl Alcohol)	12	9.2	5.8	2.0	
75-09-2	Methylene Chloride	2.9	4.8	2.9	1.4	U
76-13-1	Trichlorotrifluoroethane	290	4.9	1.6	0.70	
75-15-0	Carbon Disulfide	18	9.2	5.0	1.5	
75-34-3	1,1-Dichloroethane	3.0	5.0	3.0	0.72	U
78-93-3	2-Butanone (MEK)	3.5	9.2	2.9	1.0	J
141-78-6	Ethyl Acetate	6.0	9.2	6.0	2.6	U
110-54-3	n-Hexane	3.3	4.8	2.9	1.0	J
67-66-3	Chloroform	2.4	4.9	1.6	0.65	J
109-99-9	Tetrahydrofuran (THF)	13	9.2	1.6	0.62	
107-06-2	1,2-Dichloroethane	1.6	4.8	1.6	0.54	U
71-43-2	Benzene	28	4.8	1.6	0.71	
56-23-5	Carbon Tetrachloride	36	4.7	1.6	0.68	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-018

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/28/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.25 Liter(s)

Test Notes:

Container ID: 1SS01052

Initial Pressure (psig): -2.43    Final Pressure (psig): 7.07  
 Initial Pressure 2 (psig): 0.16    Final Pressure 2 (psig): 4.55

Container Dilution Factor: 2.30

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	9.7	9.2	3.1	1.4	
75-27-4	Bromodichloromethane	1.6	4.8	1.6	0.71	U
79-01-6	Trichloroethene	1.6	4.7	1.6	0.66	U
123-91-1	1,4-Dioxane	1.6	4.8	1.6	0.58	U
142-82-5	n-Heptane	5.7	4.8	2.9	0.78	
108-10-1	4-Methyl-2-pentanone	1.6	9.2	1.6	0.67	U
108-88-3	Toluene	12	4.8	1.6	0.60	
591-78-6	2-Hexanone	1.6	9.2	1.6	0.61	U
124-48-1	Dibromochloromethane	1.6	4.8	1.6	0.64	U
106-93-4	1,2-Dibromoethane	1.6	4.8	1.6	0.57	U
127-18-4	Tetrachloroethene	2.4	4.8	1.6	0.63	J
100-41-4	Ethylbenzene	1.7	4.8	1.6	0.69	J
179601-23-1	m,p-Xylenes	9.8	9.2	3.1	1.3	
75-25-2	Bromoform	2.9	4.9	2.9	1.0	U
100-42-5	Styrene	2.9	4.8	2.9	0.79	U
95-47-6	o-Xylene	7.6	4.9	1.6	0.71	
108-67-8	1,3,5-Trimethylbenzene	6.7	4.9	1.6	0.71	
95-63-6	1,2,4-Trimethylbenzene	4.7	4.8	1.6	0.68	J
120-82-1	1,2,4-Trichlorobenzene	2.9	9.2	2.9	1.2	U
91-20-3	Naphthalene	2.9	4.8	2.9	1.2	U
1330-20-7	Xylenes, Total	17	9.2	3.1	1.3	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV117-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-019

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0050 Liter(s)

Test Notes:

Container ID: 1SC00570

Initial Pressure (psig): -3.05 Final Pressure (psig): 5.99

Container Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	77	190	110	46	J
75-71-8	Dichlorodifluoromethane (CFC 12)	69	190	110	31	J
74-87-3	Chloromethane	110	190	110	31	U
75-01-4	Vinyl Chloride	61	190	61	20	U
106-99-0	1,3-Butadiene	110	190	110	31	U
75-00-3	Chloroethane	110	190	110	23	U
64-17-5	Ethanol	300	1,900	300	130	U
67-64-1	Acetone	710	1,900	960	430	J
75-69-4	Trichlorofluoromethane	110	180	110	29	U
67-63-0	2-Propanol (Isopropyl Alcohol)	250	360	220	78	J
75-09-2	Methylene Chloride	110	190	110	53	U
76-13-1	Trichlorotrifluoroethane	160	190	61	27	J
75-15-0	Carbon Disulfide	190	360	190	57	U
75-34-3	1,1-Dichloroethane	120	190	120	28	U
78-93-3	2-Butanone (MEK)	130	360	110	39	J
141-78-6	Ethyl Acetate	230	360	230	100	U
110-54-3	n-Hexane	890	190	110	39	U
67-66-3	Chloroform	61	190	61	25	U
109-99-9	Tetrahydrofuran (THF)	61	360	61	24	U
107-06-2	1,2-Dichloroethane	61	190	61	21	U
71-43-2	Benzene	61	190	61	27	U
56-23-5	Carbon Tetrachloride	61	180	61	26	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-019

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0050 Liter(s)

Test Notes:

Container ID: 1SC00570

Initial Pressure (psig): -3.05 Final Pressure (psig): 5.99

Container Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>3,600</b>	360	120	53	
75-27-4	Bromodichloromethane	61	190	61	27	U
79-01-6	Trichloroethene	61	180	61	26	U
123-91-1	1,4-Dioxane	61	190	61	22	U
142-82-5	n-Heptane	<b>1,600</b>	190	110	30	
108-10-1	4-Methyl-2-pentanone	61	360	61	26	U
108-88-3	Toluene	<b>38</b>	190	61	23	J
591-78-6	2-Hexanone	61	360	61	23	U
124-48-1	Dibromochloromethane	61	190	61	25	U
106-93-4	1,2-Dibromoethane	<b>61</b>	190	61	22	J
127-18-4	Tetrachloroethene	61	190	61	25	U
100-41-4	Ethylbenzene	61	190	61	27	U
179601-23-1	m,p-Xylenes	<b>55</b>	360	120	50	J
75-25-2	Bromoform	110	190	110	39	U
100-42-5	Styrene	110	190	110	31	U
95-47-6	o-Xylene	<b>160</b>	190	61	27	J
108-67-8	1,3,5-Trimethylbenzene	<b>220</b>	190	61	27	J
95-63-6	1,2,4-Trimethylbenzene	<b>140</b>	190	61	26	J
120-82-1	1,2,4-Trichlorobenzene	110	360	110	46	U
91-20-3	Naphthalene	110	190	110	46	U
1330-20-7	Xylenes, Total	<b>220</b>	360	120	50	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-020

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SC01055

Initial Pressure (psig): -3.06 Final Pressure (psig): 7.33

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	10,000	4,900	3,000	1,200	
75-71-8	Dichlorodifluoromethane (CFC 12)	5,300	4,900	3,000	820	
74-87-3	Chloromethane	3,000	4,900	3,000	810	U
75-01-4	Vinyl Chloride	1,600	5,000	1,600	540	U
106-99-0	1,3-Butadiene	3,000	4,900	3,000	830	U
75-00-3	Chloroethane	3,000	4,900	3,000	620	U
64-17-5	Ethanol	7,800	50,000	7,800	3,500	U
67-64-1	Acetone	26,000	49,000	26,000	11,000	U
75-69-4	Trichlorofluoromethane	3,000	4,800	3,000	770	U
67-63-0	2-Propanol (Isopropyl Alcohol)	6,000	9,500	6,000	2,100	U
75-09-2	Methylene Chloride	3,000	4,900	3,000	1,400	U
76-13-1	Trichlorotrifluoroethane	1,600	5,000	1,600	720	U
75-15-0	Carbon Disulfide	5,100	9,500	5,100	1,500	U
75-34-3	1,1-Dichloroethane	3,100	5,100	3,100	740	U
78-93-3	2-Butanone (MEK)	3,000	9,500	3,000	1,000	U
141-78-6	Ethyl Acetate	6,100	9,500	6,100	2,600	U
110-54-3	n-Hexane	400,000	4,900	3,000	1,000	
67-66-3	Chloroform	1,600	5,000	1,600	670	U
109-99-9	Tetrahydrofuran (THF)	1,600	9,500	1,600	630	U
107-06-2	1,2-Dichloroethane	1,600	4,900	1,600	560	U
71-43-2	Benzene	17,000	4,900	1,600	730	
56-23-5	Carbon Tetrachloride	1,600	4,800	1,600	700	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV117-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-020

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SC01055

Initial Pressure (psig): -3.06 Final Pressure (psig): 7.33

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>640,000</b>	9,500	3,200	1,400	
75-27-4	Bromodichloromethane	1,600	4,900	1,600	730	U
79-01-6	Trichloroethene	1,600	4,800	1,600	680	U
123-91-1	1,4-Dioxane	1,600	4,900	1,600	600	U
142-82-5	n-Heptane	<b>720,000</b>	4,900	3,000	800	
108-10-1	4-Methyl-2-pentanone	1,600	9,500	1,600	690	U
108-88-3	Toluene	1,600	4,900	1,600	610	U
591-78-6	2-Hexanone	1,600	9,500	1,600	620	U
124-48-1	Dibromochloromethane	1,600	4,900	1,600	660	U
106-93-4	1,2-Dibromoethane	<b>2,500</b>	4,900	1,600	590	J
127-18-4	Tetrachloroethene	1,600	4,900	1,600	650	U
100-41-4	Ethylbenzene	<b>26,000</b>	4,900	1,600	710	
179601-23-1	m,p-Xylenes	<b>270,000</b>	9,500	3,200	1,300	
75-25-2	Bromoform	3,000	5,000	3,000	1,000	U
100-42-5	Styrene	3,000	4,900	3,000	810	U
95-47-6	o-Xylene	<b>94,000</b>	5,000	1,600	730	
108-67-8	1,3,5-Trimethylbenzene	<b>17,000</b>	5,000	1,600	730	
95-63-6	1,2,4-Trimethylbenzene	<b>34,000</b>	4,900	1,600	700	
120-82-1	1,2,4-Trichlorobenzene	3,000	9,500	3,000	1,200	U
91-20-3	Naphthalene	2,900	4,900	2,900	1,200	U
1330-20-7	Xylenes, Total	<b>360,000</b>	9,500	3,200	1,300	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201023-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	LOQ $\mu\text{g}/\text{m}^3$	LOD $\mu\text{g}/\text{m}^3$	MDL $\mu\text{g}/\text{m}^3$	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201023-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	LOQ $\mu\text{g}/\text{m}^3$	LOD $\mu\text{g}/\text{m}^3$	MDL $\mu\text{g}/\text{m}^3$	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201028-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/28/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	LOQ $\mu\text{g}/\text{m}^3$	LOD $\mu\text{g}/\text{m}^3$	MDL $\mu\text{g}/\text{m}^3$	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201028-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/28/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	LOQ $\mu\text{g}/\text{m}^3$	LOD $\mu\text{g}/\text{m}^3$	MDL $\mu\text{g}/\text{m}^3$	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: EA Engineering, Science, and Technology, Inc.

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 10/6/20

Analyst: Topacio De Leon/Wida Ang

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Cansiter(s)

Date(s) Analyzed: 10/23 - 10/28/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201023-MB	98	100	111	70-130	
Method Blank	P201028-MB	93	101	114	70-130	
Lab Control Sample	P201023-LCS	97	98	109	70-130	
Lab Control Sample	P201028-LCS	93	98	113	70-130	
Duplicate Lab Control Sample	P201023-DLCS	96	98	109	70-130	
Duplicate Lab Control Sample	P201028-DLCS	93	99	113	70-130	
SV114-025-204	P2005744-001	98	100	114	70-130	
SV114-050-204	P2005744-002	97	98	113	70-130	
SV114-150-204	P2005744-003	97	100	113	70-130	
SV114-250-604	P2005744-004	97	100	114	70-130	
SV114-250-204	P2005744-005	97	99	111	70-130	
SV114-350-204	P2005744-006	95	97	110	70-130	
SV114-350-204	P2005744-006DUP	96	97	111	70-130	
SV114-450-204	P2005744-007	96	91	104	70-130	
SV116-025-204	P2005744-008	97	99	113	70-130	
SV116-050-204	P2005744-009	97	101	113	70-130	
SV116-150-204	P2005744-010	96	100	112	70-130	
SV116-250-204	P2005744-011	95	100	114	70-130	
SV116-350-204	P2005744-012	96	85	104	70-130	
SV116-350-604	P2005744-013	96	90	107	70-130	
SV116-450-204	P2005744-014	96	97	110	70-130	
SV117-025-204	P2005744-015	96	98	113	70-130	
SV117-050-204	P2005744-016	103	100	113	70-130	
SV117-150-204	P2005744-017	96	100	115	70-130	
SV117-250-204	P2005744-018	96	73	100	70-130	
SV117-350-204	P2005744-019	96	93	107	70-130	
SV117-450-204	P2005744-020	95	94	107	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201023-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD RPD Limit	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
115-07-1	Propene	210	176	174	84	83	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	177	175	84	83	59-128	1	25	
74-87-3	Chloromethane	206	182	174	88	84	59-132	5	25	
75-01-4	Vinyl Chloride	208	183	177	88	85	64-127	3	25	
106-99-0	1,3-Butadiene	210	200	199	95	95	66-134	0	25	
75-00-3	Chloroethane	204	180	177	88	87	63-127	1	25	
64-17-5	Ethanol	998	783	778	78	78	59-125	0	25	
67-64-1	Acetone	1,030	820	813	80	79	58-128	1	25	
75-69-4	Trichlorofluoromethane	204	166	164	81	80	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	381	377	93	92	52-125	1	25	
75-09-2	Methylene Chloride	208	180	176	87	85	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	214	188	186	88	87	66-126	1	25	
75-15-0	Carbon Disulfide	428	337	331	79	77	57-134	3	25	
75-34-3	1,1-Dichloroethane	212	179	176	84	83	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	395	392	96	95	67-130	1	25	
141-78-6	Ethyl Acetate	422	502	496	119	118	65-128	0.8	25	
110-54-3	n-Hexane	212	174	171	82	81	63-120	1	25	
67-66-3	Chloroform	214	175	171	82	80	68-123	2	25	
109-99-9	Tetrahydrofuran (THF)	400	340	334	85	84	64-123	1	25	
107-06-2	1,2-Dichloroethane	208	185	181	89	87	65-128	2	25	
71-43-2	Benzene	204	174	173	85	85	69-119	0	25	
56-23-5	Carbon Tetrachloride	210	167	166	80	79	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201023-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/23/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	359	356		<b>86</b>	<b>86</b>	70-117	0	25
75-27-4	Bromodichloromethane	210	184	181		<b>88</b>	<b>86</b>	72-128	2	25
79-01-6	Trichloroethene	206	183	181		<b>89</b>	<b>88</b>	71-123	1	25
123-91-1	1,4-Dioxane	208	202	200		<b>97</b>	<b>96</b>	71-122	1	25
142-82-5	n-Heptane	210	180	179		<b>86</b>	<b>85</b>	69-123	1	25
108-10-1	4-Methyl-2-pentanone	416	403	402		<b>97</b>	<b>97</b>	67-130	0	25
108-88-3	Toluene	206	172	170		<b>83</b>	<b>83</b>	66-119	0	25
591-78-6	2-Hexanone	404	411	406		<b>102</b>	<b>100</b>	62-128	2	25
124-48-1	Dibromochloromethane	210	192	189		<b>91</b>	<b>90</b>	70-130	1	25
106-93-4	1,2-Dibromoethane	208	194	191		<b>93</b>	<b>92</b>	74-122	1	25
127-18-4	Tetrachloroethene	206	180	178		<b>87</b>	<b>86</b>	66-124	1	25
100-41-4	Ethylbenzene	206	177	176		<b>86</b>	<b>85</b>	70-124	1	25
179601-23-1	m,p-Xylenes	412	343	340		<b>83</b>	<b>83</b>	61-134	0	25
75-25-2	Bromoform	208	199	198		<b>96</b>	<b>95</b>	66-139	1	25
100-42-5	Styrene	206	195	193		<b>95</b>	<b>94</b>	73-127	1	25
95-47-6	o-Xylene	206	176	174		<b>85</b>	<b>84</b>	67-125	1	25
108-67-8	1,3,5-Trimethylbenzene	206	172	170		<b>83</b>	<b>83</b>	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	204	179	177		<b>88</b>	<b>87</b>	66-132	1	25
120-82-1	1,2,4-Trichlorobenzene	388	376	372		<b>97</b>	<b>96</b>	55-142	1	25
91-20-3	Naphthalene	198	202	201		<b>102</b>	<b>102</b>	57-138	0	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201028-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/28/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	210	158	157	75	75	57-136	0	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	164	163	78	78	59-128	0	25	
74-87-3	Chloromethane	206	158	158	77	77	59-132	0	25	
75-01-4	Vinyl Chloride	208	171	172	82	83	64-127	1	25	
106-99-0	1,3-Butadiene	210	183	182	87	87	66-134	0	25	
75-00-3	Chloroethane	204	166	164	81	80	63-127	1	25	
64-17-5	Ethanol	998	703	700	70	70	59-125	0	25	
67-64-1	Acetone	1,030	764	762	74	74	58-128	0	25	
75-69-4	Trichlorofluoromethane	204	154	155	75	76	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	345	341	85	84	52-125	1	25	
75-09-2	Methylene Chloride	208	168	169	81	81	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	214	179	181	84	85	66-126	1	25	
75-15-0	Carbon Disulfide	428	315	316	74	74	57-134	0	25	
75-34-3	1,1-Dichloroethane	212	165	165	78	78	68-126	0	25	
78-93-3	2-Butanone (MEK)	412	369	373	90	91	67-130	1	25	
141-78-6	Ethyl Acetate	422	461	463	109	110	65-128	0.9	25	
110-54-3	n-Hexane	212	161	162	76	76	63-120	0	25	
67-66-3	Chloroform	214	161	163	75	76	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	400	315	319	79	80	64-123	1	25	
107-06-2	1,2-Dichloroethane	208	168	170	81	82	65-128	1	25	
71-43-2	Benzene	204	162	163	79	80	69-119	1	25	
56-23-5	Carbon Tetrachloride	210	154	156	73	74	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744  
 ALS Sample ID: P201028-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/28/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	335	337	81	81	70-117	0	25	
75-27-4	Bromodichloromethane	210	168	170	80	81	72-128	1	25	
79-01-6	Trichloroethene	206	174	175	84	85	71-123	1	25	
123-91-1	1,4-Dioxane	208	187	189	90	91	71-122	1	25	
142-82-5	n-Heptane	210	168	169	80	80	69-123	0	25	
108-10-1	4-Methyl-2-pentanone	416	370	374	89	90	67-130	1	25	
108-88-3	Toluene	206	162	166	79	81	66-119	3	25	
591-78-6	2-Hexanone	404	369	380	91	94	62-128	3	25	
124-48-1	Dibromochloromethane	210	182	186	87	89	70-130	2	25	
106-93-4	1,2-Dibromoethane	208	183	187	88	90	74-122	2	25	
127-18-4	Tetrachloroethene	206	173	178	84	86	66-124	2	25	
100-41-4	Ethylbenzene	206	168	171	82	83	70-124	1	25	
179601-23-1	m,p-Xylenes	412	323	330	78	80	61-134	3	25	
75-25-2	Bromoform	208	190	195	91	94	66-139	3	25	
100-42-5	Styrene	206	183	188	89	91	73-127	2	25	
95-47-6	o-Xylene	206	166	170	81	83	67-125	2	25	
108-67-8	1,3,5-Trimethylbenzene	206	163	166	79	81	67-130	3	25	
95-63-6	1,2,4-Trimethylbenzene	204	171	174	84	85	66-132	1	25	
120-82-1	1,2,4-Trichlorobenzene	388	355	365	91	94	55-142	3	25	
91-20-3	Naphthalene	198	189	194	95	98	57-138	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-006DUP

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.075 Liter(s)

Test Notes:

Container ID: 1SS00075

Initial Pressure (psig): -4.99

Final Pressure (psig): 6.34

Container Dilution Factor: 2.17

Compound	Sample Result µg/m <sup>3</sup>	Duplicate Sample Result µg/m <sup>3</sup>	Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
Propene	6.0	5.7	5.85	5	25	J
Dichlorodifluoromethane (CFC 12)	2,600	2,600	2600	0	25	
Chloromethane	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	-	-	25	
Chloroethane	ND	ND	-	-	25	
Ethanol	ND	ND	-	-	25	
Acetone	ND	ND	-	-	25	
Trichlorofluoromethane	410	410	410	0	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	-	-	25	
Methylene Chloride	ND	ND	-	-	25	
Trichlorotrifluoroethane	160	160	160	0	25	
Carbon Disulfide	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	-	-	25	
Ethyl Acetate	ND	ND	-	-	25	
n-Hexane	ND	ND	-	-	25	
Chloroform	ND	ND	-	-	25	
Tetrahydrofuran (THF)	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	-	-	25	
Benzene	11	11	11	0	25	J
Carbon Tetrachloride	8.3	7.9	8.1	5	25	J

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV114-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005744

ALS Sample ID: P2005744-006DUP

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/12/20

Analyst: Wida Ang

Date Analyzed: 10/23/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.075 Liter(s)

Test Notes:

Container ID: 1SS00075

Initial Pressure (psig): -4.99

Final Pressure (psig): 6.34

Container Dilution Factor: 2.17

Compound	Sample Result µg/m <sup>3</sup>	Duplicate Sample Result µg/m <sup>3</sup>	Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
Cyclohexane	15	15	15	0	25	J
Bromodichloromethane	ND	ND	-	-	25	
Trichloroethene	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	-	-	25	
n-Heptane	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	-	-	25	
Toluene	6.4	6.3	6.35	2	25	J
2-Hexanone	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	-	-	25	
Tetrachloroethene	5.4	5.3	5.35	2	25	J
Ethylbenzene	ND	ND	-	-	25	
m,p-Xylenes	4.8	4.7	4.75	2	25	J
Bromoform	ND	ND	-	-	25	
Styrene	ND	ND	-	-	25	
o-Xylene	2.6	2.4	2.5	8	25	J
1,3,5-Trimethylbenzene	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	-	-	25	
Naphthalene	ND	ND	-	-	25	
Xylenes, Total	7.4	7.1	7.25	4	25	J

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005744  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 10232001.D  
Analyst: Wida Ang Date Analyzed: 10/23/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 05:07  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA	# RT	AREA	# RT	AREA	# RT
<b>24 Hour Standard</b>	129308	11.21	564188	13.32	257369	17.63
<b>Upper Limit</b>	181031	11.54	789863	13.65	360317	17.96
<b>Lower Limit</b>	77585	10.88	338513	12.99	154421	17.30

Client Sample ID	IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
01 Method Blank	124693 11.18	545821 13.31	246203 17.63
02 Lab Control Sample	129119 11.20	558936 13.32	255226 17.63
03 Duplicate Lab Control Sample	131447 11.21	562896 13.32	257051 17.63
04 SV114-450-204	127784 11.18	551842 13.31	265314 17.63
05 SV114-450-204 (Dilution)	127247 11.18	550877 13.31	252220 17.63
06 SV116-450-204	125890 11.18	550163 13.31	249182 17.63
07 SV117-450-204	126406 11.18	548727 13.31	256227 17.63
08 SV114-025-204	123223 11.19	540194 13.32	241817 17.63
09 SV117-350-204	126284 11.18	547556 13.31	259973 17.63
10 SV114-050-204	124069 11.19	543749 13.31	248077 17.63
11 SV114-150-204	126710 11.18	549768 13.31	247973 17.63
12 SV116-350-204	137660 11.19	586987 13.31	284338 17.63
13 SV116-350-604	136361 11.18	585904 13.31	274428 17.63
14 SV114-250-604	123413 11.18	540049 13.31	238468 17.63
15 SV114-250-204	124035 11.18	546340 13.31	246052 17.63
16 SV114-350-204	133568 11.18	573802 13.31	263198 17.63
17 SV114-350-204 (Lab Duplicate)	133271 11.18	575409 13.31	262692 17.63
18 SV116-025-204	122599 11.18	539271 13.31	243824 17.63
19 SV116-050-204	127466 11.19	554446 13.31	246717 17.63
20 SV116-150-204	123145 11.18	534155 13.31	239919 17.63

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005744  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 10232001.D  
Analyst: Wida Ang Date Analyzed: 10/23/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 05:07  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	129308	11.21	564188	13.32	257369	17.63
<b>Upper Limit</b>	181031	11.54	789863	13.65	360317	17.96
<b>Lower Limit</b>	77585	10.88	338513	12.99	154421	17.30

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
21	SV116-250-204	122343	11.18	533170
22	SV117-025-204	125756	11.18	544959
23	SV117-050-204	116961	11.18	545659
24	SV117-150-204	126443	11.18	545499
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

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RT UPPER LIMIT = 0.33 minutes of internal standard RT

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005744  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 10282001.D  
Analyst: Topacio De Leon Date Analyzed: 10/28/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 01:06  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	127802	11.20	548621	13.31	248385	17.63
<b>Upper Limit</b>	178923	11.53	768069	13.64	347739	17.96
<b>Lower Limit</b>	76681	10.87	329173	12.98	149031	17.30

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	123348	11.18	538311	13.31	239701	17.63
02	Lab Control Sample	127862	11.20	552400	13.31	250205	17.63
03	Duplicate Lab Control Sample	126675	11.20	548776	13.32	246042	17.63
04	SV117-250-204	131907	11.18	571546	13.31	304906	17.63
05							
06							
07							
08							
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16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

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RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



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## LABORATORY REPORT

October 27, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 12, 2020. For your reference, these analyses have been assigned our service request number P2005748.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*Kate Kaneko*  
Oct 27, 2020, 9:55 am

Kate Kaneko  
Project Manager

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RIGHT SOLUTIONS | RIGHT PARTNER



2655 Park Center Dr., Suite A  
 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2005748

## CASE NARRATIVE

The samples were received intact under chain of custody on October 12, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2005748-001	Propene
P2005748-002,002 Dil	Acetone
P2005748-009,012	1,2,4-Trimethylbenze

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2005748

Date Received: 10/12/2020  
 Time Received: 11:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SV128-025-204	P2005748-001	Air	10/6/2020	13:41	1SS00851	-3.84	7.36	X
SV128-050-204	P2005748-002	Air	10/6/2020	13:45	1SS00096	-3.30	7.77	X
SV128-150-204	P2005748-003	Air	10/6/2020	13:47	1SC00712	-3.13	7.72	X
SV128-250-204	P2005748-004	Air	10/6/2020	13:52	1SC01189	-4.14	7.67	X
SV128-350-204	P2005748-005	Air	10/6/2020	13:57	1SC00232	-3.02	7.54	X
SV128-450-204	P2005748-006	Air	10/6/2020	14:10	1SC00862	-3.18	8.08	X
SV133-025-204	P2005748-007	Air	10/6/2020	10:45	1SC00133	-3.47	8.40	X
SV133-050-204	P2005748-008	Air	10/6/2020	10:49	1SC00608	-2.99	7.27	X
SV133-170-204	P2005748-009	Air	10/6/2020	10:52	1SC00417	-2.96	7.18	X
SV133-250-204	P2005748-010	Air	10/6/2020	10:55	1SS00491	-3.37	7.59	X
SV133-250-604	P2005748-011	Air	10/6/2020	10:55	1SC01266	-3.63	7.77	X
SV133-350-204	P2005748-012	Air	10/6/2020	10:59	1SC00781	-3.15	8.64	X
SV133-450-204	P2005748-013	Air	10/6/2020	11:08	1SS00230	-3.39	8.88	X
SV136-025-204	P2005748-014	Air	10/6/2020	11:02	1SC00870	-2.77	9.08	X
SV136-050-204	P2005748-015	Air	10/6/2020	11:05	1SC00440	-2.49	8.30	X
SV136-150-204	P2005748-016	Air	10/6/2020	11:09	1SS00716	-3.88	7.20	X
SV136-250-204	P2005748-017	Air	10/6/2020	11:12	1SS00941	-3.22	8.67	X
SV136-350-204	P2005748-018	Air	10/6/2020	11:16	1SC01369	-2.70	8.04	X
SV136-450-204	P2005748-019	Air	10/6/2020	11:25	1SS00058	-2.85	7.75	X
SV138-025-204	P2005748-020	Air	10/6/2020	09:24	1SS00991	-3.16	7.61	X
SVTB204-01	P2005748-021	Air	10/7/2020	14:00	1SC00125	-14.15	7.24	X



# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**COC #:** **COC-SV204-09**

**Requested Turnaround Time in Business Days**  
 10 Day-Standard

ALS Project No: **21005748**

<b>Company Name &amp; Address (Reporting Information)</b> EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000		<b>Project Name</b> Kirtland AFB Bulk Fuels Facility		<b>ALS Contact:</b> Kate Kaneko 1 (805) 577-2089		<b>Analysis Method</b> TO-15 Project Specific List	<b>Comments</b> e.g. Actual Preservative or specific instructions
<b>Project Manager / Project Chemist</b> Devon Jericinovic (505) 715-4248 / Pam Moss (303) 590-9143 Email Address for Result Reporting		<b>Project Number</b> 62735DM02		<b>Requested Turnaround Time in Business Days</b> 10 Day-Standard			
<b>Tara Lamond:</b> <a href="mailto:tiamond@east.com">tiamond@east.com</a>		<b>Flow Controller ID</b> (Bar code # - FC #) NA		<b>Canister</b> Start Pressure "Hg -26.0		<b>Sample</b> Volume 1L	
<b>Amanda Smith:</b> <a href="mailto:asmith@east.com">asmith@east.com</a>		<b>Canister ID</b> (Bar code # - AC, SC, etc.) 1SS00096		<b>Canister</b> End Pressure "Hg/psig -2.0		X	
<b>Pam Moss:</b> <a href="mailto:pmoss@east.com">pmoss@east.com</a>		<b>Sampler (Print &amp; Sign)</b> Stephen Newman		<b>Canister</b> Start Pressure "Hg -29.5		X	
<b>Client Sample ID</b> SV128-025-204		<b>Laboratory ID Number</b> 1		<b>Canister</b> Start Pressure "Hg -27.0		X	
SV128-050-204		2		<b>Canister</b> Start Pressure "Hg -27.5		X	
SV128-150-204		3		<b>Canister</b> Start Pressure "Hg -27.0		X	
SV128-250-204		4		<b>Canister</b> Start Pressure "Hg -25.0		X	
SV128-350-204		5		<b>Canister</b> Start Pressure "Hg -24.0		X	
SV128-450-204		6		<b>Canister</b> Start Pressure "Hg -25.0		X	
SV133-025-204		7		<b>Canister</b> Start Pressure "Hg -24.0		X	
SV133-050-204		8		<b>Canister</b> Start Pressure "Hg -25.0		X	
SV133-170-204		9		<b>Canister</b> Start Pressure "Hg -1.0		X	
SV133-250-204		10		<b>Canister</b> Start Pressure "Hg -25.0		X	
FedEX Tracking Number: <b>1028 3402 2261</b>							
Shipping information: Box number <b>15 of 6</b>							
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/> X							
Relinquished by: (Signature) 		Date: <b>10/16/20</b> Time: <b>1500</b>		EDD required: <b>Yes</b> Type: <b>ERPIMS / EQUIS</b>		Chain of Custody Seal: (Circle) INTACT <input checked="" type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT	
Relinquished by: (Signature) 		Date: <b>10/16/20</b> Time: <b>1100</b>		Received by: (Signature) 		Project Requirements: QAPP	
		Date: _____ Time: _____		Received by: (Signature)		Cooler / Blank Temperature <u>NA</u> °C	



# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
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 Phone (805) 526-7161  
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COC #: **COC-SV204-10**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **2005748**  
 ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Company Name & Address (Reporting Information)		Project Name		Analysis Method		Comments e.g. Actual Preservative or specific instructions
EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000		Kirtland AFB Bulk Fuels Facility		TO-15 Project Specific List		
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143		Project Number 62735DM02		P.O. # / Billing Information 17682		Project Requirements: OAPP
Email Address for Result Reporting		Sampler (Print & Sign) <i>Stephen Newman</i>		Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT		
Tara Lamond: Amanda Smith: Pam Moss:		Flow Controller ID (Bar code # - FC #)		Date: Time:		Cooler / Blank Temperature NA °C
tiamond@east.com asmith@east.com pmoss@east.com		Canister Start Pressure "Hg		Date: Time:		
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister End Pressure "Hg/psig	Sample Volume	
SV133-250-604	11	10/6/2020	1055	-25.0	1L	X
SV133-350-204	12	10/6/2020	1059	-26.0	1L	X
SV133-450-204	13	10/6/2020	1108	-26.0	1L	X
SV136-025-204	14	10/6/2020	1102	-24.5	1L	X
SV136-050-204	15	10/6/2020	1105	-23.5	1L	X
SV136-150-204	16	10/6/2020	1109	-26.5	1L	X
SV136-250-204	17	10/6/2020	1112	-27.0	1L	X
SV136-350-204	18	10/6/2020	1116	-27.0	1L	X
SV136-450-204	19	10/6/2020	1125	-26.5	1L	X
SV138-025-204	20	10/6/2020	0924	-26.0	1L	X
SVTB204-01	21	10/7/2020	1400	-23.0	1L	X

FedEX Tracking Number: **1028 3402 2261**

Shipping information: Box number **5** of **6**

Report Tier Levels - please select  
 Tier I (Results + QC Summaries) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) *[Signature]*  
 Date: **10/7/20** Time: **1500**

Relinquished by: (Signature) *[Signature]*  
 Date: **10/12/20** Time: **1100**

Received by: (Signature) *[Signature]*  
 Date: **10/12/20** Time: **1100**

Received by: (Signature) \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2005748  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/12/20 Date opened: 10/12/20 by: DENISE.POSADA

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | <u>Yes</u>                          | <u>No</u>                | <u>N/A</u>                          |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2005748-001.01	1.0 L Source Silonite Canister					
P2005748-002.01	1.0 L Source Silonite Canister					
P2005748-003.01	1.0 L Source Can					
P2005748-004.01	1.0 L Source Can					
P2005748-005.01	1.0 L Source Can					
P2005748-006.01	1.0 L Source Can					
P2005748-007.01	1.0 L Source Can					
P2005748-008.01	1.0 L Source Can					
P2005748-009.01	1.0 L Source Can					
P2005748-010.01	1.0 L Source Silonite Canister					
P2005748-011.01	1.0 L Source Can					
P2005748-012.01	1.0 L Source Can					
P2005748-013.01	1.0 L Source Silonite Canister					
P2005748-014.01	1.0 L Source Can					
P2005748-015.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00851

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.84 Final Pressure (psig): 7.36

Container Dilution Factor: 2.03

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.59</b>	1.5	0.94	0.38	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>61</b>	0.53	0.33	0.089	
74-87-3	Chloromethane	0.79	1.3	0.79	0.21	<b>U</b>
75-01-4	Vinyl Chloride	0.34	1.1	0.34	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.73	1.2	0.73	0.20	<b>U</b>
75-00-3	Chloroethane	0.62	1.0	0.62	0.13	<b>U</b>
64-17-5	Ethanol	<b>14</b>	14	2.2	1.0	<b>J</b>
67-64-1	Acetone	<b>8.7</b>	11	5.8	2.6	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>9.2</b>	0.46	0.29	0.073	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.45	<b>U</b>
75-09-2	Methylene Chloride	0.47	0.76	0.47	0.22	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>6.9</b>	0.35	0.11	0.050	
75-15-0	Carbon Disulfide	<b>15</b>	1.6	0.88	0.26	
75-34-3	1,1-Dichloroethane	0.41	0.68	0.41	0.098	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.6</b>	1.7	0.55	0.19	<b>J</b>
141-78-6	Ethyl Acetate	<b>2.8</b>	1.4	0.92	0.39	
110-54-3	n-Hexane	<b>2.0</b>	0.75	0.46	0.16	
67-66-3	Chloroform	<b>2.0</b>	0.55	0.18	0.074	
109-99-9	Tetrahydrofuran (THF)	<b>0.35</b>	1.7	0.29	0.12	<b>J</b>
107-06-2	1,2-Dichloroethane	0.21	0.65	0.21	0.074	<b>U</b>
71-43-2	Benzene	<b>1.6</b>	0.83	0.27	0.12	
56-23-5	Carbon Tetrachloride	<b>11</b>	0.41	0.14	0.060	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00851

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.84 Final Pressure (psig): 7.36

Container Dilution Factor: 2.03

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1.2</b>	1.5	0.50	0.22	<b>J</b>
75-27-4	Bromodichloromethane	0.13	0.39	0.13	0.058	<b>U</b>
79-01-6	Trichloroethene	<b>0.15</b>	0.48	0.16	0.068	<b>J</b>
123-91-1	1,4-Dioxane	0.24	0.73	0.24	0.089	<b>U</b>
142-82-5	n-Heptane	<b>4.4</b>	0.64	0.40	0.11	
108-10-1	4-Methyl-2-pentanone	<b>0.13</b>	1.2	0.21	0.090	<b>J</b>
108-88-3	Toluene	<b>8.8</b>	0.70	0.23	0.088	
591-78-6	2-Hexanone	0.21	1.2	0.21	0.082	<b>U</b>
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	<b>U</b>
106-93-4	1,2-Dibromoethane	<b>0.056</b>	0.34	0.11	0.041	<b>J</b>
127-18-4	Tetrachloroethene	<b>0.32</b>	0.39	0.13	0.052	<b>J</b>
100-41-4	Ethylbenzene	<b>1.2</b>	0.61	0.20	0.088	
179601-23-1	m,p-Xylenes	<b>8.1</b>	1.2	0.40	0.16	
75-25-2	Bromoform	0.16	0.26	0.16	0.054	<b>U</b>
100-42-5	Styrene	0.38	0.62	0.38	0.10	<b>U</b>
95-47-6	o-Xylene	<b>4.3</b>	0.62	0.20	0.090	
108-67-8	1,3,5-Trimethylbenzene	<b>1.5</b>	0.55	0.18	0.080	
95-63-6	1,2,4-Trimethylbenzene	<b>2.9</b>	0.54	0.18	0.076	
120-82-1	1,2,4-Trichlorobenzene	0.22	0.68	0.22	0.089	<b>U</b>
91-20-3	Naphthalene	<b>0.72</b>	0.50	0.30	0.13	
1330-20-7	Xylenes, Total	<b>12</b>	1.2	0.40	0.16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00096

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.30 Final Pressure (psig): 7.77

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	4.8	1.5	0.92	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	110	5.2	3.2	0.87	D
74-87-3	Chloromethane	0.36	1.2	0.76	0.21	J
75-01-4	Vinyl Chloride	0.33	1.0	0.33	0.11	U
106-99-0	1,3-Butadiene	0.71	1.2	0.71	0.20	U
75-00-3	Chloroethane	0.13	0.97	0.60	0.12	J
64-17-5	Ethanol	11	14	2.2	0.97	J
67-64-1	Acetone	21	11	5.6	2.5	
75-69-4	Trichlorofluoromethane	14	0.45	0.28	0.071	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.1	2.0	1.3	0.44	
75-09-2	Methylene Chloride	0.45	0.74	0.45	0.21	U
76-13-1	Trichlorotrifluoroethane	13	0.34	0.11	0.049	
75-15-0	Carbon Disulfide	26	1.6	0.85	0.25	
75-34-3	1,1-Dichloroethane	0.40	0.66	0.40	0.095	U
78-93-3	2-Butanone (MEK)	4.1	1.7	0.53	0.18	
141-78-6	Ethyl Acetate	0.89	1.4	0.89	0.38	U
110-54-3	n-Hexane	1.3	0.73	0.45	0.15	
67-66-3	Chloroform	0.40	0.53	0.17	0.072	J
109-99-9	Tetrahydrofuran (THF)	0.32	1.7	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.21	0.63	0.21	0.072	U
71-43-2	Benzene	3.2	0.80	0.26	0.12	
56-23-5	Carbon Tetrachloride	17	0.40	0.13	0.058	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00096

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.30 Final Pressure (psig): 7.77

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	2.7	1.4	0.49	0.21	
75-27-4	Bromodichloromethane	0.13	0.38	0.13	0.057	U
79-01-6	Trichloroethene	0.20	0.47	0.16	0.066	J
123-91-1	1,4-Dioxane	1.5	0.71	0.23	0.086	
142-82-5	n-Heptane	2.9	0.63	0.38	0.10	
108-10-1	4-Methyl-2-pentanone	0.26	1.2	0.20	0.088	J
108-88-3	Toluene	9.3	0.68	0.22	0.085	
591-78-6	2-Hexanone	1.1	1.2	0.20	0.079	J
124-48-1	Dibromochloromethane	0.098	0.30	0.098	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.040	U
127-18-4	Tetrachloroethene	0.34	0.38	0.12	0.050	J
100-41-4	Ethylbenzene	1.7	0.59	0.19	0.085	
179601-23-1	m,p-Xylenes	6.7	1.1	0.39	0.16	
75-25-2	Bromoform	0.15	0.25	0.15	0.052	U
100-42-5	Styrene	0.37	0.60	0.37	0.10	U
95-47-6	o-Xylene	3.0	0.60	0.19	0.087	
108-67-8	1,3,5-Trimethylbenzene	1.2	0.53	0.17	0.077	
95-63-6	1,2,4-Trimethylbenzene	3.2	0.52	0.17	0.074	
120-82-1	1,2,4-Trichlorobenzene	0.21	0.66	0.21	0.086	U
91-20-3	Naphthalene	2.3	0.49	0.29	0.12	
1330-20-7	Xylenes, Total	9.8	1.1	0.39	0.16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00712

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.13 Final Pressure (psig): 7.72

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.3	1.5	0.90	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	110	5.1	3.1	0.85	D
74-87-3	Chloromethane	0.23	1.2	0.75	0.20	J
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	U
75-00-3	Chloroethane	0.59	0.96	0.59	0.12	U
64-17-5	Ethanol	4.6	14	2.1	0.95	J
67-64-1	Acetone	17	11	5.5	2.5	
75-69-4	Trichlorofluoromethane	12	0.44	0.28	0.070	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.47	2.0	1.2	0.43	J
75-09-2	Methylene Chloride	0.45	0.73	0.45	0.21	U
76-13-1	Trichlorotrifluoroethane	17	0.34	0.11	0.048	
75-15-0	Carbon Disulfide	11	1.6	0.84	0.25	
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	U
78-93-3	2-Butanone (MEK)	3.0	1.6	0.53	0.18	
141-78-6	Ethyl Acetate	0.78	1.3	0.88	0.38	J
110-54-3	n-Hexane	0.84	0.72	0.44	0.15	
67-66-3	Chloroform	9.6	0.53	0.17	0.071	
109-99-9	Tetrahydrofuran (THF)	9.8	1.6	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.071	U
71-43-2	Benzene	0.95	0.79	0.26	0.12	
56-23-5	Carbon Tetrachloride	24	0.39	0.13	0.057	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00712

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.13 Final Pressure (psig): 7.72

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.59</b>	1.4	0.48	0.21	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.38	0.12	0.056	<b>U</b>
79-01-6	Trichloroethene	<b>3.4</b>	0.46	0.15	0.065	
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.085	<b>U</b>
142-82-5	n-Heptane	<b>2.4</b>	0.62	0.38	0.10	
108-10-1	4-Methyl-2-pentanone	<b>0.094</b>	1.2	0.20	0.086	<b>J</b>
108-88-3	Toluene	<b>4.7</b>	0.67	0.22	0.084	
591-78-6	2-Hexanone	0.20	1.2	0.20	0.078	<b>U</b>
124-48-1	Dibromochloromethane	0.097	0.30	0.097	0.040	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.47</b>	0.37	0.12	0.049	
100-41-4	Ethylbenzene	<b>0.55</b>	0.58	0.19	0.084	<b>J</b>
179601-23-1	m,p-Xylenes	<b>3.1</b>	1.1	0.38	0.16	
75-25-2	Bromoform	0.15	0.25	0.15	0.052	<b>U</b>
100-42-5	Styrene	<b>0.15</b>	0.59	0.36	0.098	<b>J</b>
95-47-6	o-Xylene	<b>1.3</b>	0.59	0.19	0.086	
108-67-8	1,3,5-Trimethylbenzene	<b>0.37</b>	0.52	0.17	0.076	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.87</b>	0.51	0.17	0.073	
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	<b>U</b>
91-20-3	Naphthalene	<b>0.24</b>	0.48	0.29	0.12	<b>J</b>
1330-20-7	Xylenes, Total	<b>4.4</b>	1.1	0.38	0.16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01189

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00080 Liter(s)

0.00020 Liter(s)

Initial Pressure (psig): -4.14 Final Pressure (psig): 7.67

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	490	800	490	200	U
75-71-8	Dichlorodifluoromethane (CFC 12)	170	280	170	47	U
74-87-3	Chloromethane	410	670	410	110	U
75-01-4	Vinyl Chloride	180	550	180	59	U
106-99-0	1,3-Butadiene	380	620	380	110	U
75-00-3	Chloroethane	320	520	320	66	U
64-17-5	Ethanol	1,200	7,500	1,200	520	U
67-64-1	Acetone	3,000	5,800	3,000	1,300	U
75-69-4	Trichlorofluoromethane	150	240	150	38	U
67-63-0	2-Propanol (Isopropyl Alcohol)	680	1,100	680	240	U
75-09-2	Methylene Chloride	240	400	240	110	U
76-13-1	Trichlorotrifluoroethane	34	180	59	26	J
75-15-0	Carbon Disulfide	460	850	460	140	U
75-34-3	1,1-Dichloroethane	220	350	220	51	U
78-93-3	2-Butanone (MEK)	290	900	290	99	U
141-78-6	Ethyl Acetate	480	740	480	210	U
110-54-3	n-Hexane	71,000	390	240	83	
67-66-3	Chloroform	92	290	92	39	U
109-99-9	Tetrahydrofuran (THF)	150	900	150	60	U
107-06-2	1,2-Dichloroethane	110	340	110	39	U
71-43-2	Benzene	6,900	430	140	64	
56-23-5	Carbon Tetrachloride	72	210	72	31	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01189

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00080 Liter(s)

0.00020 Liter(s)

Initial Pressure (psig): -4.14 Final Pressure (psig): 7.67

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	120,000	770	260	120	
75-27-4	Bromodichloromethane	67	210	67	30	U
79-01-6	Trichloroethene	84	250	84	36	U
123-91-1	1,4-Dioxane	130	380	130	46	U
142-82-5	n-Heptane	130,000	1,300	830	220	D
108-10-1	4-Methyl-2-pentanone	110	650	110	47	U
108-88-3	Toluene	120	370	120	46	U
591-78-6	2-Hexanone	110	650	110	43	U
124-48-1	Dibromochloromethane	53	160	53	22	U
106-93-4	1,2-Dibromoethane	59	180	59	21	U
127-18-4	Tetrachloroethene	66	200	66	27	U
100-41-4	Ethylbenzene	3,800	320	100	46	
179601-23-1	m,p-Xylenes	8,300	610	210	85	
75-25-2	Bromoform	82	140	82	28	U
100-42-5	Styrene	200	320	200	54	U
95-47-6	o-Xylene	100	320	100	47	U
108-67-8	1,3,5-Trimethylbenzene	350	290	92	42	
95-63-6	1,2,4-Trimethylbenzene	350	280	92	40	
120-82-1	1,2,4-Trichlorobenzene	110	360	110	46	U
91-20-3	Naphthalene	160	260	160	66	U
1330-20-7	Xylenes, Total	8,300	610	210	85	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00232

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00050 Liter(s)

Initial Pressure (psig): -3.02 Final Pressure (psig): 7.54

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	6,200	1,100	710	290	
75-71-8	Dichlorodifluoromethane (CFC 12)	300	400	250	67	J
74-87-3	Chloromethane	590	960	590	160	U
75-01-4	Vinyl Chloride	250	790	250	85	U
106-99-0	1,3-Butadiene	550	890	550	150	U
75-00-3	Chloroethane	460	750	460	95	U
64-17-5	Ethanol	1,700	11,000	1,700	750	U
67-64-1	Acetone	4,300	8,300	4,300	1,900	U
75-69-4	Trichlorofluoromethane	220	350	220	55	U
67-63-0	2-Propanol (Isopropyl Alcohol)	970	1,500	970	340	U
75-09-2	Methylene Chloride	350	570	350	160	U
76-13-1	Trichlorotrifluoroethane	84	260	84	38	U
75-15-0	Carbon Disulfide	660	1,200	660	200	U
75-34-3	1,1-Dichloroethane	310	510	310	73	U
78-93-3	2-Butanone (MEK)	410	1,300	410	140	U
141-78-6	Ethyl Acetate	690	1,100	690	300	U
110-54-3	n-Hexane	76,000	560	350	120	
67-66-3	Chloroform	130	410	130	55	U
109-99-9	Tetrahydrofuran (THF)	220	1,300	220	86	U
107-06-2	1,2-Dichloroethane	160	490	160	55	U
71-43-2	Benzene	23,000	620	200	92	
56-23-5	Carbon Tetrachloride	100	310	100	45	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-005

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00050 Liter(s)

Test Notes:

Container ID: 1SC00232

Initial Pressure (psig): -3.02 Final Pressure (psig): 7.54

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>120,000</b>	1,100	380	170	
75-27-4	Bromodichloromethane	96	300	96	44	U
79-01-6	Trichloroethene	120	360	120	51	U
123-91-1	1,4-Dioxane	180	550	180	66	U
142-82-5	n-Heptane	<b>88,000</b>	480	300	79	
108-10-1	4-Methyl-2-pentanone	160	930	160	68	U
108-88-3	Toluene	<b>78,000</b>	520	170	66	
591-78-6	2-Hexanone	160	930	160	61	U
124-48-1	Dibromochloromethane	76	230	76	31	U
106-93-4	1,2-Dibromoethane	84	260	84	31	U
127-18-4	Tetrachloroethene	95	290	95	39	U
100-41-4	Ethylbenzene	<b>3,900</b>	460	150	66	
179601-23-1	m,p-Xylenes	<b>24,000</b>	880	300	120	
75-25-2	Bromoform	120	190	120	40	U
100-42-5	Styrene	290	460	290	77	U
95-47-6	o-Xylene	<b>9,900</b>	460	150	67	
108-67-8	1,3,5-Trimethylbenzene	<b>980</b>	410	130	60	
95-63-6	1,2,4-Trimethylbenzene	<b>850</b>	400	130	57	
120-82-1	1,2,4-Trichlorobenzene	160	510	160	67	U
91-20-3	Naphthalene	220	380	220	94	U
1330-20-7	Xylenes, Total	<b>34,000</b>	880	300	120	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00862

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00025 Liter(s)

0.00010 Liter(s)

Initial Pressure (psig): -3.18 Final Pressure (psig): 8.08

Container Dilution Factor: 1.98

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	11,000	2,400	1,500	600	
75-71-8	Dichlorodifluoromethane (CFC 12)	460	830	510	140	J
74-87-3	Chloromethane	1,200	2,000	1,200	330	U
75-01-4	Vinyl Chloride	530	1,600	530	180	U
106-99-0	1,3-Butadiene	1,100	1,900	1,100	320	U
75-00-3	Chloroethane	960	1,600	960	200	U
64-17-5	Ethanol	3,500	22,000	3,500	1,600	U
67-64-1	Acetone	9,000	17,000	9,000	4,000	U
75-69-4	Trichlorofluoromethane	450	720	450	110	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,000	3,200	2,000	710	U
75-09-2	Methylene Chloride	730	1,200	730	340	U
76-13-1	Trichlorotrifluoroethane	180	550	180	79	U
75-15-0	Carbon Disulfide	1,400	2,500	1,400	410	U
75-34-3	1,1-Dichloroethane	650	1,100	650	150	U
78-93-3	2-Butanone (MEK)	330	2,700	860	300	J
141-78-6	Ethyl Acetate	1,400	2,200	1,400	620	U
110-54-3	n-Hexane	180,000	1,200	720	250	
67-66-3	Chloroform	280	860	280	120	U
109-99-9	Tetrahydrofuran (THF)	460	2,700	460	180	U
107-06-2	1,2-Dichloroethane	330	1,000	330	120	U
71-43-2	Benzene	8,200	1,300	420	190	
56-23-5	Carbon Tetrachloride	210	640	210	93	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00862

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00025 Liter(s)

0.00010 Liter(s)

Initial Pressure (psig): -3.18 Final Pressure (psig): 8.08

Container Dilution Factor: 1.98

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	230,000	2,300	780	350	
75-27-4	Bromodichloromethane	200	610	200	91	U
79-01-6	Trichloroethene	250	750	250	110	U
123-91-1	1,4-Dioxane	370	1,100	370	140	U
142-82-5	n-Heptane	360,000	2,500	1,500	410	D
108-10-1	4-Methyl-2-pentanone	650	1,900	330	140	J
108-88-3	Toluene	41,000	1,100	360	140	
591-78-6	2-Hexanone	330	1,900	330	130	U
124-48-1	Dibromochloromethane	160	480	160	65	U
106-93-4	1,2-Dibromoethane	180	540	180	64	U
127-18-4	Tetrachloroethene	200	610	200	81	U
100-41-4	Ethylbenzene	3,000	950	310	140	
179601-23-1	m,p-Xylenes	51,000	1,800	620	260	
75-25-2	Bromoform	250	410	250	84	U
100-42-5	Styrene	600	970	600	160	U
95-47-6	o-Xylene	14,000	970	310	140	
108-67-8	1,3,5-Trimethylbenzene	900	850	270	120	
95-63-6	1,2,4-Trimethylbenzene	1,000	840	270	120	
120-82-1	1,2,4-Trichlorobenzene	340	1,100	340	140	U
91-20-3	Naphthalene	470	790	470	200	U
1330-20-7	Xylenes, Total	65,000	1,800	620	260	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00133

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.47 Final Pressure (psig): 8.40

Container Dilution Factor: 2.06

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.53</b>	1.6	0.96	0.39	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.49</b>	0.54	0.33	0.091	<b>J</b>
74-87-3	Chloromethane	0.80	1.3	0.80	0.21	<b>U</b>
75-01-4	Vinyl Chloride	0.34	1.1	0.34	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.75	1.2	0.75	0.20	<b>U</b>
75-00-3	Chloroethane	0.62	1.0	0.62	0.13	<b>U</b>
64-17-5	Ethanol	<b>3.1</b>	14	2.3	1.0	<b>J</b>
67-64-1	Acetone	<b>130</b>	11	5.9	2.6	
75-69-4	Trichlorofluoromethane	<b>0.19</b>	0.47	0.29	0.074	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.46	<b>U</b>
75-09-2	Methylene Chloride	0.47	0.77	0.47	0.22	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.34</b>	0.36	0.11	0.051	<b>J</b>
75-15-0	Carbon Disulfide	<b>0.47</b>	1.7	0.89	0.26	<b>J</b>
75-34-3	1,1-Dichloroethane	0.42	0.69	0.42	0.099	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>3.1</b>	1.7	0.56	0.19	
141-78-6	Ethyl Acetate	0.93	1.4	0.93	0.40	<b>U</b>
110-54-3	n-Hexane	<b>0.35</b>	0.76	0.47	0.16	<b>J</b>
67-66-3	Chloroform	<b>0.11</b>	0.56	0.18	0.075	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>0.31</b>	1.7	0.30	0.12	<b>J</b>
107-06-2	1,2-Dichloroethane	0.22	0.66	0.22	0.075	<b>U</b>
71-43-2	Benzene	<b>0.17</b>	0.84	0.27	0.12	<b>J</b>
56-23-5	Carbon Tetrachloride	0.14	0.42	0.14	0.061	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00133

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.47 Final Pressure (psig): 8.40

Container Dilution Factor: 2.06

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.38</b>	1.5	0.51	0.22	<b>J</b>
75-27-4	Bromodichloromethane	0.13	0.40	0.13	0.059	<b>U</b>
79-01-6	Trichloroethene	<b>5.2</b>	0.49	0.16	0.069	
123-91-1	1,4-Dioxane	0.24	0.74	0.24	0.090	<b>U</b>
142-82-5	n-Heptane	<b>1.3</b>	0.65	0.40	0.11	
108-10-1	4-Methyl-2-pentanone	<b>0.16</b>	1.3	0.21	0.092	<b>J</b>
108-88-3	Toluene	<b>1.2</b>	0.71	0.23	0.089	
591-78-6	2-Hexanone	0.21	1.3	0.21	0.083	<b>U</b>
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.35	0.11	0.042	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.41</b>	0.40	0.13	0.052	
100-41-4	Ethylbenzene	<b>0.42</b>	0.62	0.20	0.089	<b>J</b>
179601-23-1	m,p-Xylenes	<b>5.6</b>	1.2	0.40	0.17	
75-25-2	Bromoform	0.16	0.26	0.16	0.055	<b>U</b>
100-42-5	Styrene	0.39	0.63	0.39	0.10	<b>U</b>
95-47-6	o-Xylene	<b>2.3</b>	0.63	0.20	0.091	
108-67-8	1,3,5-Trimethylbenzene	<b>1.1</b>	0.56	0.18	0.081	
95-63-6	1,2,4-Trimethylbenzene	<b>3.2</b>	0.54	0.18	0.078	
120-82-1	1,2,4-Trichlorobenzene	0.22	0.69	0.22	0.090	<b>U</b>
91-20-3	Naphthalene	<b>0.37</b>	0.51	0.30	0.13	<b>J</b>
1330-20-7	Xylenes, Total	<b>8.0</b>	1.2	0.40	0.17	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00608

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.27

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.0	1.4	0.87	0.36	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.48	0.49	0.30	0.083	J
74-87-3	Chloromethane	0.24	1.2	0.73	0.20	J
75-01-4	Vinyl Chloride	0.31	0.97	0.31	0.10	U
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	U
75-00-3	Chloroethane	0.57	0.93	0.57	0.12	U
64-17-5	Ethanol	7.8	13	2.1	0.92	J
67-64-1	Acetone	140	10	5.3	2.4	
75-69-4	Trichlorofluoromethane	0.19	0.43	0.27	0.068	J
67-63-0	2-Propanol (Isopropyl Alcohol)	0.80	1.9	1.2	0.42	J
75-09-2	Methylene Chloride	0.43	0.70	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	0.40	0.33	0.10	0.047	
75-15-0	Carbon Disulfide	12	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	0.38	0.63	0.38	0.091	U
78-93-3	2-Butanone (MEK)	3.0	1.6	0.51	0.18	
141-78-6	Ethyl Acetate	1.4	1.3	0.85	0.37	
110-54-3	n-Hexane	0.26	0.69	0.43	0.15	J
67-66-3	Chloroform	0.15	0.51	0.16	0.068	J
109-99-9	Tetrahydrofuran (THF)	23	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.60	0.20	0.069	U
71-43-2	Benzene	0.22	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	0.13	0.38	0.13	0.055	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00608

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.27

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.25</b>	1.4	0.46	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.054	<b>U</b>
79-01-6	Trichloroethene	<b>8.7</b>	0.45	0.15	0.063	
123-91-1	1,4-Dioxane	0.22	0.68	0.22	0.082	<b>U</b>
142-82-5	n-Heptane	<b>0.92</b>	0.60	0.37	0.098	
108-10-1	4-Methyl-2-pentanone	<b>0.15</b>	1.1	0.20	0.084	<b>J</b>
108-88-3	Toluene	<b>1.1</b>	0.65	0.21	0.081	
591-78-6	2-Hexanone	0.20	1.1	0.20	0.076	<b>U</b>
124-48-1	Dibromochloromethane	0.094	0.29	0.094	0.039	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.48</b>	0.36	0.12	0.048	
100-41-4	Ethylbenzene	<b>0.32</b>	0.56	0.18	0.081	<b>J</b>
179601-23-1	m,p-Xylenes	<b>3.8</b>	1.1	0.37	0.15	
75-25-2	Bromoform	0.15	0.24	0.15	0.050	<b>U</b>
100-42-5	Styrene	0.35	0.57	0.35	0.095	<b>U</b>
95-47-6	o-Xylene	<b>1.6</b>	0.57	0.18	0.083	
108-67-8	1,3,5-Trimethylbenzene	<b>0.76</b>	0.51	0.16	0.074	
95-63-6	1,2,4-Trimethylbenzene	<b>2.1</b>	0.50	0.16	0.071	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.082	<b>U</b>
91-20-3	Naphthalene	<b>0.21</b>	0.47	0.28	0.12	<b>J</b>
1330-20-7	Xylenes, Total	<b>5.4</b>	1.1	0.37	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00417

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.96 Final Pressure (psig): 7.18

Container Dilution Factor: 1.86

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	9.9	1.4	0.86	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.61	0.49	0.30	0.082	
74-87-3	Chloromethane	0.22	1.2	0.72	0.19	J
75-01-4	Vinyl Chloride	0.31	0.96	0.31	0.10	U
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.19	U
75-00-3	Chloroethane	0.56	0.92	0.56	0.12	U
64-17-5	Ethanol	6.2	13	2.0	0.91	J
67-64-1	Acetone	75	10	5.3	2.3	
75-69-4	Trichlorofluoromethane	0.22	0.42	0.26	0.067	J
67-63-0	2-Propanol (Isopropyl Alcohol)	17	1.9	1.2	0.42	
75-09-2	Methylene Chloride	0.43	0.70	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	1.3	0.32	0.10	0.046	
75-15-0	Carbon Disulfide	7.9	1.5	0.81	0.24	
75-34-3	1,1-Dichloroethane	0.38	0.62	0.38	0.090	U
78-93-3	2-Butanone (MEK)	3.2	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	0.84	1.3	0.84	0.36	U
110-54-3	n-Hexane	0.23	0.69	0.42	0.15	J
67-66-3	Chloroform	0.20	0.50	0.16	0.068	J
109-99-9	Tetrahydrofuran (THF)	12	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.60	0.20	0.068	U
71-43-2	Benzene	1.3	0.76	0.25	0.11	
56-23-5	Carbon Tetrachloride	0.31	0.38	0.13	0.055	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00417

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.96 Final Pressure (psig): 7.18

Container Dilution Factor: 1.86

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.23	1.4	0.46	0.20	J
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	U
79-01-6	Trichloroethene	58	0.44	0.15	0.062	
123-91-1	1,4-Dioxane	0.22	0.67	0.22	0.081	U
142-82-5	n-Heptane	0.72	0.59	0.36	0.096	
108-10-1	4-Methyl-2-pentanone	0.11	1.1	0.19	0.083	J
108-88-3	Toluene	0.60	0.64	0.21	0.080	J
591-78-6	2-Hexanone	0.46	1.1	0.19	0.075	J
124-48-1	Dibromochloromethane	0.093	0.28	0.093	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.038	U
127-18-4	Tetrachloroethene	2.0	0.36	0.12	0.047	
100-41-4	Ethylbenzene	0.17	0.56	0.18	0.080	J
179601-23-1	m,p-Xylenes	1.9	1.1	0.36	0.15	
75-25-2	Bromoform	0.14	0.24	0.14	0.049	U
100-42-5	Styrene	0.35	0.57	0.35	0.094	U
95-47-6	o-Xylene	0.79	0.57	0.18	0.082	
108-67-8	1,3,5-Trimethylbenzene	0.38	0.50	0.16	0.073	J
95-63-6	1,2,4-Trimethylbenzene	1.0	0.49	0.16	0.070	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.081	U
91-20-3	Naphthalene	0.15	0.46	0.28	0.12	J
1330-20-7	Xylenes, Total	2.7	1.1	0.36	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00491

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.37 Final Pressure (psig): 7.59

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.92	1.5	0.92	0.37	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.57</b>	0.52	0.32	0.087	
74-87-3	Chloromethane	0.76	1.2	0.76	0.21	U
75-01-4	Vinyl Chloride	0.33	1.0	0.33	0.11	U
106-99-0	1,3-Butadiene	0.71	1.2	0.71	0.20	U
75-00-3	Chloroethane	0.60	0.97	0.60	0.12	U
64-17-5	Ethanol	<b>1.4</b>	14	2.2	0.97	J
67-64-1	Acetone	<b>3.7</b>	11	5.6	2.5	J
75-69-4	Trichlorofluoromethane	<b>0.49</b>	0.45	0.28	0.071	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.0	1.3	0.44	U
75-09-2	Methylene Chloride	0.45	0.74	0.45	0.21	U
76-13-1	Trichlorotrifluoroethane	<b>0.14</b>	0.34	0.11	0.049	J
75-15-0	Carbon Disulfide	<b>3.1</b>	1.6	0.85	0.25	
75-34-3	1,1-Dichloroethane	0.40	0.66	0.40	0.095	U
78-93-3	2-Butanone (MEK)	<b>0.74</b>	1.7	0.53	0.18	J
141-78-6	Ethyl Acetate	0.89	1.4	0.89	0.38	U
110-54-3	n-Hexane	0.45	0.73	0.45	0.15	U
67-66-3	Chloroform	0.17	0.53	0.17	0.072	U
109-99-9	Tetrahydrofuran (THF)	<b>1.0</b>	1.7	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.21	0.63	0.21	0.072	U
71-43-2	Benzene	0.26	0.80	0.26	0.12	U
56-23-5	Carbon Tetrachloride	<b>0.46</b>	0.40	0.13	0.058	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00491

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.37 Final Pressure (psig): 7.59

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.49	1.4	0.49	0.21	U
75-27-4	Bromodichloromethane	0.13	0.38	0.13	0.057	U
79-01-6	Trichloroethene	<b>0.11</b>	0.47	0.16	0.066	J
123-91-1	1,4-Dioxane	<b>0.13</b>	0.71	0.23	0.086	J
142-82-5	n-Heptane	0.38	0.63	0.38	0.10	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.088	U
108-88-3	Toluene	0.22	0.68	0.22	0.085	U
591-78-6	2-Hexanone	0.20	1.2	0.20	0.079	U
124-48-1	Dibromochloromethane	0.098	0.30	0.098	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.040	U
127-18-4	Tetrachloroethene	<b>0.15</b>	0.38	0.12	0.050	J
100-41-4	Ethylbenzene	0.19	0.59	0.19	0.085	U
179601-23-1	m,p-Xylenes	0.39	1.1	0.39	0.16	U
75-25-2	Bromoform	0.15	0.25	0.15	0.052	U
100-42-5	Styrene	0.37	0.60	0.37	0.10	U
95-47-6	o-Xylene	0.19	0.60	0.19	0.087	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.21	0.66	0.21	0.086	U
91-20-3	Naphthalene	0.29	0.49	0.29	0.12	U
1330-20-7	Xylenes, Total	0.39	1.1	0.39	0.16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01266

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21 - 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 7.77

Container Dilution Factor: 2.03

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.59</b>	1.5	0.94	0.38	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.41</b>	0.53	0.33	0.089	<b>J</b>
74-87-3	Chloromethane	0.79	1.3	0.79	0.21	<b>U</b>
75-01-4	Vinyl Chloride	0.34	1.1	0.34	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.73	1.2	0.73	0.20	<b>U</b>
75-00-3	Chloroethane	0.62	1.0	0.62	0.13	<b>U</b>
64-17-5	Ethanol	2.2	14	2.2	1.0	<b>U</b>
67-64-1	Acetone	<b>50</b>	11	5.8	2.6	
75-69-4	Trichlorofluoromethane	<b>0.15</b>	0.46	0.29	0.073	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.45	<b>U</b>
75-09-2	Methylene Chloride	0.47	0.76	0.47	0.22	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>1.8</b>	0.35	0.11	0.050	
75-15-0	Carbon Disulfide	<b>4.7</b>	1.6	0.88	0.26	
75-34-3	1,1-Dichloroethane	0.41	0.68	0.41	0.098	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.8</b>	1.7	0.55	0.19	
141-78-6	Ethyl Acetate	0.92	1.4	0.92	0.39	<b>U</b>
110-54-3	n-Hexane	<b>1.0</b>	0.75	0.46	0.16	
67-66-3	Chloroform	<b>0.48</b>	0.55	0.18	0.074	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>3.5</b>	1.7	0.29	0.12	
107-06-2	1,2-Dichloroethane	0.21	0.65	0.21	0.074	<b>U</b>
71-43-2	Benzene	<b>1.4</b>	0.83	0.27	0.12	
56-23-5	Carbon Tetrachloride	<b>1.1</b>	0.41	0.14	0.060	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01266

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21 - 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 7.77

Container Dilution Factor: 2.03

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.81</b>	1.5	0.50	0.22	<b>J</b>
75-27-4	Bromodichloromethane	0.13	0.39	0.13	0.058	<b>U</b>
79-01-6	Trichloroethene	<b>310</b>	4.8	1.6	0.68	<b>D</b>
123-91-1	1,4-Dioxane	0.24	0.73	0.24	0.089	<b>U</b>
142-82-5	n-Heptane	<b>3.5</b>	0.64	0.40	0.11	
108-10-1	4-Methyl-2-pentanone	0.21	1.2	0.21	0.090	<b>U</b>
108-88-3	Toluene	<b>2.7</b>	0.70	0.23	0.088	
591-78-6	2-Hexanone	0.21	1.2	0.21	0.082	<b>U</b>
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.041	<b>U</b>
127-18-4	Tetrachloroethene	<b>3.3</b>	0.39	0.13	0.052	
100-41-4	Ethylbenzene	<b>0.66</b>	0.61	0.20	0.088	
179601-23-1	m,p-Xylenes	<b>8.1</b>	1.2	0.40	0.16	
75-25-2	Bromoform	0.16	0.26	0.16	0.054	<b>U</b>
100-42-5	Styrene	0.38	0.62	0.38	0.10	<b>U</b>
95-47-6	o-Xylene	<b>3.2</b>	0.62	0.20	0.090	
108-67-8	1,3,5-Trimethylbenzene	<b>1.4</b>	0.55	0.18	0.080	
95-63-6	1,2,4-Trimethylbenzene	<b>3.6</b>	0.54	0.18	0.076	
120-82-1	1,2,4-Trichlorobenzene	0.22	0.68	0.22	0.089	<b>U</b>
91-20-3	Naphthalene	<b>0.35</b>	0.50	0.30	0.13	<b>J</b>
1330-20-7	Xylenes, Total	<b>11</b>	1.2	0.40	0.16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00781

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 8.64

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.1	1.5	0.94	0.38	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.12	0.53	0.33	0.089	J
74-87-3	Chloromethane	0.46	1.3	0.78	0.21	J
75-01-4	Vinyl Chloride	0.34	1.0	0.34	0.11	U
106-99-0	1,3-Butadiene	0.73	1.2	0.73	0.20	U
75-00-3	Chloroethane	0.61	1.0	0.61	0.13	U
64-17-5	Ethanol	4.7	14	2.2	0.99	J
67-64-1	Acetone	27	11	5.7	2.6	
75-69-4	Trichlorofluoromethane	0.29	0.46	0.29	0.073	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.66	2.1	1.3	0.45	J
75-09-2	Methylene Chloride	0.47	0.76	0.47	0.22	U
76-13-1	Trichlorotrifluoroethane	0.24	0.35	0.11	0.050	J
75-15-0	Carbon Disulfide	4.7	1.6	0.88	0.26	
75-34-3	1,1-Dichloroethane	0.41	0.67	0.41	0.097	U
78-93-3	2-Butanone (MEK)	0.55	1.7	0.55	0.19	U
141-78-6	Ethyl Acetate	0.91	1.4	0.91	0.39	U
110-54-3	n-Hexane	0.18	0.75	0.46	0.16	J
67-66-3	Chloroform	0.79	0.55	0.18	0.073	
109-99-9	Tetrahydrofuran (THF)	3.8	1.7	0.29	0.11	
107-06-2	1,2-Dichloroethane	0.21	0.65	0.21	0.074	U
71-43-2	Benzene	1.2	0.82	0.27	0.12	
56-23-5	Carbon Tetrachloride	0.28	0.41	0.14	0.059	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00781

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 8.64

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.50	1.5	0.50	0.22	U
75-27-4	Bromodichloromethane	0.13	0.39	0.13	0.058	U
79-01-6	Trichloroethene	<b>73</b>	0.48	0.16	0.068	
123-91-1	1,4-Dioxane	0.24	0.73	0.24	0.088	U
142-82-5	n-Heptane	<b>0.49</b>	0.64	0.39	0.10	J
108-10-1	4-Methyl-2-pentanone	0.21	1.2	0.21	0.090	U
108-88-3	Toluene	<b>0.50</b>	0.70	0.23	0.087	J
591-78-6	2-Hexanone	0.21	1.2	0.21	0.081	U
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	U
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.041	U
127-18-4	Tetrachloroethene	<b>0.40</b>	0.39	0.13	0.051	
100-41-4	Ethylbenzene	<b>0.10</b>	0.60	0.20	0.087	J
179601-23-1	m,p-Xylenes	<b>1.2</b>	1.2	0.40	0.16	J
75-25-2	Bromoform	0.16	0.26	0.16	0.054	U
100-42-5	Styrene	<b>0.11</b>	0.62	0.38	0.10	J
95-47-6	o-Xylene	<b>0.46</b>	0.62	0.20	0.090	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.23</b>	0.54	0.17	0.079	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.64</b>	0.53	0.17	0.076	
120-82-1	1,2,4-Trichlorobenzene	0.22	0.68	0.22	0.088	U
91-20-3	Naphthalene	0.30	0.50	0.30	0.13	U
1330-20-7	Xylenes, Total	<b>1.6</b>	1.2	0.40	0.16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00230

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.025 Liter(s)

Initial Pressure (psig): -3.39 Final Pressure (psig): 8.88

Container Dilution Factor: 2.08

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	72	25	15	6.3	
75-71-8	Dichlorodifluoromethane (CFC 12)	5.4	8.8	5.4	1.5	U
74-87-3	Chloromethane	15	21	13	3.5	J
75-01-4	Vinyl Chloride	2.3	17	5.5	1.9	J
106-99-0	1,3-Butadiene	12	20	12	3.3	U
75-00-3	Chloroethane	10	16	10	2.1	U
64-17-5	Ethanol	37	230	37	16	U
67-64-1	Acetone	95	180	95	42	U
75-69-4	Trichlorofluoromethane	4.7	7.6	4.7	1.2	U
67-63-0	2-Propanol (Isopropyl Alcohol)	21	34	21	7.4	U
75-09-2	Methylene Chloride	7.7	12	7.7	3.6	U
76-13-1	Trichlorotrifluoroethane	1.8	5.8	1.8	0.83	U
75-15-0	Carbon Disulfide	34	27	14	4.3	
75-34-3	1,1-Dichloroethane	6.8	11	6.8	1.6	U
78-93-3	2-Butanone (MEK)	80	28	9.0	3.1	
141-78-6	Ethyl Acetate	15	23	15	6.5	U
110-54-3	n-Hexane	200	12	7.6	2.6	
67-66-3	Chloroform	2.9	9.0	2.9	1.2	U
109-99-9	Tetrahydrofuran (THF)	31	28	4.8	1.9	
107-06-2	1,2-Dichloroethane	3.5	11	3.5	1.2	U
71-43-2	Benzene	320	14	4.4	2.0	
56-23-5	Carbon Tetrachloride	2.2	6.7	2.2	0.98	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00230

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.025 Liter(s)

Initial Pressure (psig): -3.39 Final Pressure (psig): 8.88

Container Dilution Factor: 2.08

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>430</b>	24	8.2	3.6	
75-27-4	Bromodichloromethane	2.1	6.5	2.1	0.96	U
79-01-6	Trichloroethene	<b>26</b>	7.9	2.6	1.1	
123-91-1	1,4-Dioxane	3.9	12	3.9	1.5	U
142-82-5	n-Heptane	<b>85</b>	11	6.5	1.7	
108-10-1	4-Methyl-2-pentanone	<b>7.9</b>	20	3.5	1.5	J
108-88-3	Toluene	<b>120</b>	11	3.8	1.4	
591-78-6	2-Hexanone	3.5	20	3.5	1.3	U
124-48-1	Dibromochloromethane	1.7	5.1	1.7	0.68	U
106-93-4	1,2-Dibromoethane	1.8	5.6	1.8	0.67	U
127-18-4	Tetrachloroethene	2.1	6.4	2.1	0.85	U
100-41-4	Ethylbenzene	<b>5.7</b>	10	3.3	1.4	J
179601-23-1	m,p-Xylenes	<b>9.5</b>	19	6.5	2.7	J
75-25-2	Bromoform	2.6	4.3	2.6	0.89	U
100-42-5	Styrene	6.3	10	6.3	1.7	U
95-47-6	o-Xylene	<b>6.1</b>	10	3.3	1.5	J
108-67-8	1,3,5-Trimethylbenzene	2.9	9.0	2.9	1.3	U
95-63-6	1,2,4-Trimethylbenzene	2.9	8.8	2.9	1.3	U
120-82-1	1,2,4-Trichlorobenzene	3.6	11	3.6	1.5	U
91-20-3	Naphthalene	4.9	8.3	4.9	2.1	U
1330-20-7	Xylenes, Total	<b>16</b>	19	6.5	2.7	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00870

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.77 Final Pressure (psig): 9.08

Container Dilution Factor: 1.99

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.79</b>	1.5	0.93	0.38	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.45</b>	0.52	0.32	0.088	<b>J</b>
74-87-3	Chloromethane	0.77	1.3	0.77	0.21	<b>U</b>
75-01-4	Vinyl Chloride	0.33	1.0	0.33	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.72	1.2	0.72	0.20	<b>U</b>
75-00-3	Chloroethane	0.60	0.98	0.60	0.12	<b>U</b>
64-17-5	Ethanol	<b>6.6</b>	14	2.2	0.98	<b>J</b>
67-64-1	Acetone	<b>49</b>	11	5.7	2.5	
75-69-4	Trichlorofluoromethane	<b>0.20</b>	0.45	0.28	0.072	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.63</b>	2.0	1.3	0.45	<b>J</b>
75-09-2	Methylene Chloride	0.46	0.74	0.46	0.21	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.056</b>	0.34	0.11	0.049	<b>J</b>
75-15-0	Carbon Disulfide	<b>3.9</b>	1.6	0.86	0.26	
75-34-3	1,1-Dichloroethane	0.41	0.66	0.41	0.096	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>7.9</b>	1.7	0.54	0.19	
141-78-6	Ethyl Acetate	0.90	1.4	0.90	0.39	<b>U</b>
110-54-3	n-Hexane	0.45	0.73	0.45	0.16	<b>U</b>
67-66-3	Chloroform	<b>0.84</b>	0.54	0.17	0.072	
109-99-9	Tetrahydrofuran (THF)	<b>0.17</b>	1.7	0.29	0.11	<b>J</b>
107-06-2	1,2-Dichloroethane	0.21	0.64	0.21	0.073	<b>U</b>
71-43-2	Benzene	0.26	0.81	0.26	0.12	<b>U</b>
56-23-5	Carbon Tetrachloride	0.13	0.40	0.13	0.059	<b>U</b>

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00870

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.77 Final Pressure (psig): 9.08

Container Dilution Factor: 1.99

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.49	1.4	0.49	0.22	U
75-27-4	Bromodichloromethane	<b>0.13</b>	0.39	0.13	0.057	J
79-01-6	Trichloroethene	0.16	0.47	0.16	0.067	U
123-91-1	1,4-Dioxane	0.23	0.72	0.23	0.087	U
142-82-5	n-Heptane	0.39	0.63	0.39	0.10	U
108-10-1	4-Methyl-2-pentanone	<b>0.20</b>	1.2	0.21	0.089	J
108-88-3	Toluene	<b>0.095</b>	0.69	0.22	0.086	J
591-78-6	2-Hexanone	<b>0.52</b>	1.2	0.21	0.080	J
124-48-1	Dibromochloromethane	0.099	0.30	0.099	0.041	U
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.040	U
127-18-4	Tetrachloroethene	<b>0.067</b>	0.38	0.12	0.051	J
100-41-4	Ethylbenzene	0.19	0.60	0.19	0.086	U
179601-23-1	m,p-Xylenes	0.39	1.1	0.39	0.16	U
75-25-2	Bromoform	0.15	0.26	0.15	0.053	U
100-42-5	Styrene	0.37	0.61	0.37	0.10	U
95-47-6	o-Xylene	0.19	0.61	0.19	0.088	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.54	0.17	0.078	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.53	0.17	0.075	U
120-82-1	1,2,4-Trichlorobenzene	0.21	0.67	0.21	0.087	U
91-20-3	Naphthalene	0.29	0.49	0.29	0.12	U
1330-20-7	Xylenes, Total	0.39	1.1	0.39	0.16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00440

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 8.30

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.2	1.4	0.87	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.44	0.49	0.30	0.083	J
74-87-3	Chloromethane	0.51	1.2	0.73	0.20	J
75-01-4	Vinyl Chloride	0.31	0.97	0.31	0.10	U
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	U
75-00-3	Chloroethane	0.57	0.93	0.57	0.12	U
64-17-5	Ethanol	8.3	13	2.1	0.92	J
67-64-1	Acetone	32	10	5.3	2.4	
75-69-4	Trichlorofluoromethane	0.19	0.43	0.27	0.068	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.6	1.9	1.2	0.42	
75-09-2	Methylene Chloride	0.43	0.70	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	0.059	0.33	0.10	0.047	J
75-15-0	Carbon Disulfide	2.0	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	0.38	0.63	0.38	0.091	U
78-93-3	2-Butanone (MEK)	6.0	1.6	0.51	0.18	
141-78-6	Ethyl Acetate	33	1.3	0.85	0.37	
110-54-3	n-Hexane	0.27	0.69	0.43	0.15	J
67-66-3	Chloroform	1.3	0.51	0.16	0.068	
109-99-9	Tetrahydrofuran (THF)	0.48	1.6	0.27	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.60	0.20	0.069	U
71-43-2	Benzene	0.56	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	0.13	0.38	0.13	0.055	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00440

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 8.30

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.46	1.4	0.46	0.20	U
75-27-4	Bromodichloromethane	<b>0.23</b>	0.36	0.12	0.054	J
79-01-6	Trichloroethene	0.15	0.45	0.15	0.063	U
123-91-1	1,4-Dioxane	0.22	0.68	0.22	0.082	U
142-82-5	n-Heptane	<b>0.42</b>	0.60	0.37	0.098	J
108-10-1	4-Methyl-2-pentanone	<b>0.14</b>	1.1	0.20	0.084	J
108-88-3	Toluene	<b>2.1</b>	0.65	0.21	0.081	J
591-78-6	2-Hexanone	<b>0.36</b>	1.1	0.20	0.076	J
124-48-1	Dibromochloromethane	0.094	0.29	0.094	0.039	U
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	U
127-18-4	Tetrachloroethene	<b>0.051</b>	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	<b>0.10</b>	0.56	0.18	0.081	J
179601-23-1	m,p-Xylenes	<b>0.32</b>	1.1	0.37	0.15	J
75-25-2	Bromoform	0.15	0.24	0.15	0.050	U
100-42-5	Styrene	<b>0.14</b>	0.57	0.35	0.095	J
95-47-6	o-Xylene	<b>0.12</b>	0.57	0.18	0.083	J
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.50	0.16	0.071	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.082	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	<b>0.44</b>	1.1	0.37	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00716

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.88 Final Pressure (psig): 7.20

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.94	1.5	0.94	0.38	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.61</b>	0.53	0.33	0.089	
74-87-3	Chloromethane	0.78	1.3	0.78	0.21	U
75-01-4	Vinyl Chloride	0.34	1.0	0.34	0.11	U
106-99-0	1,3-Butadiene	0.73	1.2	0.73	0.20	U
75-00-3	Chloroethane	0.61	1.0	0.61	0.13	U
64-17-5	Ethanol	<b>1.5</b>	14	2.2	0.99	J
67-64-1	Acetone	<b>3.2</b>	11	5.7	2.6	J
75-69-4	Trichlorofluoromethane	<b>0.36</b>	0.46	0.29	0.073	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.45	U
75-09-2	Methylene Chloride	0.47	0.76	0.47	0.22	U
76-13-1	Trichlorotrifluoroethane	<b>0.10</b>	0.35	0.11	0.050	J
75-15-0	Carbon Disulfide	<b>1.1</b>	1.6	0.88	0.26	J
75-34-3	1,1-Dichloroethane	0.41	0.67	0.41	0.097	U
78-93-3	2-Butanone (MEK)	<b>0.50</b>	1.7	0.55	0.19	J
141-78-6	Ethyl Acetate	0.91	1.4	0.91	0.39	U
110-54-3	n-Hexane	0.46	0.75	0.46	0.16	U
67-66-3	Chloroform	<b>0.33</b>	0.55	0.18	0.073	J
109-99-9	Tetrahydrofuran (THF)	<b>0.28</b>	1.7	0.29	0.11	J
107-06-2	1,2-Dichloroethane	0.21	0.65	0.21	0.074	U
71-43-2	Benzene	0.27	0.82	0.27	0.12	U
56-23-5	Carbon Tetrachloride	<b>0.19</b>	0.41	0.14	0.059	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00716

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.88 Final Pressure (psig): 7.20

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.50	1.5	0.50	0.22	U
75-27-4	Bromodichloromethane	<b>0.097</b>	0.39	0.13	0.058	J
79-01-6	Trichloroethene	0.16	0.48	0.16	0.068	U
123-91-1	1,4-Dioxane	0.24	0.73	0.24	0.088	U
142-82-5	n-Heptane	0.39	0.64	0.39	0.10	U
108-10-1	4-Methyl-2-pentanone	0.21	1.2	0.21	0.090	U
108-88-3	Toluene	0.23	0.70	0.23	0.087	U
591-78-6	2-Hexanone	0.21	1.2	0.21	0.081	U
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	U
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.041	U
127-18-4	Tetrachloroethene	<b>0.080</b>	0.39	0.13	0.051	J
100-41-4	Ethylbenzene	0.20	0.60	0.20	0.087	U
179601-23-1	m,p-Xylenes	0.40	1.2	0.40	0.16	U
75-25-2	Bromoform	0.16	0.26	0.16	0.054	U
100-42-5	Styrene	0.38	0.62	0.38	0.10	U
95-47-6	o-Xylene	0.20	0.62	0.20	0.090	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.54	0.17	0.079	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.53	0.17	0.076	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.68	0.22	0.088	U
91-20-3	Naphthalene	0.30	0.50	0.30	0.13	U
1330-20-7	Xylenes, Total	0.40	1.2	0.40	0.16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00941

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 8.67

Container Dilution Factor: 2.04

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.88</b>	1.5	0.95	0.39	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.42</b>	0.54	0.33	0.090	<b>J</b>
74-87-3	Chloromethane	0.79	1.3	0.79	0.21	<b>U</b>
75-01-4	Vinyl Chloride	0.34	1.1	0.34	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.74	1.2	0.74	0.20	<b>U</b>
75-00-3	Chloroethane	0.62	1.0	0.62	0.13	<b>U</b>
64-17-5	Ethanol	<b>7.1</b>	14	2.2	1.0	<b>J</b>
67-64-1	Acetone	<b>51</b>	11	5.8	2.6	
75-69-4	Trichlorofluoromethane	<b>0.15</b>	0.46	0.29	0.074	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>2.3</b>	2.1	1.3	0.46	
75-09-2	Methylene Chloride	0.47	0.76	0.47	0.22	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>1.7</b>	0.35	0.11	0.051	
75-15-0	Carbon Disulfide	<b>2.7</b>	1.6	0.88	0.26	
75-34-3	1,1-Dichloroethane	0.42	0.68	0.42	0.098	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>0.97</b>	1.7	0.55	0.19	<b>J</b>
141-78-6	Ethyl Acetate	<b>35</b>	1.4	0.92	0.40	
110-54-3	n-Hexane	<b>0.42</b>	0.75	0.46	0.16	<b>J</b>
67-66-3	Chloroform	<b>0.44</b>	0.55	0.18	0.074	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>2.5</b>	1.7	0.29	0.12	
107-06-2	1,2-Dichloroethane	0.21	0.66	0.21	0.074	<b>U</b>
71-43-2	Benzene	<b>0.55</b>	0.83	0.27	0.12	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>1.0</b>	0.41	0.14	0.060	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00941

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 8.67

Container Dilution Factor: 2.04

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.33</b>	1.5	0.50	0.22	<b>J</b>
75-27-4	Bromodichloromethane	0.13	0.40	0.13	0.059	<b>U</b>
79-01-6	Trichloroethene	<b>320</b>	4.8	1.6	0.68	<b>D</b>
123-91-1	1,4-Dioxane	0.24	0.74	0.24	0.089	<b>U</b>
142-82-5	n-Heptane	<b>1.0</b>	0.65	0.40	0.11	
108-10-1	4-Methyl-2-pentanone	<b>0.11</b>	1.2	0.21	0.091	<b>J</b>
108-88-3	Toluene	<b>2.6</b>	0.70	0.23	0.088	
591-78-6	2-Hexanone	0.21	1.2	0.21	0.082	<b>U</b>
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.35	0.11	0.041	<b>U</b>
127-18-4	Tetrachloroethene	<b>3.1</b>	0.39	0.13	0.052	
100-41-4	Ethylbenzene	<b>0.20</b>	0.61	0.20	0.088	<b>J</b>
179601-23-1	m,p-Xylenes	<b>1.8</b>	1.2	0.40	0.16	
75-25-2	Bromoform	0.16	0.26	0.16	0.054	<b>U</b>
100-42-5	Styrene	<b>0.11</b>	0.62	0.38	0.10	<b>J</b>
95-47-6	o-Xylene	<b>0.77</b>	0.62	0.20	0.090	
108-67-8	1,3,5-Trimethylbenzene	<b>0.34</b>	0.55	0.18	0.080	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.91</b>	0.54	0.18	0.077	
120-82-1	1,2,4-Trichlorobenzene	0.22	0.69	0.22	0.089	<b>U</b>
91-20-3	Naphthalene	0.30	0.51	0.30	0.13	<b>U</b>
1330-20-7	Xylenes, Total	<b>2.6</b>	1.2	0.40	0.16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01369

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.70 Final Pressure (psig): 8.04

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.88	1.4	0.88	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.33</b>	0.50	0.31	0.084	J
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	0.99	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.94	0.58	0.12	U
64-17-5	Ethanol	<b>1.5</b>	13	2.1	0.93	J
67-64-1	Acetone	<b>17</b>	10	5.4	2.4	
75-69-4	Trichlorofluoromethane	<b>0.26</b>	0.43	0.27	0.068	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.71	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	<b>0.066</b>	0.33	0.11	0.047	J
75-15-0	Carbon Disulfide	<b>2.6</b>	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	0.39	0.63	0.39	0.092	U
78-93-3	2-Butanone (MEK)	<b>1.3</b>	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	0.17	0.52	0.17	0.069	U
109-99-9	Tetrahydrofuran (THF)	<b>5.2</b>	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.069	U
71-43-2	Benzene	0.25	0.77	0.25	0.11	U
56-23-5	Carbon Tetrachloride	<b>0.27</b>	0.39	0.13	0.056	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01369

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.70 Final Pressure (psig): 8.04

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	<b>0.15</b>	0.45	0.15	0.064	J
123-91-1	1,4-Dioxane	<b>0.096</b>	0.69	0.22	0.083	J
142-82-5	n-Heptane	0.37	0.60	0.37	0.099	U
108-10-1	4-Methyl-2-pentanone	<b>0.087</b>	1.2	0.20	0.085	J
108-88-3	Toluene	0.21	0.66	0.21	0.082	U
591-78-6	2-Hexanone	<b>0.10</b>	1.2	0.20	0.077	J
124-48-1	Dibromochloromethane	0.095	0.29	0.095	0.039	U
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.038	U
127-18-4	Tetrachloroethene	<b>0.052</b>	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	0.37	1.1	0.37	0.15	U
75-25-2	Bromoform	0.15	0.24	0.15	0.051	U
100-42-5	Styrene	0.36	0.58	0.36	0.096	U
95-47-6	o-Xylene	0.19	0.58	0.19	0.084	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.50	0.16	0.072	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	0.37	1.1	0.37	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00058

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.85 Final Pressure (psig): 7.75

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.4	1.4	0.88	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.25	0.50	0.31	0.083	J
74-87-3	Chloromethane	10	1.2	0.73	0.20	
75-01-4	Vinyl Chloride	4.3	0.98	0.31	0.11	
106-99-0	1,3-Butadiene	0.39	1.1	0.68	0.19	J
75-00-3	Chloroethane	2.1	0.93	0.57	0.12	
64-17-5	Ethanol	1.1	13	2.1	0.93	J
67-64-1	Acetone	7.3	10	5.4	2.4	J
75-69-4	Trichlorofluoromethane	0.17	0.43	0.27	0.068	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.42	U
75-09-2	Methylene Chloride	0.44	0.71	0.44	0.20	U
76-13-1	Trichlorotrifluoroethane	0.048	0.33	0.10	0.047	J
75-15-0	Carbon Disulfide	59	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	0.28	0.63	0.39	0.091	J
78-93-3	2-Butanone (MEK)	2.4	1.6	0.51	0.18	
141-78-6	Ethyl Acetate	0.85	1.3	0.85	0.37	U
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	0.11	0.51	0.16	0.069	J
109-99-9	Tetrahydrofuran (THF)	26	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.31	0.61	0.20	0.069	J
71-43-2	Benzene	0.29	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	0.19	0.38	0.13	0.056	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00058

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.85 Final Pressure (psig): 7.75

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.054	U
79-01-6	Trichloroethene	0.15	0.45	0.15	0.063	U
123-91-1	1,4-Dioxane	<b>0.17</b>	0.68	0.22	0.083	J
142-82-5	n-Heptane	<b>0.15</b>	0.60	0.37	0.098	J
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.084	U
108-88-3	Toluene	<b>0.19</b>	0.65	0.21	0.082	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.076	U
124-48-1	Dibromochloromethane	0.094	0.29	0.094	0.039	U
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	U
127-18-4	Tetrachloroethene	<b>0.13</b>	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	0.37	1.1	0.37	0.15	U
75-25-2	Bromoform	0.15	0.24	0.15	0.050	U
100-42-5	Styrene	0.36	0.58	0.36	0.095	U
95-47-6	o-Xylene	0.19	0.58	0.19	0.084	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.071</b>	0.50	0.16	0.071	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	0.37	1.1	0.37	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00991

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.16 Final Pressure (psig): 7.61

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.90	1.5	0.90	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.46</b>	0.51	0.31	0.085	J
74-87-3	Chloromethane	0.75	1.2	0.75	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	U
75-00-3	Chloroethane	0.59	0.95	0.59	0.12	U
64-17-5	Ethanol	2.1	14	2.1	0.95	U
67-64-1	Acetone	5.5	11	5.5	2.4	U
75-69-4	Trichlorofluoromethane	<b>1.4</b>	0.44	0.27	0.070	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	<b>0.058</b>	0.33	0.11	0.048	J
75-15-0	Carbon Disulfide	<b>1.3</b>	1.6	0.84	0.25	J
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	U
78-93-3	2-Butanone (MEK)	0.52	1.6	0.52	0.18	U
141-78-6	Ethyl Acetate	0.87	1.3	0.87	0.38	U
110-54-3	n-Hexane	0.44	0.71	0.44	0.15	U
67-66-3	Chloroform	0.17	0.52	0.17	0.070	U
109-99-9	Tetrahydrofuran (THF)	<b>0.53</b>	1.6	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	U
71-43-2	Benzene	<b>0.28</b>	0.79	0.26	0.12	J
56-23-5	Carbon Tetrachloride	0.13	0.39	0.13	0.057	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00991

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.16 Final Pressure (psig): 7.61

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.48	1.4	0.48	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	0.15	0.46	0.15	0.065	U
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.084	U
142-82-5	n-Heptane	<b>0.15</b>	0.61	0.38	0.10	J
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	<b>0.45</b>	0.67	0.22	0.083	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.078	U
124-48-1	Dibromochloromethane	0.096	0.29	0.096	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.051</b>	0.37	0.12	0.049	J
100-41-4	Ethylbenzene	0.19	0.58	0.19	0.083	U
179601-23-1	m,p-Xylenes	<b>0.16</b>	1.1	0.38	0.16	J
75-25-2	Bromoform	0.15	0.25	0.15	0.051	U
100-42-5	Styrene	0.36	0.59	0.36	0.097	U
95-47-6	o-Xylene	0.19	0.59	0.19	0.086	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.52	0.17	0.076	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.51	0.17	0.073	U
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	U
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	U
1330-20-7	Xylenes, Total	<b>0.16</b>	1.1	0.38	0.16	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVTB204-01**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-021

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00125

Date Collected: 10/7/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.47	0.76	0.47	0.19	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.16	0.26	0.16	0.044	U
74-87-3	Chloromethane	0.39	0.63	0.39	0.10	U
75-01-4	Vinyl Chloride	0.17	0.52	0.17	0.056	U
106-99-0	1,3-Butadiene	0.36	0.59	0.36	0.099	U
75-00-3	Chloroethane	0.30	0.49	0.30	0.063	U
64-17-5	Ethanol	4.9	7.0	1.1	0.49	J
67-64-1	Acetone	2.5	5.5	2.8	1.3	J
75-69-4	Trichlorofluoromethane	0.14	0.23	0.14	0.036	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.29	1.0	0.64	0.22	J
75-09-2	Methylene Chloride	0.23	0.37	0.23	0.11	U
76-13-1	Trichlorotrifluoroethane	0.055	0.17	0.055	0.025	U
75-15-0	Carbon Disulfide	0.43	0.80	0.43	0.13	U
75-34-3	1,1-Dichloroethane	0.20	0.33	0.20	0.048	U
78-93-3	2-Butanone (MEK)	1.0	0.85	0.27	0.093	
141-78-6	Ethyl Acetate	0.33	0.69	0.45	0.19	J
110-54-3	n-Hexane	0.23	0.37	0.23	0.078	U
67-66-3	Chloroform	0.087	0.27	0.087	0.036	U
109-99-9	Tetrahydrofuran (THF)	0.14	0.85	0.14	0.057	U
107-06-2	1,2-Dichloroethane	0.11	0.32	0.11	0.036	U
71-43-2	Benzene	0.13	0.41	0.13	0.060	U
56-23-5	Carbon Tetrachloride	0.068	0.20	0.068	0.029	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SVTB204-01

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-021

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00125

Date Collected: 10/7/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.25	0.73	0.25	0.11	U
75-27-4	Bromodichloromethane	0.063	0.19	0.063	0.029	U
79-01-6	Trichloroethene	0.079	0.24	0.079	0.034	U
123-91-1	1,4-Dioxane	0.12	0.36	0.12	0.044	U
142-82-5	n-Heptane	0.20	0.32	0.20	0.052	U
108-10-1	4-Methyl-2-pentanone	0.10	0.61	0.10	0.045	U
108-88-3	Toluene	0.23	0.35	0.11	0.043	J
591-78-6	2-Hexanone	0.060	0.61	0.10	0.040	J
124-48-1	Dibromochloromethane	0.050	0.15	0.050	0.021	U
106-93-4	1,2-Dibromoethane	0.055	0.17	0.055	0.020	U
127-18-4	Tetrachloroethene	0.063	0.19	0.063	0.025	U
100-41-4	Ethylbenzene	0.098	0.30	0.098	0.043	U
179601-23-1	m,p-Xylenes	0.20	0.58	0.20	0.081	U
75-25-2	Bromoform	0.077	0.13	0.077	0.027	U
100-42-5	Styrene	0.12	0.31	0.19	0.051	J
95-47-6	o-Xylene	0.098	0.31	0.098	0.044	U
108-67-8	1,3,5-Trimethylbenzene	0.086	0.27	0.086	0.039	U
95-63-6	1,2,4-Trimethylbenzene	0.086	0.26	0.086	0.038	U
120-82-1	1,2,4-Trichlorobenzene	0.11	0.34	0.11	0.044	U
91-20-3	Naphthalene	0.15	0.25	0.15	0.062	U
1330-20-7	Xylenes, Total	0.20	0.58	0.20	0.081	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201021-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201021-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date(s) Collected: 10/6 - 10/7/20

Analyst: Simon Cao

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 10/20 - 10/22/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201020-MB	98	101	99	70-130	
Method Blank	P201021-MB	99	101	101	70-130	
Lab Control Sample	P201020-LCS	99	98	97	70-130	
Lab Control Sample	P201021-LCS	99	98	100	70-130	
Duplicate Lab Control Sample	P201020-DLCS	99	98	98	70-130	
Duplicate Lab Control Sample	P201021-DLCS	99	98	100	70-130	
SV128-025-204	P2005748-001	101	100	101	70-130	
SV128-050-204	P2005748-002	98	99	101	70-130	
SV128-150-204	P2005748-003	99	100	102	70-130	
SV128-250-204	P2005748-004	99	91	93	70-130	
SV128-350-204	P2005748-005	99	90	92	70-130	
SV128-450-204	P2005748-006	99	92	94	70-130	
SV133-025-204	P2005748-007	99	98	101	70-130	
SV133-050-204	P2005748-008	99	100	102	70-130	
SV133-170-204	P2005748-009	100	98	101	70-130	
SV133-250-204	P2005748-010	100	100	102	70-130	
SV133-250-604	P2005748-011	100	100	103	70-130	
SV133-350-204	P2005748-012	100	99	102	70-130	
SV133-450-204	P2005748-013	98	100	100	70-130	
SV136-025-204	P2005748-014	101	99	102	70-130	
SV136-050-204	P2005748-015	101	99	102	70-130	
SV136-150-204	P2005748-016	99	100	102	70-130	
SV136-250-204	P2005748-017	100	100	102	70-130	
SV136-350-204	P2005748-018	100	100	102	70-130	
SV136-450-204	P2005748-019	99	100	102	70-130	
SV138-025-204	P2005748-020	99	100	102	70-130	
SVTB204-01	P2005748-021	100	100	102	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	122	109	112	89	92	57-136	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	36.2	36.5	85	86	59-128	1	25	
74-87-3	Chloromethane	99.8	87.5	88.6	88	89	59-132	1	25	
75-01-4	Vinyl Chloride	81.4	75.1	75.5	92	93	64-127	1	25	
106-99-0	1,3-Butadiene	95.0	96.2	96.3	101	101	66-134	0	25	
75-00-3	Chloroethane	77.3	71.6	72.2	93	93	63-127	0	25	
64-17-5	Ethanol	530	465	472	88	89	59-125	1	25	
67-64-1	Acetone	435	372	373	86	86	58-128	0	25	
75-69-4	Trichlorofluoromethane	36.3	30.7	30.8	85	85	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	151	150	91	90	52-125	1	25	
75-09-2	Methylene Chloride	59.9	54.9	55.2	92	92	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	27.9	23.7	23.7	85	85	66-126	0	25	
75-15-0	Carbon Disulfide	137	126	126	92	92	57-134	0	25	
75-34-3	1,1-Dichloroethane	52.4	47.5	47.7	91	91	68-126	0	25	
78-93-3	2-Butanone (MEK)	140	134	134	96	96	67-130	0	25	
141-78-6	Ethyl Acetate	117	135	136	115	116	65-128	0.9	25	
110-54-3	n-Hexane	60.2	52.1	52.1	87	87	63-120	0	25	
67-66-3	Chloroform	43.8	37.9	37.9	87	87	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	136	126	126	93	93	64-123	0	25	
107-06-2	1,2-Dichloroethane	51.4	46.3	46.0	90	89	65-128	1	25	
71-43-2	Benzene	63.9	58.0	58.0	91	91	69-119	0	25	
56-23-5	Carbon Tetrachloride	33.4	27.2	27.2	81	81	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	110	110	<b>91</b>	<b>91</b>	70-117	0	25	
75-27-4	Bromodichloromethane	31.4	28.4	28.5	<b>90</b>	<b>91</b>	72-128	1	25	
79-01-6	Trichloroethene	38.3	32.7	32.8	<b>85</b>	<b>86</b>	71-123	1	25	
123-91-1	1,4-Dioxane	57.7	55.3	55.2	<b>96</b>	<b>96</b>	71-122	0	25	
142-82-5	n-Heptane	51.3	47.3	47.5	<b>92</b>	<b>93</b>	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	102	103	104	<b>101</b>	<b>102</b>	67-130	1	25	
108-88-3	Toluene	54.7	46.4	46.6	<b>85</b>	<b>85</b>	66-119	0	25	
591-78-6	2-Hexanone	98.7	98.5	98.6	<b>100</b>	<b>100</b>	62-128	0	25	
124-48-1	Dibromochloromethane	24.7	22.0	21.9	<b>89</b>	<b>89</b>	70-130	0	25	
106-93-4	1,2-Dibromoethane	27.1	24.2	24.2	<b>89</b>	<b>89</b>	74-122	0	25	
127-18-4	Tetrachloroethene	30.4	24.6	24.6	<b>81</b>	<b>81</b>	66-124	0	25	
100-41-4	Ethylbenzene	47.4	41.4	41.4	<b>87</b>	<b>87</b>	70-124	0	25	
179601-23-1	m,p-Xylenes	94.9	81.6	81.6	<b>86</b>	<b>86</b>	61-134	0	25	
75-25-2	Bromoform	20.1	18.1	18.2	<b>90</b>	<b>91</b>	66-139	1	25	
100-42-5	Styrene	48.4	43.2	43.0	<b>89</b>	<b>89</b>	73-127	0	25	
95-47-6	o-Xylene	47.4	41.1	41.2	<b>87</b>	<b>87</b>	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	35.7	35.9	<b>85</b>	<b>86</b>	67-130	1	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	35.6	35.5	<b>86</b>	<b>86</b>	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	42.3	42.3	<b>81</b>	<b>81</b>	55-142	0	25	
91-20-3	Naphthalene	37.8	29.6	29.7	<b>78</b>	<b>79</b>	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201021-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	122	98.8	101	81	83	57-136	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	32.6	33.0	77	78	59-128	1	25	
74-87-3	Chloromethane	99.8	77.5	83.9	78	84	59-132	7	25	
75-01-4	Vinyl Chloride	81.4	67.0	68.3	82	84	64-127	2	25	
106-99-0	1,3-Butadiene	95.0	83.6	84.8	88	89	66-134	1	25	
75-00-3	Chloroethane	77.3	63.3	64.6	82	84	63-127	2	25	
64-17-5	Ethanol	530	436	445	82	84	59-125	2	25	
67-64-1	Acetone	435	322	326	74	75	58-128	1	25	
75-69-4	Trichlorofluoromethane	36.3	27.7	27.8	76	77	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	131	133	79	80	52-125	1	25	
75-09-2	Methylene Chloride	59.9	48.5	48.8	81	81	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	27.9	21.2	21.4	76	77	66-126	1	25	
75-15-0	Carbon Disulfide	137	108	109	79	80	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	42.6	42.7	81	81	68-126	0	25	
78-93-3	2-Butanone (MEK)	140	118	119	84	85	67-130	1	25	
141-78-6	Ethyl Acetate	117	97.0	97.5	83	83	65-128	0	25	
110-54-3	n-Hexane	60.2	46.1	46.5	77	77	63-120	0	25	
67-66-3	Chloroform	43.8	34.0	34.1	78	78	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	136	115	116	85	85	64-123	0	25	
107-06-2	1,2-Dichloroethane	51.4	41.3	41.7	80	81	65-128	1	25	
71-43-2	Benzene	63.9	52.3	52.7	82	82	69-119	0	25	
56-23-5	Carbon Tetrachloride	33.4	25.1	25.1	75	75	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201021-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	97.8	98.2	<b>81</b>	<b>81</b>	70-117	0	25	
75-27-4	Bromodichloromethane	31.4	25.7	25.8	<b>82</b>	<b>82</b>	72-128	0	25	
79-01-6	Trichloroethene	38.3	30.1	30.3	<b>79</b>	<b>79</b>	71-123	0	25	
123-91-1	1,4-Dioxane	57.7	48.4	48.8	<b>84</b>	<b>85</b>	71-122	1	25	
142-82-5	n-Heptane	51.3	41.3	41.6	<b>81</b>	<b>81</b>	69-123	0	25	
108-10-1	4-Methyl-2-pentanone	102	92.2	92.9	<b>90</b>	<b>91</b>	67-130	1	25	
108-88-3	Toluene	54.7	42.2	42.2	<b>77</b>	<b>77</b>	66-119	0	25	
591-78-6	2-Hexanone	98.7	90.4	90.5	<b>92</b>	<b>92</b>	62-128	0	25	
124-48-1	Dibromochloromethane	24.7	19.5	19.6	<b>79</b>	<b>79</b>	70-130	0	25	
106-93-4	1,2-Dibromoethane	27.1	21.9	22.0	<b>81</b>	<b>81</b>	74-122	0	25	
127-18-4	Tetrachloroethene	30.4	22.6	22.6	<b>74</b>	<b>74</b>	66-124	0	25	
100-41-4	Ethylbenzene	47.4	37.7	37.8	<b>80</b>	<b>80</b>	70-124	0	25	
179601-23-1	m,p-Xylenes	94.9	75.0	75.1	<b>79</b>	<b>79</b>	61-134	0	25	
75-25-2	Bromoform	20.1	16.6	16.6	<b>83</b>	<b>83</b>	66-139	0	25	
100-42-5	Styrene	48.4	40.0	40.0	<b>83</b>	<b>83</b>	73-127	0	25	
95-47-6	o-Xylene	47.4	37.6	37.7	<b>79</b>	<b>80</b>	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	33.2	33.2	<b>79</b>	<b>79</b>	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	33.1	33.3	<b>80</b>	<b>80</b>	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	46.2	46.8	<b>88</b>	<b>89</b>	55-142	1	25	
91-20-3	Naphthalene	37.8	35.6	36.5	<b>94</b>	<b>97</b>	57-138	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00851

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.84 Final Pressure (psig): 7.36

Container Dilution Factor: 2.03

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.0	2.6	1.6	0.66	J
75-71-8	Dichlorodifluoromethane (CFC 12)	300	2.6	1.6	0.44	
74-87-3	Chloromethane	1.6	2.6	1.6	0.44	U
75-01-4	Vinyl Chloride	0.86	2.7	0.86	0.29	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.45	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	27	27	4.2	1.9	J
67-64-1	Acetone	21	26	14	6.1	J
75-69-4	Trichlorofluoromethane	52	2.6	1.6	0.41	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	5.1	3.2	1.1	U
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.76	U
76-13-1	Trichlorotrifluoroethane	53	2.7	0.86	0.39	
75-15-0	Carbon Disulfide	46	5.1	2.7	0.81	
75-34-3	1,1-Dichloroethane	1.7	2.7	1.7	0.40	U
78-93-3	2-Butanone (MEK)	4.8	5.1	1.6	0.56	J
141-78-6	Ethyl Acetate	10	5.1	3.3	1.4	
110-54-3	n-Hexane	7.2	2.6	1.6	0.56	
67-66-3	Chloroform	9.6	2.7	0.86	0.36	
109-99-9	Tetrahydrofuran (THF)	1.0	5.1	0.86	0.34	J
107-06-2	1,2-Dichloroethane	0.86	2.6	0.86	0.30	U
71-43-2	Benzene	5.0	2.6	0.86	0.39	
56-23-5	Carbon Tetrachloride	67	2.6	0.86	0.38	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00851

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.84 Final Pressure (psig): 7.36

Container Dilution Factor: 2.03

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	4.1	5.1	1.7	0.76	J
75-27-4	Bromodichloromethane	0.86	2.6	0.86	0.39	U
79-01-6	Trichloroethene	0.83	2.6	0.86	0.37	J
123-91-1	1,4-Dioxane	0.86	2.6	0.86	0.32	U
142-82-5	n-Heptane	18	2.6	1.6	0.43	
108-10-1	4-Methyl-2-pentanone	0.53	5.1	0.86	0.37	J
108-88-3	Toluene	33	2.6	0.86	0.33	
591-78-6	2-Hexanone	0.86	5.1	0.86	0.33	U
124-48-1	Dibromochloromethane	0.86	2.6	0.86	0.36	U
106-93-4	1,2-Dibromoethane	0.43	2.6	0.86	0.31	J
127-18-4	Tetrachloroethene	2.2	2.6	0.86	0.35	J
100-41-4	Ethylbenzene	5.4	2.6	0.86	0.38	
179601-23-1	m,p-Xylenes	35	5.1	1.7	0.71	
75-25-2	Bromoform	1.6	2.7	1.6	0.56	U
100-42-5	Styrene	1.6	2.6	1.6	0.44	U
95-47-6	o-Xylene	19	2.7	0.86	0.39	
108-67-8	1,3,5-Trimethylbenzene	7.4	2.7	0.86	0.39	
95-63-6	1,2,4-Trimethylbenzene	14	2.6	0.86	0.38	
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.66	U
91-20-3	Naphthalene	3.8	2.6	1.6	0.66	
1330-20-7	Xylenes, Total	54	5.1	1.7	0.71	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00096

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.30 Final Pressure (psig): 7.77

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	8.2	2.6	1.6	0.64	
75-71-8	Dichlorodifluoromethane (CFC 12)	550	26	16	4.3	D
74-87-3	Chloromethane	0.73	2.6	1.6	0.42	J
75-01-4	Vinyl Chloride	0.84	2.6	0.84	0.28	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.43	U
75-00-3	Chloroethane	0.34	2.6	1.6	0.33	J
64-17-5	Ethanol	21	26	4.1	1.8	J
67-64-1	Acetone	51	26	13	5.9	
75-69-4	Trichlorofluoromethane	80	2.5	1.6	0.40	
67-63-0	2-Propanol (Isopropyl Alcohol)	10	4.9	3.1	1.1	
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.74	U
76-13-1	Trichlorotrifluoroethane	99	2.6	0.84	0.37	
75-15-0	Carbon Disulfide	80	4.9	2.7	0.79	
75-34-3	1,1-Dichloroethane	1.6	2.7	1.6	0.38	U
78-93-3	2-Butanone (MEK)	12	4.9	1.6	0.54	
141-78-6	Ethyl Acetate	3.2	4.9	3.2	1.4	U
110-54-3	n-Hexane	4.4	2.6	1.6	0.54	
67-66-3	Chloroform	1.9	2.6	0.84	0.35	J
109-99-9	Tetrahydrofuran (THF)	0.95	4.9	0.84	0.33	J
107-06-2	1,2-Dichloroethane	0.84	2.6	0.84	0.29	U
71-43-2	Benzene	10	2.6	0.84	0.38	
56-23-5	Carbon Tetrachloride	110	2.5	0.84	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00096

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.30 Final Pressure (psig): 7.77

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	9.4	4.9	1.7	0.74	
75-27-4	Bromodichloromethane	0.84	2.6	0.84	0.38	U
79-01-6	Trichloroethene	1.1	2.5	0.84	0.35	J
123-91-1	1,4-Dioxane	5.6	2.6	0.84	0.31	
142-82-5	n-Heptane	12	2.6	1.6	0.42	
108-10-1	4-Methyl-2-pentanone	1.1	4.9	0.84	0.36	J
108-88-3	Toluene	35	2.6	0.84	0.32	
591-78-6	2-Hexanone	4.5	4.9	0.84	0.33	J
124-48-1	Dibromochloromethane	0.84	2.6	0.84	0.34	U
106-93-4	1,2-Dibromoethane	0.84	2.6	0.84	0.31	U
127-18-4	Tetrachloroethene	2.3	2.6	0.84	0.34	J
100-41-4	Ethylbenzene	7.3	2.6	0.84	0.37	
179601-23-1	m,p-Xylenes	29	4.9	1.7	0.69	
75-25-2	Bromoform	1.6	2.6	1.6	0.54	U
100-42-5	Styrene	1.6	2.6	1.6	0.42	U
95-47-6	o-Xylene	13	2.6	0.84	0.38	
108-67-8	1,3,5-Trimethylbenzene	6.1	2.6	0.84	0.38	
95-63-6	1,2,4-Trimethylbenzene	16	2.6	0.84	0.36	
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.64	U
91-20-3	Naphthalene	12	2.6	1.5	0.64	
1330-20-7	Xylenes, Total	42	4.9	1.7	0.69	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00712

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.13 Final Pressure (psig): 7.72

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.9	2.5	1.6	0.63	
75-71-8	Dichlorodifluoromethane (CFC 12)	520	25	16	4.2	D
74-87-3	Chloromethane	0.49	2.5	1.6	0.42	J
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.5	1.6	0.32	U
64-17-5	Ethanol	8.7	26	4.0	1.8	J
67-64-1	Acetone	40	25	13	5.8	
75-69-4	Trichlorofluoromethane	69	2.5	1.6	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	4.9	3.1	1.1	J
75-09-2	Methylene Chloride	1.6	2.5	1.6	0.73	U
76-13-1	Trichlorotrifluoroethane	130	2.6	0.82	0.37	
75-15-0	Carbon Disulfide	35	4.9	2.6	0.78	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	8.9	4.9	1.6	0.53	
141-78-6	Ethyl Acetate	2.8	4.9	3.2	1.4	J
110-54-3	n-Hexane	2.9	2.5	1.6	0.53	
67-66-3	Chloroform	47	2.6	0.82	0.34	
109-99-9	Tetrahydrofuran (THF)	29	4.9	0.82	0.32	
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.29	U
71-43-2	Benzene	3.0	2.5	0.82	0.37	
56-23-5	Carbon Tetrachloride	150	2.5	0.82	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00712

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.13 Final Pressure (psig): 7.72

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.0	4.9	1.6	0.73	J
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	18	2.5	0.82	0.35	
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.31	U
142-82-5	n-Heptane	9.7	2.5	1.6	0.41	
108-10-1	4-Methyl-2-pentanone	0.38	4.9	0.82	0.35	J
108-88-3	Toluene	18	2.5	0.82	0.32	
591-78-6	2-Hexanone	0.82	4.9	0.82	0.32	U
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	3.2	2.5	0.82	0.33	
100-41-4	Ethylbenzene	2.4	2.5	0.82	0.36	J
179601-23-1	m,p-Xylenes	13	4.9	1.6	0.68	
75-25-2	Bromoform	1.6	2.6	1.6	0.53	U
100-42-5	Styrene	0.63	2.5	1.6	0.42	J
95-47-6	o-Xylene	5.6	2.6	0.82	0.37	
108-67-8	1,3,5-Trimethylbenzene	1.8	2.6	0.82	0.37	J
95-63-6	1,2,4-Trimethylbenzene	4.3	2.5	0.82	0.36	
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.63	U
91-20-3	Naphthalene	1.3	2.5	1.5	0.63	J
1330-20-7	Xylenes, Total	19	4.9	1.6	0.68	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV128-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01189

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00080 Liter(s)

0.00020 Liter(s)

Initial Pressure (psig): -4.14 Final Pressure (psig): 7.67

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	850	1,400	850	340	U
75-71-8	Dichlorodifluoromethane (CFC 12)	850	1,400	850	230	U
74-87-3	Chloromethane	850	1,400	850	230	U
75-01-4	Vinyl Chloride	450	1,400	450	150	U
106-99-0	1,3-Butadiene	850	1,400	850	230	U
75-00-3	Chloroethane	850	1,400	850	170	U
64-17-5	Ethanol	2,200	14,000	2,200	980	U
67-64-1	Acetone	7,200	14,000	7,200	3,200	U
75-69-4	Trichlorofluoromethane	850	1,400	850	210	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,700	2,700	1,700	580	U
75-09-2	Methylene Chloride	850	1,400	850	400	U
76-13-1	Trichlorotrifluoroethane	<b>260</b>	1,400	450	200	J
75-15-0	Carbon Disulfide	1,400	2,700	1,400	420	U
75-34-3	1,1-Dichloroethane	870	1,400	870	210	U
78-93-3	2-Butanone (MEK)	850	2,700	850	290	U
141-78-6	Ethyl Acetate	1,700	2,700	1,700	740	U
110-54-3	n-Hexane	<b>250,000</b>	1,400	850	290	
67-66-3	Chloroform	450	1,400	450	190	U
109-99-9	Tetrahydrofuran (THF)	450	2,700	450	180	U
107-06-2	1,2-Dichloroethane	450	1,400	450	160	U
71-43-2	Benzene	<b>22,000</b>	1,400	450	200	
56-23-5	Carbon Tetrachloride	450	1,400	450	200	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV128-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-004

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00080 Liter(s)

Test Notes:

0.00020 Liter(s)

Container ID: 1SC01189

Initial Pressure (psig): -4.14 Final Pressure (psig): 7.67

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	420,000	2,700	900	400	
75-27-4	Bromodichloromethane	450	1,400	450	200	U
79-01-6	Trichloroethene	450	1,400	450	190	U
123-91-1	1,4-Dioxane	450	1,400	450	170	U
142-82-5	n-Heptane	540,000	5,500	3,400	900	D
108-10-1	4-Methyl-2-pentanone	450	2,700	450	190	U
108-88-3	Toluene	450	1,400	450	170	U
591-78-6	2-Hexanone	450	2,700	450	170	U
124-48-1	Dibromochloromethane	450	1,400	450	190	U
106-93-4	1,2-Dibromoethane	450	1,400	450	160	U
127-18-4	Tetrachloroethene	450	1,400	450	180	U
100-41-4	Ethylbenzene	16,000	1,400	450	200	
179601-23-1	m,p-Xylenes	36,000	2,700	900	370	
75-25-2	Bromoform	850	1,400	850	290	U
100-42-5	Styrene	850	1,400	850	230	U
95-47-6	o-Xylene	450	1,400	450	200	U
108-67-8	1,3,5-Trimethylbenzene	1,700	1,400	450	200	
95-63-6	1,2,4-Trimethylbenzene	1,700	1,400	450	200	
120-82-1	1,2,4-Trichlorobenzene	850	2,700	850	340	U
91-20-3	Naphthalene	820	1,400	820	340	U
1330-20-7	Xylenes, Total	36,000	2,700	900	370	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00232

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00050 Liter(s)

Initial Pressure (psig): -3.02 Final Pressure (psig): 7.54

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	11,000	2,000	1,200	490	
75-71-8	Dichlorodifluoromethane (CFC 12)	1,500	2,000	1,200	330	J
74-87-3	Chloromethane	1,200	2,000	1,200	330	U
75-01-4	Vinyl Chloride	650	2,000	650	220	U
106-99-0	1,3-Butadiene	1,200	2,000	1,200	330	U
75-00-3	Chloroethane	1,200	2,000	1,200	250	U
64-17-5	Ethanol	3,200	20,000	3,200	1,400	U
67-64-1	Acetone	10,000	20,000	10,000	4,600	U
75-69-4	Trichlorofluoromethane	1,200	1,900	1,200	310	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,400	3,800	2,400	840	U
75-09-2	Methylene Chloride	1,200	2,000	1,200	570	U
76-13-1	Trichlorotrifluoroethane	650	2,000	650	290	U
75-15-0	Carbon Disulfide	2,100	3,800	2,100	610	U
75-34-3	1,1-Dichloroethane	1,300	2,100	1,300	300	U
78-93-3	2-Butanone (MEK)	1,200	3,800	1,200	420	U
141-78-6	Ethyl Acetate	2,500	3,800	2,500	1,100	U
110-54-3	n-Hexane	270,000	2,000	1,200	420	
67-66-3	Chloroform	650	2,000	650	270	U
109-99-9	Tetrahydrofuran (THF)	650	3,800	650	250	U
107-06-2	1,2-Dichloroethane	650	2,000	650	220	U
71-43-2	Benzene	72,000	2,000	650	290	
56-23-5	Carbon Tetrachloride	650	1,900	650	280	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV128-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-005

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Topacio De Leon

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00050 Liter(s)

Test Notes:

Container ID: 1SC00232

Initial Pressure (psig): -3.02 Final Pressure (psig): 7.54

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	410,000	3,800	1,300	570	
75-27-4	Bromodichloromethane	650	2,000	650	290	U
79-01-6	Trichloroethene	650	1,900	650	270	U
123-91-1	1,4-Dioxane	650	2,000	650	240	U
142-82-5	n-Heptane	360,000	2,000	1,200	320	
108-10-1	4-Methyl-2-pentanone	650	3,800	650	280	U
108-88-3	Toluene	290,000	2,000	650	250	
591-78-6	2-Hexanone	650	3,800	650	250	U
124-48-1	Dibromochloromethane	650	2,000	650	270	U
106-93-4	1,2-Dibromoethane	650	2,000	650	240	U
127-18-4	Tetrachloroethene	650	2,000	650	260	U
100-41-4	Ethylbenzene	17,000	2,000	650	290	
179601-23-1	m,p-Xylenes	100,000	3,800	1,300	530	
75-25-2	Bromoform	1,200	2,000	1,200	420	U
100-42-5	Styrene	1,200	2,000	1,200	330	U
95-47-6	o-Xylene	43,000	2,000	650	290	
108-67-8	1,3,5-Trimethylbenzene	4,800	2,000	650	290	
95-63-6	1,2,4-Trimethylbenzene	4,200	2,000	650	280	
120-82-1	1,2,4-Trichlorobenzene	1,200	3,800	1,200	490	U
91-20-3	Naphthalene	1,200	2,000	1,200	490	U
1330-20-7	Xylenes, Total	150,000	3,800	1,300	530	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV128-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00862

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.00025 Liter(s)

0.00010 Liter(s)

Initial Pressure (psig): -3.18 Final Pressure (psig): 8.08

Container Dilution Factor: 1.98

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	19,000	4,100	2,500	1,000	
75-71-8	Dichlorodifluoromethane (CFC 12)	2,300	4,100	2,500	690	J
74-87-3	Chloromethane	2,500	4,100	2,500	680	U
75-01-4	Vinyl Chloride	1,300	4,200	1,300	450	U
106-99-0	1,3-Butadiene	2,500	4,100	2,500	700	U
75-00-3	Chloroethane	2,500	4,100	2,500	520	U
64-17-5	Ethanol	6,600	42,000	6,600	2,900	U
67-64-1	Acetone	21,000	41,000	21,000	9,500	U
75-69-4	Trichlorofluoromethane	2,500	4,000	2,500	640	U
67-63-0	2-Propanol (Isopropyl Alcohol)	5,000	7,900	5,000	1,700	U
75-09-2	Methylene Chloride	2,500	4,100	2,500	1,200	U
76-13-1	Trichlorotrifluoroethane	1,300	4,200	1,300	600	U
75-15-0	Carbon Disulfide	4,300	7,900	4,300	1,300	U
75-34-3	1,1-Dichloroethane	2,600	4,300	2,600	620	U
78-93-3	2-Butanone (MEK)	960	7,900	2,500	870	J
141-78-6	Ethyl Acetate	5,100	7,900	5,100	2,200	U
110-54-3	n-Hexane	630,000	4,100	2,500	870	
67-66-3	Chloroform	1,300	4,200	1,300	560	U
109-99-9	Tetrahydrofuran (THF)	1,300	7,900	1,300	530	U
107-06-2	1,2-Dichloroethane	1,300	4,100	1,300	470	U
71-43-2	Benzene	26,000	4,100	1,300	610	
56-23-5	Carbon Tetrachloride	1,300	4,000	1,300	590	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV128-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-006

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/21/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00025 Liter(s)

Test Notes:

0.00010 Liter(s)

Container ID: 1SC00862

Initial Pressure (psig): -3.18 Final Pressure (psig): 8.08

Container Dilution Factor: 1.98

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	800,000	7,900	2,700	1,200	
75-27-4	Bromodichloromethane	1,300	4,100	1,300	610	U
79-01-6	Trichloroethene	1,300	4,000	1,300	570	U
123-91-1	1,4-Dioxane	1,300	4,100	1,300	500	U
142-82-5	n-Heptane	1,500,000	10,000	6,300	1,700	D
108-10-1	4-Methyl-2-pentanone	2,700	7,900	1,300	580	J
108-88-3	Toluene	160,000	4,100	1,300	510	
591-78-6	2-Hexanone	1,300	7,900	1,300	520	U
124-48-1	Dibromochloromethane	1,300	4,100	1,300	550	U
106-93-4	1,2-Dibromoethane	1,300	4,100	1,300	490	U
127-18-4	Tetrachloroethene	1,300	4,100	1,300	550	U
100-41-4	Ethylbenzene	13,000	4,100	1,300	590	
179601-23-1	m,p-Xylenes	220,000	7,900	2,700	1,100	
75-25-2	Bromoform	2,500	4,200	2,500	870	U
100-42-5	Styrene	2,500	4,100	2,500	680	U
95-47-6	o-Xylene	60,000	4,200	1,300	610	
108-67-8	1,3,5-Trimethylbenzene	4,400	4,200	1,300	610	
95-63-6	1,2,4-Trimethylbenzene	5,000	4,100	1,300	590	
120-82-1	1,2,4-Trichlorobenzene	2,500	7,900	2,500	1,000	U
91-20-3	Naphthalene	2,500	4,100	2,500	1,000	U
1330-20-7	Xylenes, Total	280,000	7,900	2,700	1,100	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00133

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.47 Final Pressure (psig): 8.40

Container Dilution Factor: 2.06

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.92	2.7	1.6	0.67	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.7	1.6	0.45	J
74-87-3	Chloromethane	1.6	2.7	1.6	0.44	U
75-01-4	Vinyl Chloride	0.88	2.7	0.88	0.29	U
106-99-0	1,3-Butadiene	1.6	2.7	1.6	0.45	U
75-00-3	Chloroethane	1.6	2.7	1.6	0.34	U
64-17-5	Ethanol	5.9	27	4.3	1.9	J
67-64-1	Acetone	320	27	14	6.2	J
75-69-4	Trichlorofluoromethane	1.0	2.6	1.6	0.42	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	5.2	3.2	1.1	U
75-09-2	Methylene Chloride	1.6	2.7	1.6	0.77	U
76-13-1	Trichlorotrifluoroethane	2.6	2.7	0.88	0.39	J
75-15-0	Carbon Disulfide	1.5	5.2	2.8	0.82	J
75-34-3	1,1-Dichloroethane	1.7	2.8	1.7	0.40	U
78-93-3	2-Butanone (MEK)	9.1	5.2	1.6	0.57	J
141-78-6	Ethyl Acetate	3.3	5.2	3.3	1.4	U
110-54-3	n-Hexane	1.2	2.7	1.6	0.57	J
67-66-3	Chloroform	0.56	2.7	0.88	0.37	J
109-99-9	Tetrahydrofuran (THF)	0.91	5.2	0.88	0.35	J
107-06-2	1,2-Dichloroethane	0.88	2.7	0.88	0.30	U
71-43-2	Benzene	0.53	2.7	0.88	0.40	J
56-23-5	Carbon Tetrachloride	0.88	2.6	0.88	0.38	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00133

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.47 Final Pressure (psig): 8.40

Container Dilution Factor: 2.06

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1.3</b>	5.2	1.8	0.77	<b>J</b>
75-27-4	Bromodichloromethane	0.88	2.7	0.88	0.40	<b>U</b>
79-01-6	Trichloroethene	<b>28</b>	2.6	0.88	0.37	
123-91-1	1,4-Dioxane	0.88	2.7	0.88	0.32	<b>U</b>
142-82-5	n-Heptane	<b>5.4</b>	2.7	1.6	0.44	
108-10-1	4-Methyl-2-pentanone	<b>0.65</b>	5.2	0.88	0.38	<b>J</b>
108-88-3	Toluene	<b>4.4</b>	2.7	0.88	0.33	
591-78-6	2-Hexanone	0.88	5.2	0.88	0.34	<b>U</b>
124-48-1	Dibromochloromethane	0.88	2.7	0.88	0.36	<b>U</b>
106-93-4	1,2-Dibromoethane	0.88	2.7	0.88	0.32	<b>U</b>
127-18-4	Tetrachloroethene	<b>2.8</b>	2.7	0.88	0.36	
100-41-4	Ethylbenzene	<b>1.8</b>	2.7	0.88	0.39	<b>J</b>
179601-23-1	m,p-Xylenes	<b>25</b>	5.2	1.8	0.72	
75-25-2	Bromoform	1.6	2.7	1.6	0.57	<b>U</b>
100-42-5	Styrene	1.6	2.7	1.6	0.44	<b>U</b>
95-47-6	o-Xylene	<b>10</b>	2.7	0.88	0.40	
108-67-8	1,3,5-Trimethylbenzene	<b>5.3</b>	2.7	0.88	0.40	
95-63-6	1,2,4-Trimethylbenzene	<b>16</b>	2.7	0.88	0.38	
120-82-1	1,2,4-Trichlorobenzene	1.6	5.2	1.6	0.67	<b>U</b>
91-20-3	Naphthalene	<b>1.9</b>	2.7	1.6	0.67	<b>J</b>
1330-20-7	Xylenes, Total	<b>35</b>	5.2	1.8	0.72	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00608

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.27

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.4	1.5	0.61	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.4	1.5	0.41	J
74-87-3	Chloromethane	0.50	2.4	1.5	0.40	J
75-01-4	Vinyl Chloride	0.80	2.5	0.80	0.27	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	15	25	3.9	1.7	J
67-64-1	Acetone	330	24	13	5.6	J
75-69-4	Trichlorofluoromethane	1.1	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.0	4.7	3.0	1.0	J
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	3.0	2.5	0.80	0.36	J
75-15-0	Carbon Disulfide	37	4.7	2.5	0.75	J
75-34-3	1,1-Dichloroethane	1.6	2.5	1.6	0.37	U
78-93-3	2-Butanone (MEK)	8.9	4.7	1.5	0.52	J
141-78-6	Ethyl Acetate	4.9	4.7	3.1	1.3	J
110-54-3	n-Hexane	0.92	2.4	1.5	0.52	J
67-66-3	Chloroform	0.73	2.5	0.80	0.33	J
109-99-9	Tetrahydrofuran (THF)	68	4.7	0.80	0.31	J
107-06-2	1,2-Dichloroethane	0.80	2.4	0.80	0.28	U
71-43-2	Benzene	0.69	2.4	0.80	0.36	J
56-23-5	Carbon Tetrachloride	0.80	2.4	0.80	0.35	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00608

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.27

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>0.85</b>	4.7	1.6	0.71	<b>J</b>
75-27-4	Bromodichloromethane	0.80	2.4	0.80	0.36	<b>U</b>
79-01-6	Trichloroethene	<b>47</b>	2.4	0.80	0.34	
123-91-1	1,4-Dioxane	0.80	2.4	0.80	0.30	<b>U</b>
142-82-5	n-Heptane	<b>3.8</b>	2.4	1.5	0.40	
108-10-1	4-Methyl-2-pentanone	<b>0.62</b>	4.7	0.80	0.34	<b>J</b>
108-88-3	Toluene	<b>4.0</b>	2.4	0.80	0.31	
591-78-6	2-Hexanone	0.80	4.7	0.80	0.31	<b>U</b>
124-48-1	Dibromochloromethane	0.80	2.4	0.80	0.33	<b>U</b>
106-93-4	1,2-Dibromoethane	0.80	2.4	0.80	0.29	<b>U</b>
127-18-4	Tetrachloroethene	<b>3.2</b>	2.4	0.80	0.32	
100-41-4	Ethylbenzene	<b>1.4</b>	2.4	0.80	0.35	<b>J</b>
179601-23-1	m,p-Xylenes	<b>16</b>	4.7	1.6	0.66	
75-25-2	Bromoform	1.5	2.5	1.5	0.52	<b>U</b>
100-42-5	Styrene	1.5	2.4	1.5	0.40	<b>U</b>
95-47-6	o-Xylene	<b>6.9</b>	2.5	0.80	0.36	
108-67-8	1,3,5-Trimethylbenzene	<b>3.7</b>	2.5	0.80	0.36	
95-63-6	1,2,4-Trimethylbenzene	<b>10</b>	2.4	0.80	0.35	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	<b>U</b>
91-20-3	Naphthalene	<b>1.1</b>	2.4	1.5	0.61	<b>J</b>
1330-20-7	Xylenes, Total	<b>23</b>	4.7	1.6	0.66	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00417

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.96 Final Pressure (psig): 7.18

Container Dilution Factor: 1.86

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	17	2.4	1.5	0.60	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	2.4	1.5	0.40	
74-87-3	Chloromethane	0.45	2.4	1.5	0.40	J
75-01-4	Vinyl Chloride	0.79	2.5	0.79	0.27	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	12	25	3.9	1.7	J
67-64-1	Acetone	180	24	13	5.6	
75-69-4	Trichlorofluoromethane	1.2	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	41	4.7	2.9	1.0	
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.70	U
76-13-1	Trichlorotrifluoroethane	9.9	2.5	0.79	0.35	
75-15-0	Carbon Disulfide	25	4.7	2.5	0.74	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	9.6	4.7	1.5	0.51	
141-78-6	Ethyl Acetate	3.0	4.7	3.0	1.3	U
110-54-3	n-Hexane	0.80	2.4	1.5	0.51	J
67-66-3	Chloroform	0.95	2.5	0.79	0.33	J
109-99-9	Tetrahydrofuran (THF)	34	4.7	0.79	0.31	
107-06-2	1,2-Dichloroethane	0.79	2.4	0.79	0.27	U
71-43-2	Benzene	4.1	2.4	0.79	0.36	
56-23-5	Carbon Tetrachloride	2.0	2.4	0.79	0.34	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00417

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.96 Final Pressure (psig): 7.18

Container Dilution Factor: 1.86

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>0.80</b>	4.7	1.6	0.70	<b>J</b>
75-27-4	Bromodichloromethane	0.79	2.4	0.79	0.36	<b>U</b>
79-01-6	Trichloroethene	<b>310</b>	2.4	0.79	0.33	
123-91-1	1,4-Dioxane	0.79	2.4	0.79	0.29	<b>U</b>
142-82-5	n-Heptane	<b>3.0</b>	2.4	1.5	0.40	
108-10-1	4-Methyl-2-pentanone	<b>0.45</b>	4.7	0.79	0.34	<b>J</b>
108-88-3	Toluene	<b>2.3</b>	2.4	0.79	0.30	<b>J</b>
591-78-6	2-Hexanone	<b>1.9</b>	4.7	0.79	0.31	<b>J</b>
124-48-1	Dibromochloromethane	0.79	2.4	0.79	0.33	<b>U</b>
106-93-4	1,2-Dibromoethane	0.79	2.4	0.79	0.29	<b>U</b>
127-18-4	Tetrachloroethene	<b>13</b>	2.4	0.79	0.32	
100-41-4	Ethylbenzene	<b>0.75</b>	2.4	0.79	0.35	<b>J</b>
179601-23-1	m,p-Xylenes	<b>8.3</b>	4.7	1.6	0.65	
75-25-2	Bromoform	1.5	2.5	1.5	0.51	<b>U</b>
100-42-5	Styrene	1.5	2.4	1.5	0.40	<b>U</b>
95-47-6	o-Xylene	<b>3.4</b>	2.5	0.79	0.36	
108-67-8	1,3,5-Trimethylbenzene	<b>1.9</b>	2.5	0.79	0.36	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>5.0</b>	2.4	0.79	0.34	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.60	<b>U</b>
91-20-3	Naphthalene	<b>0.80</b>	2.4	1.4	0.60	<b>J</b>
1330-20-7	Xylenes, Total	<b>12</b>	4.7	1.6	0.65	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00491

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.37 Final Pressure (psig): 7.59

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.6	1.6	0.64	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	2.6	1.6	0.43	
74-87-3	Chloromethane	1.6	2.6	1.6	0.42	U
75-01-4	Vinyl Chloride	0.84	2.6	0.84	0.28	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	2.6	26	4.1	1.8	J
67-64-1	Acetone	8.7	26	13	5.9	J
75-69-4	Trichlorofluoromethane	2.8	2.5	1.6	0.40	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.1	4.9	3.1	1.1	U
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.74	U
76-13-1	Trichlorotrifluoroethane	1.0	2.6	0.84	0.37	J
75-15-0	Carbon Disulfide	9.8	4.9	2.7	0.79	
75-34-3	1,1-Dichloroethane	1.6	2.7	1.6	0.38	U
78-93-3	2-Butanone (MEK)	2.2	4.9	1.6	0.54	J
141-78-6	Ethyl Acetate	3.2	4.9	3.2	1.4	U
110-54-3	n-Hexane	1.6	2.6	1.6	0.54	U
67-66-3	Chloroform	0.84	2.6	0.84	0.35	U
109-99-9	Tetrahydrofuran (THF)	3.0	4.9	0.84	0.33	J
107-06-2	1,2-Dichloroethane	0.84	2.6	0.84	0.29	U
71-43-2	Benzene	0.84	2.6	0.84	0.38	U
56-23-5	Carbon Tetrachloride	2.9	2.5	0.84	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00491

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.37 Final Pressure (psig): 7.59

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	4.9	1.7	0.74	U
75-27-4	Bromodichloromethane	0.84	2.6	0.84	0.38	U
79-01-6	Trichloroethene	<b>0.59</b>	2.5	0.84	0.35	J
123-91-1	1,4-Dioxane	<b>0.47</b>	2.6	0.84	0.31	J
142-82-5	n-Heptane	1.6	2.6	1.6	0.42	U
108-10-1	4-Methyl-2-pentanone	0.84	4.9	0.84	0.36	U
108-88-3	Toluene	0.84	2.6	0.84	0.32	U
591-78-6	2-Hexanone	0.84	4.9	0.84	0.33	U
124-48-1	Dibromochloromethane	0.84	2.6	0.84	0.34	U
106-93-4	1,2-Dibromoethane	0.84	2.6	0.84	0.31	U
127-18-4	Tetrachloroethene	<b>1.0</b>	2.6	0.84	0.34	J
100-41-4	Ethylbenzene	0.84	2.6	0.84	0.37	U
179601-23-1	m,p-Xylenes	1.7	4.9	1.7	0.69	U
75-25-2	Bromoform	1.6	2.6	1.6	0.54	U
100-42-5	Styrene	1.6	2.6	1.6	0.42	U
95-47-6	o-Xylene	0.84	2.6	0.84	0.38	U
108-67-8	1,3,5-Trimethylbenzene	0.84	2.6	0.84	0.38	U
95-63-6	1,2,4-Trimethylbenzene	0.84	2.6	0.84	0.36	U
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.64	U
91-20-3	Naphthalene	1.5	2.6	1.5	0.64	U
1330-20-7	Xylenes, Total	1.7	4.9	1.7	0.69	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01266

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21 - 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 7.77

Container Dilution Factor: 2.03

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.0	2.6	1.6	0.66	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	2.6	1.6	0.44	J
74-87-3	Chloromethane	1.6	2.6	1.6	0.44	U
75-01-4	Vinyl Chloride	0.86	2.7	0.86	0.29	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.45	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	4.2	27	4.2	1.9	U
67-64-1	Acetone	120	26	14	6.1	
75-69-4	Trichlorofluoromethane	0.85	2.6	1.6	0.41	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	5.1	3.2	1.1	U
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.76	U
76-13-1	Trichlorotrifluoroethane	14	2.7	0.86	0.39	
75-15-0	Carbon Disulfide	14	5.1	2.7	0.81	
75-34-3	1,1-Dichloroethane	1.7	2.7	1.7	0.40	U
78-93-3	2-Butanone (MEK)	5.2	5.1	1.6	0.56	
141-78-6	Ethyl Acetate	3.3	5.1	3.3	1.4	U
110-54-3	n-Hexane	3.6	2.6	1.6	0.56	
67-66-3	Chloroform	2.3	2.7	0.86	0.36	J
109-99-9	Tetrahydrofuran (THF)	10	5.1	0.86	0.34	
107-06-2	1,2-Dichloroethane	0.86	2.6	0.86	0.30	U
71-43-2	Benzene	4.6	2.6	0.86	0.39	
56-23-5	Carbon Tetrachloride	6.9	2.6	0.86	0.38	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01266

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/21 - 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 7.77

Container Dilution Factor: 2.03

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.8	5.1	1.7	0.76	J
75-27-4	Bromodichloromethane	0.86	2.6	0.86	0.39	U
79-01-6	Trichloroethene	1,700	26	8.6	3.7	D
123-91-1	1,4-Dioxane	0.86	2.6	0.86	0.32	U
142-82-5	n-Heptane	14	2.6	1.6	0.43	
108-10-1	4-Methyl-2-pentanone	0.86	5.1	0.86	0.37	U
108-88-3	Toluene	10	2.6	0.86	0.33	
591-78-6	2-Hexanone	0.86	5.1	0.86	0.33	U
124-48-1	Dibromochloromethane	0.86	2.6	0.86	0.36	U
106-93-4	1,2-Dibromoethane	0.86	2.6	0.86	0.31	U
127-18-4	Tetrachloroethene	22	2.6	0.86	0.35	
100-41-4	Ethylbenzene	2.9	2.6	0.86	0.38	
179601-23-1	m,p-Xylenes	35	5.1	1.7	0.71	
75-25-2	Bromoform	1.6	2.7	1.6	0.56	U
100-42-5	Styrene	1.6	2.6	1.6	0.44	U
95-47-6	o-Xylene	14	2.7	0.86	0.39	
108-67-8	1,3,5-Trimethylbenzene	6.7	2.7	0.86	0.39	
95-63-6	1,2,4-Trimethylbenzene	18	2.6	0.86	0.38	
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.66	U
91-20-3	Naphthalene	1.8	2.6	1.6	0.66	J
1330-20-7	Xylenes, Total	49	5.1	1.7	0.71	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00781

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 8.64

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.8	2.6	1.6	0.66	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.61	2.6	1.6	0.44	J
74-87-3	Chloromethane	0.94	2.6	1.6	0.43	J
75-01-4	Vinyl Chloride	0.86	2.7	0.86	0.29	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.44	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	8.9	27	4.2	1.9	J
67-64-1	Acetone	64	26	14	6.1	J
75-69-4	Trichlorofluoromethane	1.6	2.6	1.6	0.41	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	5.1	3.2	1.1	J
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.76	U
76-13-1	Trichlorotrifluoroethane	1.9	2.7	0.86	0.38	J
75-15-0	Carbon Disulfide	15	5.1	2.7	0.81	J
75-34-3	1,1-Dichloroethane	1.7	2.7	1.7	0.39	U
78-93-3	2-Butanone (MEK)	1.6	5.1	1.6	0.56	U
141-78-6	Ethyl Acetate	3.3	5.1	3.3	1.4	U
110-54-3	n-Hexane	0.63	2.6	1.6	0.56	J
67-66-3	Chloroform	3.9	2.7	0.86	0.36	J
109-99-9	Tetrahydrofuran (THF)	11	5.1	0.86	0.34	J
107-06-2	1,2-Dichloroethane	0.86	2.6	0.86	0.30	U
71-43-2	Benzene	3.7	2.6	0.86	0.39	J
56-23-5	Carbon Tetrachloride	1.7	2.6	0.86	0.37	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00781

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 8.64

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	5.1	1.7	0.76	U
75-27-4	Bromodichloromethane	0.86	2.6	0.86	0.39	U
79-01-6	Trichloroethene	<b>390</b>	2.6	0.86	0.36	
123-91-1	1,4-Dioxane	0.86	2.6	0.86	0.32	U
142-82-5	n-Heptane	<b>2.0</b>	2.6	1.6	0.43	J
108-10-1	4-Methyl-2-pentanone	0.86	5.1	0.86	0.37	U
108-88-3	Toluene	<b>1.9</b>	2.6	0.86	0.33	J
591-78-6	2-Hexanone	0.86	5.1	0.86	0.33	U
124-48-1	Dibromochloromethane	0.86	2.6	0.86	0.35	U
106-93-4	1,2-Dibromoethane	0.86	2.6	0.86	0.31	U
127-18-4	Tetrachloroethene	<b>2.7</b>	2.6	0.86	0.35	
100-41-4	Ethylbenzene	<b>0.45</b>	2.6	0.86	0.38	J
179601-23-1	m,p-Xylenes	<b>5.0</b>	5.1	1.7	0.71	J
75-25-2	Bromoform	1.6	2.7	1.6	0.56	U
100-42-5	Styrene	<b>0.47</b>	2.6	1.6	0.43	J
95-47-6	o-Xylene	<b>2.0</b>	2.7	0.86	0.39	J
108-67-8	1,3,5-Trimethylbenzene	<b>1.2</b>	2.7	0.86	0.39	J
95-63-6	1,2,4-Trimethylbenzene	<b>3.2</b>	2.6	0.86	0.37	
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.66	U
91-20-3	Naphthalene	1.6	2.6	1.6	0.66	U
1330-20-7	Xylenes, Total	<b>7.0</b>	5.1	1.7	0.71	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00230

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.025 Liter(s)

Initial Pressure (psig): -3.39 Final Pressure (psig): 8.88

Container Dilution Factor: 2.08

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>120</b>	43	27	11	
75-71-8	Dichlorodifluoromethane (CFC 12)	27	43	27	7.2	U
74-87-3	Chloromethane	<b>32</b>	43	27	7.2	J
75-01-4	Vinyl Chloride	<b>5.8</b>	44	14	4.7	J
106-99-0	1,3-Butadiene	27	43	27	7.3	U
75-00-3	Chloroethane	27	43	27	5.5	U
64-17-5	Ethanol	69	440	69	31	U
67-64-1	Acetone	220	430	220	100	U
75-69-4	Trichlorofluoromethane	27	42	27	6.7	U
67-63-0	2-Propanol (Isopropyl Alcohol)	52	83	52	18	U
75-09-2	Methylene Chloride	27	43	27	12	U
76-13-1	Trichlorotrifluoroethane	14	44	14	6.3	U
75-15-0	Carbon Disulfide	<b>110</b>	83	45	13	
75-34-3	1,1-Dichloroethane	27	45	27	6.5	U
78-93-3	2-Butanone (MEK)	<b>230</b>	83	27	9.2	
141-78-6	Ethyl Acetate	54	83	54	23	U
110-54-3	n-Hexane	<b>710</b>	43	27	9.2	
67-66-3	Chloroform	14	44	14	5.9	U
109-99-9	Tetrahydrofuran (THF)	<b>91</b>	83	14	5.6	
107-06-2	1,2-Dichloroethane	14	43	14	4.9	U
71-43-2	Benzene	<b>1,000</b>	43	14	6.4	
56-23-5	Carbon Tetrachloride	14	42	14	6.2	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV133-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00230

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.025 Liter(s)

Initial Pressure (psig): -3.39 Final Pressure (psig): 8.88

Container Dilution Factor: 2.08

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1,500	83	28	12	
75-27-4	Bromodichloromethane	14	43	14	6.4	U
79-01-6	Trichloroethene	140	42	14	6.0	
123-91-1	1,4-Dioxane	14	43	14	5.2	U
142-82-5	n-Heptane	350	43	27	7.1	
108-10-1	4-Methyl-2-pentanone	32	83	14	6.1	J
108-88-3	Toluene	450	43	14	5.4	
591-78-6	2-Hexanone	14	83	14	5.5	U
124-48-1	Dibromochloromethane	14	43	14	5.8	U
106-93-4	1,2-Dibromoethane	14	43	14	5.2	U
127-18-4	Tetrachloroethene	14	43	14	5.7	U
100-41-4	Ethylbenzene	25	43	14	6.2	J
179601-23-1	m,p-Xylenes	41	83	28	12	J
75-25-2	Bromoform	27	44	27	9.2	U
100-42-5	Styrene	27	43	27	7.2	U
95-47-6	o-Xylene	26	44	14	6.4	J
108-67-8	1,3,5-Trimethylbenzene	14	44	14	6.4	U
95-63-6	1,2,4-Trimethylbenzene	14	43	14	6.2	U
120-82-1	1,2,4-Trichlorobenzene	27	83	27	11	U
91-20-3	Naphthalene	26	43	26	11	U
1330-20-7	Xylenes, Total	68	83	28	12	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00870

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.77 Final Pressure (psig): 9.08

Container Dilution Factor: 1.99

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.6	1.6	0.65	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	2.6	1.6	0.43	J
74-87-3	Chloromethane	1.6	2.6	1.6	0.43	U
75-01-4	Vinyl Chloride	0.85	2.6	0.85	0.28	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.44	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	13	26	4.1	1.8	J
67-64-1	Acetone	120	26	13	6.0	J
75-69-4	Trichlorofluoromethane	1.1	2.5	1.6	0.40	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	5.0	3.1	1.1	J
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.75	U
76-13-1	Trichlorotrifluoroethane	0.43	2.6	0.85	0.38	J
75-15-0	Carbon Disulfide	12	5.0	2.7	0.80	J
75-34-3	1,1-Dichloroethane	1.6	2.7	1.6	0.39	U
78-93-3	2-Butanone (MEK)	23	5.0	1.6	0.55	J
141-78-6	Ethyl Acetate	3.2	5.0	3.2	1.4	U
110-54-3	n-Hexane	1.6	2.6	1.6	0.55	U
67-66-3	Chloroform	4.1	2.6	0.85	0.35	J
109-99-9	Tetrahydrofuran (THF)	0.50	5.0	0.85	0.33	J
107-06-2	1,2-Dichloroethane	0.85	2.6	0.85	0.29	U
71-43-2	Benzene	0.85	2.6	0.85	0.38	U
56-23-5	Carbon Tetrachloride	0.85	2.5	0.85	0.37	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV136-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-014

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/22/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00870

Initial Pressure (psig): -2.77 Final Pressure (psig): 9.08

Container Dilution Factor: 1.99

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	5.0	1.7	0.75	U
75-27-4	Bromodichloromethane	<b>0.87</b>	2.6	0.85	0.38	J
79-01-6	Trichloroethene	0.85	2.5	0.85	0.36	U
123-91-1	1,4-Dioxane	0.85	2.6	0.85	0.31	U
142-82-5	n-Heptane	1.6	2.6	1.6	0.42	U
108-10-1	4-Methyl-2-pentanone	<b>0.81</b>	5.0	0.85	0.36	J
108-88-3	Toluene	<b>0.36</b>	2.6	0.85	0.32	J
591-78-6	2-Hexanone	<b>2.1</b>	5.0	0.85	0.33	J
124-48-1	Dibromochloromethane	0.85	2.6	0.85	0.35	U
106-93-4	1,2-Dibromoethane	0.85	2.6	0.85	0.31	U
127-18-4	Tetrachloroethene	<b>0.45</b>	2.6	0.85	0.34	J
100-41-4	Ethylbenzene	0.85	2.6	0.85	0.37	U
179601-23-1	m,p-Xylenes	1.7	5.0	1.7	0.70	U
75-25-2	Bromoform	1.6	2.6	1.6	0.55	U
100-42-5	Styrene	1.6	2.6	1.6	0.43	U
95-47-6	o-Xylene	0.85	2.6	0.85	0.38	U
108-67-8	1,3,5-Trimethylbenzene	0.85	2.6	0.85	0.38	U
95-63-6	1,2,4-Trimethylbenzene	0.85	2.6	0.85	0.37	U
120-82-1	1,2,4-Trichlorobenzene	1.6	5.0	1.6	0.65	U
91-20-3	Naphthalene	1.5	2.6	1.5	0.65	U
1330-20-7	Xylenes, Total	1.7	5.0	1.7	0.70	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00440

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 8.30

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.8	2.4	1.5	0.61	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	2.4	1.5	0.41	J
74-87-3	Chloromethane	1.0	2.4	1.5	0.40	J
75-01-4	Vinyl Chloride	0.80	2.5	0.80	0.27	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	16	25	3.9	1.7	J
67-64-1	Acetone	77	24	13	5.6	
75-69-4	Trichlorofluoromethane	1.1	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	6.3	4.7	3.0	1.0	
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	0.45	2.5	0.80	0.36	J
75-15-0	Carbon Disulfide	6.1	4.7	2.5	0.75	
75-34-3	1,1-Dichloroethane	1.6	2.5	1.6	0.37	U
78-93-3	2-Butanone (MEK)	18	4.7	1.5	0.52	
141-78-6	Ethyl Acetate	120	4.7	3.1	1.3	
110-54-3	n-Hexane	0.96	2.4	1.5	0.52	J
67-66-3	Chloroform	6.6	2.5	0.80	0.33	
109-99-9	Tetrahydrofuran (THF)	1.4	4.7	0.80	0.31	J
107-06-2	1,2-Dichloroethane	0.80	2.4	0.80	0.28	U
71-43-2	Benzene	1.8	2.4	0.80	0.36	J
56-23-5	Carbon Tetrachloride	0.80	2.4	0.80	0.35	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00440

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 8.30

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.7	1.6	0.71	U
75-27-4	Bromodichloromethane	<b>1.6</b>	2.4	0.80	0.36	J
79-01-6	Trichloroethene	0.80	2.4	0.80	0.34	U
123-91-1	1,4-Dioxane	0.80	2.4	0.80	0.30	U
142-82-5	n-Heptane	<b>1.7</b>	2.4	1.5	0.40	J
108-10-1	4-Methyl-2-pentanone	<b>0.56</b>	4.7	0.80	0.34	J
108-88-3	Toluene	<b>8.0</b>	2.4	0.80	0.31	J
591-78-6	2-Hexanone	<b>1.5</b>	4.7	0.80	0.31	J
124-48-1	Dibromochloromethane	0.80	2.4	0.80	0.33	U
106-93-4	1,2-Dibromoethane	0.80	2.4	0.80	0.29	U
127-18-4	Tetrachloroethene	<b>0.35</b>	2.4	0.80	0.32	J
100-41-4	Ethylbenzene	<b>0.44</b>	2.4	0.80	0.35	J
179601-23-1	m,p-Xylenes	<b>1.4</b>	4.7	1.6	0.66	J
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	<b>0.61</b>	2.4	1.5	0.40	J
95-47-6	o-Xylene	<b>0.52</b>	2.5	0.80	0.36	J
108-67-8	1,3,5-Trimethylbenzene	0.80	2.5	0.80	0.36	U
95-63-6	1,2,4-Trimethylbenzene	0.80	2.4	0.80	0.35	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	1.5	2.4	1.5	0.61	U
1330-20-7	Xylenes, Total	<b>1.9</b>	4.7	1.6	0.66	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00716

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.88 Final Pressure (psig): 7.20

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.6	1.6	0.66	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>3.0</b>	2.6	1.6	0.44	
74-87-3	Chloromethane	1.6	2.6	1.6	0.43	U
75-01-4	Vinyl Chloride	0.86	2.7	0.86	0.29	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.44	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	<b>2.7</b>	27	4.2	1.9	J
67-64-1	Acetone	<b>7.5</b>	26	14	6.1	J
75-69-4	Trichlorofluoromethane	<b>2.0</b>	2.6	1.6	0.41	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	5.1	3.2	1.1	U
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.76	U
76-13-1	Trichlorotrifluoroethane	<b>0.79</b>	2.7	0.86	0.38	J
75-15-0	Carbon Disulfide	<b>3.4</b>	5.1	2.7	0.81	J
75-34-3	1,1-Dichloroethane	1.7	2.7	1.7	0.39	U
78-93-3	2-Butanone (MEK)	<b>1.5</b>	5.1	1.6	0.56	J
141-78-6	Ethyl Acetate	3.3	5.1	3.3	1.4	U
110-54-3	n-Hexane	1.6	2.6	1.6	0.56	U
67-66-3	Chloroform	<b>1.6</b>	2.7	0.86	0.36	J
109-99-9	Tetrahydrofuran (THF)	<b>0.82</b>	5.1	0.86	0.34	J
107-06-2	1,2-Dichloroethane	0.86	2.6	0.86	0.30	U
71-43-2	Benzene	0.86	2.6	0.86	0.39	U
56-23-5	Carbon Tetrachloride	<b>1.2</b>	2.6	0.86	0.37	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00716

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.88 Final Pressure (psig): 7.20

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	5.1	1.7	0.76	U
75-27-4	Bromodichloromethane	<b>0.65</b>	2.6	0.86	0.39	J
79-01-6	Trichloroethene	0.86	2.6	0.86	0.36	U
123-91-1	1,4-Dioxane	0.86	2.6	0.86	0.32	U
142-82-5	n-Heptane	1.6	2.6	1.6	0.43	U
108-10-1	4-Methyl-2-pentanone	0.86	5.1	0.86	0.37	U
108-88-3	Toluene	0.86	2.6	0.86	0.33	U
591-78-6	2-Hexanone	0.86	5.1	0.86	0.33	U
124-48-1	Dibromochloromethane	0.86	2.6	0.86	0.35	U
106-93-4	1,2-Dibromoethane	0.86	2.6	0.86	0.31	U
127-18-4	Tetrachloroethene	<b>0.54</b>	2.6	0.86	0.35	J
100-41-4	Ethylbenzene	0.86	2.6	0.86	0.38	U
179601-23-1	m,p-Xylenes	1.7	5.1	1.7	0.71	U
75-25-2	Bromoform	1.6	2.7	1.6	0.56	U
100-42-5	Styrene	1.6	2.6	1.6	0.43	U
95-47-6	o-Xylene	0.86	2.7	0.86	0.39	U
108-67-8	1,3,5-Trimethylbenzene	0.86	2.7	0.86	0.39	U
95-63-6	1,2,4-Trimethylbenzene	0.86	2.6	0.86	0.37	U
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.66	U
91-20-3	Naphthalene	1.6	2.6	1.6	0.66	U
1330-20-7	Xylenes, Total	1.7	5.1	1.7	0.71	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00941

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 8.67

Container Dilution Factor: 2.04

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.7	1.6	0.66	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	2.7	1.6	0.44	J
74-87-3	Chloromethane	1.6	2.7	1.6	0.44	U
75-01-4	Vinyl Chloride	0.87	2.7	0.87	0.29	U
106-99-0	1,3-Butadiene	1.6	2.7	1.6	0.45	U
75-00-3	Chloroethane	1.6	2.7	1.6	0.34	U
64-17-5	Ethanol	13	27	4.2	1.9	J
67-64-1	Acetone	120	27	14	6.1	J
75-69-4	Trichlorofluoromethane	0.85	2.6	1.6	0.41	J
67-63-0	2-Propanol (Isopropyl Alcohol)	5.6	5.1	3.2	1.1	J
75-09-2	Methylene Chloride	1.6	2.7	1.6	0.77	U
76-13-1	Trichlorotrifluoroethane	13	2.7	0.87	0.39	J
75-15-0	Carbon Disulfide	8.3	5.1	2.8	0.82	J
75-34-3	1,1-Dichloroethane	1.7	2.8	1.7	0.40	U
78-93-3	2-Butanone (MEK)	2.9	5.1	1.6	0.56	J
141-78-6	Ethyl Acetate	130	5.1	3.3	1.4	J
110-54-3	n-Hexane	1.5	2.7	1.6	0.56	J
67-66-3	Chloroform	2.1	2.7	0.87	0.36	J
109-99-9	Tetrahydrofuran (THF)	7.4	5.1	0.87	0.34	J
107-06-2	1,2-Dichloroethane	0.87	2.7	0.87	0.30	U
71-43-2	Benzene	1.8	2.7	0.87	0.39	J
56-23-5	Carbon Tetrachloride	6.6	2.6	0.87	0.38	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00941

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 8.67

Container Dilution Factor: 2.04

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.1	5.1	1.7	0.77	J
75-27-4	Bromodichloromethane	0.87	2.7	0.87	0.39	U
79-01-6	Trichloroethene	1,700	26	8.7	3.7	D
123-91-1	1,4-Dioxane	0.87	2.7	0.87	0.32	U
142-82-5	n-Heptane	4.1	2.7	1.6	0.43	
108-10-1	4-Methyl-2-pentanone	0.43	5.1	0.87	0.37	J
108-88-3	Toluene	9.9	2.7	0.87	0.33	
591-78-6	2-Hexanone	0.87	5.1	0.87	0.34	U
124-48-1	Dibromochloromethane	0.87	2.7	0.87	0.36	U
106-93-4	1,2-Dibromoethane	0.87	2.7	0.87	0.32	U
127-18-4	Tetrachloroethene	21	2.7	0.87	0.35	
100-41-4	Ethylbenzene	0.86	2.7	0.87	0.38	J
179601-23-1	m,p-Xylenes	7.9	5.1	1.7	0.71	
75-25-2	Bromoform	1.6	2.7	1.6	0.56	U
100-42-5	Styrene	0.47	2.7	1.6	0.44	J
95-47-6	o-Xylene	3.3	2.7	0.87	0.39	
108-67-8	1,3,5-Trimethylbenzene	1.6	2.7	0.87	0.39	J
95-63-6	1,2,4-Trimethylbenzene	4.5	2.7	0.87	0.38	
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.66	U
91-20-3	Naphthalene	1.6	2.7	1.6	0.66	U
1330-20-7	Xylenes, Total	11	5.1	1.7	0.71	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01369

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.70 Final Pressure (psig): 8.04

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.62	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.6	2.5	1.5	0.41	J
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.81	2.5	0.81	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.31	U
64-17-5	Ethanol	2.8	25	3.9	1.8	J
67-64-1	Acetone	41	25	13	5.7	J
75-69-4	Trichlorofluoromethane	1.5	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	0.50	2.5	0.81	0.36	J
75-15-0	Carbon Disulfide	8.2	4.8	2.6	0.76	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	3.7	4.8	1.5	0.52	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.5	1.5	0.52	U
67-66-3	Chloroform	0.81	2.5	0.81	0.34	U
109-99-9	Tetrahydrofuran (THF)	15	4.8	0.81	0.32	J
107-06-2	1,2-Dichloroethane	0.81	2.5	0.81	0.28	U
71-43-2	Benzene	0.81	2.5	0.81	0.37	U
56-23-5	Carbon Tetrachloride	1.7	2.4	0.81	0.35	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01369

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.70 Final Pressure (psig): 8.04

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.71	U
75-27-4	Bromodichloromethane	0.81	2.5	0.81	0.37	U
79-01-6	Trichloroethene	<b>0.80</b>	2.4	0.81	0.34	J
123-91-1	1,4-Dioxane	<b>0.35</b>	2.5	0.81	0.30	J
142-82-5	n-Heptane	1.5	2.5	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	<b>0.36</b>	4.8	0.81	0.35	J
108-88-3	Toluene	0.81	2.5	0.81	0.31	U
591-78-6	2-Hexanone	<b>0.41</b>	4.8	0.81	0.31	J
124-48-1	Dibromochloromethane	0.81	2.5	0.81	0.33	U
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.29	U
127-18-4	Tetrachloroethene	<b>0.35</b>	2.5	0.81	0.33	J
100-41-4	Ethylbenzene	0.81	2.5	0.81	0.36	U
179601-23-1	m,p-Xylenes	1.6	4.8	1.6	0.67	U
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.81	2.5	0.81	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.81	2.5	0.81	0.37	U
95-63-6	1,2,4-Trimethylbenzene	0.81	2.5	0.81	0.35	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	1.6	4.8	1.6	0.67	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV136-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00058

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.85 Final Pressure (psig): 7.75

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	4.2	2.5	1.5	0.61	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.2	2.5	1.5	0.41	J
74-87-3	Chloromethane	21	2.5	1.5	0.41	
75-01-4	Vinyl Chloride	11	2.5	0.80	0.27	
106-99-0	1,3-Butadiene	0.86	2.5	1.5	0.42	J
75-00-3	Chloroethane	5.4	2.5	1.5	0.31	
64-17-5	Ethanol	2.1	25	3.9	1.7	J
67-64-1	Acetone	17	25	13	5.7	J
75-69-4	Trichlorofluoromethane	0.97	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.7	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	0.37	2.5	0.80	0.36	J
75-15-0	Carbon Disulfide	180	4.7	2.6	0.76	
75-34-3	1,1-Dichloroethane	1.1	2.6	1.6	0.37	J
78-93-3	2-Butanone (MEK)	7.0	4.7	1.5	0.52	
141-78-6	Ethyl Acetate	3.1	4.7	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.5	1.5	0.52	U
67-66-3	Chloroform	0.52	2.5	0.80	0.34	J
109-99-9	Tetrahydrofuran (THF)	76	4.7	0.80	0.32	
107-06-2	1,2-Dichloroethane	1.3	2.5	0.80	0.28	J
71-43-2	Benzene	0.93	2.5	0.80	0.36	J
56-23-5	Carbon Tetrachloride	1.2	2.4	0.80	0.35	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV136-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-019

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/22/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00058

Initial Pressure (psig): -2.85 Final Pressure (psig): 7.75

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.7	1.6	0.71	U
75-27-4	Bromodichloromethane	0.80	2.5	0.80	0.36	U
79-01-6	Trichloroethene	0.80	2.4	0.80	0.34	U
123-91-1	1,4-Dioxane	<b>0.61</b>	2.5	0.80	0.30	J
142-82-5	n-Heptane	<b>0.60</b>	2.5	1.5	0.40	J
108-10-1	4-Methyl-2-pentanone	0.80	4.7	0.80	0.34	U
108-88-3	Toluene	<b>0.71</b>	2.5	0.80	0.31	J
591-78-6	2-Hexanone	0.80	4.7	0.80	0.31	U
124-48-1	Dibromochloromethane	0.80	2.5	0.80	0.33	U
106-93-4	1,2-Dibromoethane	0.80	2.5	0.80	0.29	U
127-18-4	Tetrachloroethene	<b>0.88</b>	2.5	0.80	0.33	J
100-41-4	Ethylbenzene	0.80	2.5	0.80	0.35	U
179601-23-1	m,p-Xylenes	1.6	4.7	1.6	0.66	U
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.80	2.5	0.80	0.36	U
108-67-8	1,3,5-Trimethylbenzene	0.80	2.5	0.80	0.36	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.35</b>	2.5	0.80	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.61	U
1330-20-7	Xylenes, Total	1.6	4.7	1.6	0.66	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00991

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.16 Final Pressure (psig): 7.61

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.63	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	2.5	1.5	0.42	J
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	4.0	26	4.0	1.8	U
67-64-1	Acetone	13	25	13	5.8	U
75-69-4	Trichlorofluoromethane	8.1	2.5	1.5	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	0.44	2.6	0.82	0.37	J
75-15-0	Carbon Disulfide	4.0	4.8	2.6	0.77	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	1.5	4.8	1.5	0.53	U
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.4	U
110-54-3	n-Hexane	1.5	2.5	1.5	0.53	U
67-66-3	Chloroform	0.82	2.6	0.82	0.34	U
109-99-9	Tetrahydrofuran (THF)	1.6	4.8	0.82	0.32	J
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	0.88	2.5	0.82	0.37	J
56-23-5	Carbon Tetrachloride	0.82	2.5	0.82	0.36	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00991

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.16 Final Pressure (psig): 7.61

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.72	U
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	0.82	2.5	0.82	0.35	U
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.30	U
142-82-5	n-Heptane	<b>0.61</b>	2.5	1.5	0.41	J
108-10-1	4-Methyl-2-pentanone	0.82	4.8	0.82	0.35	U
108-88-3	Toluene	<b>1.7</b>	2.5	0.82	0.31	J
591-78-6	2-Hexanone	0.82	4.8	0.82	0.32	U
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	<b>0.35</b>	2.5	0.82	0.33	J
100-41-4	Ethylbenzene	0.82	2.5	0.82	0.36	U
179601-23-1	m,p-Xylenes	<b>0.69</b>	4.8	1.6	0.68	J
75-25-2	Bromoform	1.5	2.6	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.82	2.6	0.82	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.82	2.6	0.82	0.37	U
95-63-6	1,2,4-Trimethylbenzene	0.82	2.5	0.82	0.36	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.63	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	U
1330-20-7	Xylenes, Total	<b>0.69</b>	4.8	1.6	0.68	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVTB204-01**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-021

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00125

Date Collected: 10/7/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.80	1.3	0.80	0.33	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.80	1.3	0.80	0.22	U
74-87-3	Chloromethane	0.80	1.3	0.80	0.22	U
75-01-4	Vinyl Chloride	0.43	1.3	0.43	0.14	U
106-99-0	1,3-Butadiene	0.80	1.3	0.80	0.22	U
75-00-3	Chloroethane	0.80	1.3	0.80	0.17	U
64-17-5	Ethanol	9.3	13	2.1	0.93	J
67-64-1	Acetone	6.0	13	6.8	3.0	J
75-69-4	Trichlorofluoromethane	0.80	1.3	0.80	0.20	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.71	2.5	1.6	0.55	J
75-09-2	Methylene Chloride	0.80	1.3	0.80	0.38	U
76-13-1	Trichlorotrifluoroethane	0.43	1.3	0.43	0.19	U
75-15-0	Carbon Disulfide	1.4	2.5	1.4	0.40	U
75-34-3	1,1-Dichloroethane	0.83	1.4	0.83	0.20	U
78-93-3	2-Butanone (MEK)	2.9	2.5	0.80	0.28	
141-78-6	Ethyl Acetate	1.2	2.5	1.6	0.70	J
110-54-3	n-Hexane	0.80	1.3	0.80	0.28	U
67-66-3	Chloroform	0.43	1.3	0.43	0.18	U
109-99-9	Tetrahydrofuran (THF)	0.43	2.5	0.43	0.17	U
107-06-2	1,2-Dichloroethane	0.43	1.3	0.43	0.15	U
71-43-2	Benzene	0.43	1.3	0.43	0.19	U
56-23-5	Carbon Tetrachloride	0.43	1.3	0.43	0.19	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SVTB204-01

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

ALS Sample ID: P2005748-021

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00125

Date Collected: 10/7/20

Date Received: 10/12/20

Date Analyzed: 10/22/20

Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.85	2.5	0.85	0.38	U
75-27-4	Bromodichloromethane	0.43	1.3	0.43	0.19	U
79-01-6	Trichloroethene	0.43	1.3	0.43	0.18	U
123-91-1	1,4-Dioxane	0.43	1.3	0.43	0.16	U
142-82-5	n-Heptane	0.80	1.3	0.80	0.21	U
108-10-1	4-Methyl-2-pentanone	0.43	2.5	0.43	0.18	U
108-88-3	Toluene	<b>0.86</b>	1.3	0.43	0.16	J
591-78-6	2-Hexanone	<b>0.25</b>	2.5	0.43	0.17	J
124-48-1	Dibromochloromethane	0.43	1.3	0.43	0.18	U
106-93-4	1,2-Dibromoethane	0.43	1.3	0.43	0.16	U
127-18-4	Tetrachloroethene	0.43	1.3	0.43	0.17	U
100-41-4	Ethylbenzene	0.43	1.3	0.43	0.19	U
179601-23-1	m,p-Xylenes	0.85	2.5	0.85	0.35	U
75-25-2	Bromoform	0.80	1.3	0.80	0.28	U
100-42-5	Styrene	<b>0.51</b>	1.3	0.80	0.22	J
95-47-6	o-Xylene	0.43	1.3	0.43	0.19	U
108-67-8	1,3,5-Trimethylbenzene	0.43	1.3	0.43	0.19	U
95-63-6	1,2,4-Trimethylbenzene	0.43	1.3	0.43	0.19	U
120-82-1	1,2,4-Trichlorobenzene	0.80	2.5	0.80	0.33	U
91-20-3	Naphthalene	0.78	1.3	0.78	0.33	U
1330-20-7	Xylenes, Total	0.85	2.5	0.85	0.35	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201020-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201021-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201021-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date(s) Collected: 10/6 - 10/7/20

Analyst: Simon Cao

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 10/20 - 10/22/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201020-MB	99	100	99	70-130	
Method Blank	P201021-MB	99	100	101	70-130	
Lab Control Sample	P201020-LCS	99	97	97	70-130	
Lab Control Sample	P201021-LCS	100	98	100	70-130	
Duplicate Lab Control Sample	P201020-DLCS	100	98	98	70-130	
Duplicate Lab Control Sample	P201021-DLCS	99	98	100	70-130	
SV128-025-204	P2005748-001	101	100	101	70-130	
SV128-050-204	P2005748-002	99	99	101	70-130	
SV128-150-204	P2005748-003	99	100	102	70-130	
SV128-250-204	P2005748-004	99	91	93	70-130	
SV128-350-204	P2005748-005	100	90	92	70-130	
SV128-450-204	P2005748-006	100	92	94	70-130	
SV133-025-204	P2005748-007	100	98	101	70-130	
SV133-050-204	P2005748-008	99	100	102	70-130	
SV133-170-204	P2005748-009	101	98	101	70-130	
SV133-250-204	P2005748-010	100	100	102	70-130	
SV133-250-604	P2005748-011	100	100	103	70-130	
SV133-350-204	P2005748-012	100	99	102	70-130	
SV133-450-204	P2005748-013	98	100	100	70-130	
SV136-025-204	P2005748-014	101	99	102	70-130	
SV136-050-204	P2005748-015	101	99	103	70-130	
SV136-150-204	P2005748-016	100	100	102	70-130	
SV136-250-204	P2005748-017	100	100	103	70-130	
SV136-350-204	P2005748-018	100	100	102	70-130	
SV136-450-204	P2005748-019	99	100	102	70-130	
SV138-025-204	P2005748-020	100	100	102	70-130	
SVTB204-01	P2005748-021	100	100	102	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$			Limits	Limit	
115-07-1	Propene	210	188	192		<b>90</b>	<b>91</b>	57-136	1	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	179	180		<b>85</b>	<b>86</b>	59-128	1	25
74-87-3	Chloromethane	206	181	183		<b>88</b>	<b>89</b>	59-132	1	25
75-01-4	Vinyl Chloride	208	192	193		<b>92</b>	<b>93</b>	64-127	1	25
106-99-0	1,3-Butadiene	210	213	213		<b>101</b>	<b>101</b>	66-134	0	25
75-00-3	Chloroethane	204	189	190		<b>93</b>	<b>93</b>	63-127	0	25
64-17-5	Ethanol	998	877	889		<b>88</b>	<b>89</b>	59-125	1	25
67-64-1	Acetone	1,030	884	885		<b>86</b>	<b>86</b>	58-128	0	25
75-69-4	Trichlorofluoromethane	204	172	173		<b>84</b>	<b>85</b>	62-126	1	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	371	368		<b>91</b>	<b>90</b>	52-125	1	25
75-09-2	Methylene Chloride	208	190	192		<b>91</b>	<b>92</b>	62-115	1	25
76-13-1	Trichlorotrifluoroethane	214	182	182		<b>85</b>	<b>85</b>	66-126	0	25
75-15-0	Carbon Disulfide	428	391	392		<b>91</b>	<b>92</b>	57-134	1	25
75-34-3	1,1-Dichloroethane	212	192	193		<b>91</b>	<b>91</b>	68-126	0	25
78-93-3	2-Butanone (MEK)	412	396	396		<b>96</b>	<b>96</b>	67-130	0	25
141-78-6	Ethyl Acetate	422	485	488		<b>115</b>	<b>116</b>	65-128	0.9	25
110-54-3	n-Hexane	212	184	184		<b>87</b>	<b>87</b>	63-120	0	25
67-66-3	Chloroform	214	185	185		<b>86</b>	<b>86</b>	68-123	0	25
109-99-9	Tetrahydrofuran (THF)	400	372	371		<b>93</b>	<b>93</b>	64-123	0	25
107-06-2	1,2-Dichloroethane	208	187	186		<b>90</b>	<b>89</b>	65-128	1	25
71-43-2	Benzene	204	185	185		<b>91</b>	<b>91</b>	69-119	0	25
56-23-5	Carbon Tetrachloride	210	171	171		<b>81</b>	<b>81</b>	68-132	0	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201020-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/20/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	377	378		91	91	70-117	0	25
75-27-4	Bromodichloromethane	210	190	191		90	91	72-128	1	25
79-01-6	Trichloroethene	206	176	176		85	85	71-123	0	25
123-91-1	1,4-Dioxane	208	199	199		96	96	71-122	0	25
142-82-5	n-Heptane	210	194	195		92	93	69-123	1	25
108-10-1	4-Methyl-2-pentanone	416	424	424		102	102	67-130	0	25
108-88-3	Toluene	206	175	175		85	85	66-119	0	25
591-78-6	2-Hexanone	404	404	404		100	100	62-128	0	25
124-48-1	Dibromochloromethane	210	187	186		89	89	70-130	0	25
106-93-4	1,2-Dibromoethane	208	186	186		89	89	74-122	0	25
127-18-4	Tetrachloroethene	206	167	167		81	81	66-124	0	25
100-41-4	Ethylbenzene	206	180	180		87	87	70-124	0	25
179601-23-1	m,p-Xylenes	412	354	354		86	86	61-134	0	25
75-25-2	Bromoform	208	187	188		90	90	66-139	0	25
100-42-5	Styrene	206	184	183		89	89	73-127	0	25
95-47-6	o-Xylene	206	179	179		87	87	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	206	175	176		85	85	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	204	175	175		86	86	66-132	0	25
120-82-1	1,2,4-Trichlorobenzene	388	314	314		81	81	55-142	0	25
91-20-3	Naphthalene	198	155	156		78	79	57-138	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201021-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS		LCS	DLCS	LCS	DLCS	Acceptance	RPD	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$			Limits	Limit	
115-07-1	Propene	210		170	174	81	83	57-136	2	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210		161	163	77	78	59-128	1	25
74-87-3	Chloromethane	206		160	173	78	84	59-132	7	25
75-01-4	Vinyl Chloride	208		171	175	82	84	64-127	2	25
106-99-0	1,3-Butadiene	210		185	187	88	89	66-134	1	25
75-00-3	Chloroethane	204		167	170	82	83	63-127	1	25
64-17-5	Ethanol	998		821	839	82	84	59-125	2	25
67-64-1	Acetone	1,030		764	775	74	75	58-128	1	25
75-69-4	Trichlorofluoromethane	204		156	156	76	76	62-126	0	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408		322	327	79	80	52-125	1	25
75-09-2	Methylene Chloride	208		168	170	81	82	62-115	1	25
76-13-1	Trichlorotrifluoroethane	214		163	164	76	77	66-126	1	25
75-15-0	Carbon Disulfide	428		336	338	79	79	57-134	0	25
75-34-3	1,1-Dichloroethane	212		172	173	81	82	68-126	1	25
78-93-3	2-Butanone (MEK)	412		349	351	85	85	67-130	0	25
141-78-6	Ethyl Acetate	422		349	351	83	83	65-128	0	25
110-54-3	n-Hexane	212		162	164	76	77	63-120	1	25
67-66-3	Chloroform	214		166	166	78	78	68-123	0	25
109-99-9	Tetrahydrofuran (THF)	400		338	342	85	86	64-123	1	25
107-06-2	1,2-Dichloroethane	208		167	169	80	81	65-128	1	25
71-43-2	Benzene	204		167	168	82	82	69-119	0	25
56-23-5	Carbon Tetrachloride	210		158	158	75	75	68-132	0	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
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## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005748  
 ALS Sample ID: P201021-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/21/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	336	338	81	81	70-117	0	25	
75-27-4	Bromodichloromethane	210	172	173	82	82	72-128	0	25	
79-01-6	Trichloroethene	206	162	163	79	79	71-123	0	25	
123-91-1	1,4-Dioxane	208	174	176	84	85	71-122	1	25	
142-82-5	n-Heptane	210	169	170	80	81	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	416	378	380	91	91	67-130	0	25	
108-88-3	Toluene	206	159	159	77	77	66-119	0	25	
591-78-6	2-Hexanone	404	370	371	92	92	62-128	0	25	
124-48-1	Dibromochloromethane	210	166	167	79	80	70-130	1	25	
106-93-4	1,2-Dibromoethane	208	169	169	81	81	74-122	0	25	
127-18-4	Tetrachloroethene	206	153	153	74	74	66-124	0	25	
100-41-4	Ethylbenzene	206	164	164	80	80	70-124	0	25	
179601-23-1	m,p-Xylenes	412	326	326	79	79	61-134	0	25	
75-25-2	Bromoform	208	172	172	83	83	66-139	0	25	
100-42-5	Styrene	206	170	170	83	83	73-127	0	25	
95-47-6	o-Xylene	206	163	164	79	80	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	206	163	163	79	79	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	204	163	164	80	80	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	388	343	348	88	90	55-142	2	25	
91-20-3	Naphthalene	198	187	191	94	96	57-138	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005748  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 10202033.D  
Analyst: Simon Cao Date Analyzed: 10/20/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 19:41  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	194944	9.15	832139	11.11	363897	15.45
<b>Upper Limit</b>	272922	9.48	1164995	11.44	509456	15.78
<b>Lower Limit</b>	116966	8.82	499283	10.78	218338	15.12

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
01	Method Blank	176413	9.13	748755 11.10 319341 15.45
02	Lab Control Sample	188230	9.16	802915 11.11 349174 15.45
03	Duplicate Lab Control Sample	188091	9.16	800255 11.11 348728 15.45
04	SV128-250-204	185037	9.13	809771 11.11 370431 15.45
05	SV128-250-204 (Dilution)	184377	9.13	798903 11.11 345313 15.45
06	SV128-350-204	184591	9.14	801271 11.11 375098 15.46
07	SV128-450-204	185354	9.13	801689 11.11 371790 15.45
08	SV128-450-204 (Dilution)	181425	9.13	781612 11.11 343477 15.45
09	SV128-025-204	171991	9.13	749604 11.10 321392 15.45
10	SV128-050-204	179028	9.14	760858 11.11 327984 15.45
11	SV128-150-204	175384	9.13	749658 11.10 321285 15.45
12	SV133-025-204	173095	9.14	738406 11.11 324107 15.45
13	SV128-050-204 (Dilution)	167974	9.13	723031 11.10 308142 15.45
14	SV128-150-204 (Dilution)	163033	9.13	703815 11.10 301731 15.45
15				
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005748  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 10212001.D  
Analyst: Simon Cao Date Analyzed: 10/21/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 18:14  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)						
	AREA	#	RT	#	AREA	#	RT	#			
<b>24 Hour Standard</b>	188587		9.16		802031		11.11		347959		15.45
<b>Upper Limit</b>	264022		9.49		1122843		11.44		487143		15.78
<b>Lower Limit</b>	113152		8.83		481219		10.78		208775		15.12

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)			
Client Sample ID		AREA	RT	AREA	RT	AREA	RT
01	Method Blank	166916	9.13	714733	11.10	302439	15.45
02	Lab Control Sample	186391	9.16	790606	11.11	343786	15.45
03	Duplicate Lab Control Sample	185444	9.15	786134	11.12	341886	15.45
04	SV133-050-204	172999	9.14	731538	11.11	314796	15.45
05	SV133-170-204	169792	9.14	728734	11.11	319435	15.45
06	SV133-250-204	171544	9.13	738897	11.10	318752	15.45
07	SV133-250-604	168092	9.13	725368	11.11	314588	15.45
08	SV133-350-204	170908	9.13	729156	11.11	315602	15.45
09	SV136-025-204	166440	9.13	721245	11.10	312943	15.45
10	SV136-050-204	168675	9.13	726461	11.11	313769	15.45
11	SV136-150-204	167972	9.13	721031	11.10	310785	15.45
12	SV136-250-204	169723	9.13	731506	11.11	314797	15.45
13	SV136-350-204	166704	9.13	717751	11.10	309478	15.45
14	SV136-450-204	170016	9.13	727826	11.10	309944	15.45
15	SV138-025-204	168704	9.13	718676	11.10	306643	15.45
16	SVTB204-01	166259	9.13	715891	11.10	304410	15.45
17	SV133-450-204	171751	9.13	732882	11.11	308231	15.45
18	SV133-250-604 (Dilution)	163128	9.13	703507	11.10	292210	15.45
19	SV136-250-204 (Dilution)	161228	9.13	698343	11.10	291466	15.45
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



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## LABORATORY REPORT

October 28, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 12, 2020. For your reference, these analyses have been assigned our service request number P2005749.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*Kate Kaneko*  
Oct 28, 2020, 4:27 pm

Kate Kaneko  
Project Manager

---

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[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2005749

## CASE NARRATIVE

The samples were received intact under chain of custody on October 12, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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[www.alsglobal.com](http://www.alsglobal.com)

## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

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RIGHT SOLUTIONS | RIGHT PARTNER

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2005749

Date Received: 10/12/2020  
 Time Received: 11:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SV138-050-204	P2005749-001	Air	10/6/2020	09:28	1SC01057	-2.59	8.63	X
SV138-150-204	P2005749-002	Air	10/6/2020	09:31	1SS00695	-2.63	7.91	X
SV138-150-604	P2005749-003	Air	10/6/2020	09:31	1SC01159	-2.65	8.59	X
SV138-250-204	P2005749-004	Air	10/6/2020	08:36	1SC00857	-2.34	7.90	X
SV138-350-204	P2005749-005	Air	10/6/2020	08:40	1SS00194	-2.97	7.62	X
SV138-450-204	P2005749-006	Air	10/6/2020	09:54	1SS00544	-2.65	7.15	X
SV141-025-204	P2005749-007	Air	10/6/2020	08:22	1SS00165	-2.12	7.27	X
SV141-050-204	P2005749-008	Air	10/6/2020	08:28	1SC00319	-1.99	8.33	X
SV141-170-204	P2005749-009	Air	10/6/2020	08:33	1SC00694	-1.94	8.10	X
SV141-250-204	P2005749-010	Air	10/6/2020	08:37	1SC00926	-2.64	7.39	X
SV141-350-204	P2005749-011	Air	10/6/2020	08:40	1SS00955	-4.04	8.05	X
SV141-450-204	P2005749-012	Air	10/6/2020	08:48	1SC01104	-2.83	7.15	X

**Air - Chain of Custody Record & Analytical Service Request**

COC #: **COC-SV204-11**

ALS Project No: **1005749**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270



Requested Turnaround Time in Business Days  
 10 Day-Standard

Company Name & Address (Reporting Information)		Project Name		Analysis Method		Comments e.g. Actual Preservative or specific instructions			
EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000		Kirtland AFB Bulk Fuels Facility		TO-15 Project Specific List					
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143		Project Number 62735DM02		ALS Contact: Kate Kaneko 1 (805) 577-2089		Project Requirements: QAPP			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>		P.O. # / Billing Information 17682		Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT					
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Camister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Camister Start Pressure "Hg	Camister End Pressure "Hg/psig	Sample Volume	Requirements: QAPP
SV138-050-204	1	10/6/2020	0928	1SC01057	NA	-25.0	-1.0	1L	None
SV138-150-204	2	10/6/2020	0931	1SS00695	NA	-26.0	-1.5	1L	None
SV138-150-604	3	10/6/2020	0931	1SC01159	NA	-26.0	-2.0	1L	None
SV138-250-204	4	10/6/2020	0936	1SC00857	NA	-24.5	0.0	1L	None
SV138-350-204	5	10/6/2020	0940	1SS00194	NA	-25.5	-2.5	1L	None
SV138-450-204	6	10/6/2020	0954	1SS00544	NA	-26.5	-1.5	1L	None
SV141-025-204	7	10/6/2020	0822	1SS00165	NA	-28.0	-1.0	1L	None
SV141-050-204	8	10/6/2020	0828	1SC00319	NA	-26.0	0.0	1L	None
SV141-170-204	9	10/6/2020	0833	1SC00694	NA	-25.0	0.0	1L	None
SV141-250-204	10	10/6/2020	0837	1SC00926	AVG05073	-22.0	-3.0	1L	None
SV141-350-204	11	10/6/2020	0840	1SS00955	NA	-27.0	-5.0	1L	None
SV141-450-204	12	10/6/2020	0848	1SC01104	NA	-25.5	-2.5	1L	None

Associated with Trip blank: SVTB204-01

FedEX Tracking Number: **1028 3402 2250**

Shipping information: Box number **6** of **4**

Report Tier Levels - please select  
 Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) \_\_\_\_\_ Date: **10/7/20** Time: **1500**  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) *R-d*  
 Received by: (Signature) \_\_\_\_\_ Date: **10-17-20** Time: **1100**

Project Requirements: QAPP  
 Cooler / Blank Temperature **NA** °C

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2005749  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/12/20 Date opened: 10/12/20 by: DENISE.POSADA

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |    |   | <u>Yes</u>                          | <u>No</u>                | <u>N/A</u>                          |
|----|---|-------------------------------------|--------------------------|-------------------------------------|
| 1  | Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2  | Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3  | Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4  | Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5  | Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6  | Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7  | Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8  | Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Location of seal(s)? _____ Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9  | Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Is there a client indication that the submitted samples are <b>pH</b> preserved?                              | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?     | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 | <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2005749-001.01	1.0 L Source Can					
P2005749-002.01	1.0 L Source Silonite Canister					
P2005749-003.01	1.0 L Source Can					
P2005749-004.01	1.0 L Source Can					
P2005749-005.01	1.0 L Source Silonite Canister					
P2005749-006.01	1.0 L Source Silonite Canister					
P2005749-007.01	1.0 L Source Silonite Canister					
P2005749-008.01	1.0 L Source Can					
P2005749-009.01	1.0 L Source Can					
P2005749-010.01	1.0 L Source Can					
P2005749-011.01	1.0 L Source Silonite Canister					
P2005749-012.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01057

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.59 Final Pressure (psig): 8.63

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.90	1.5	0.90	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.52</b>	0.51	0.31	0.085	
74-87-3	Chloromethane	0.75	1.2	0.75	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	U
75-00-3	Chloroethane	0.59	0.95	0.59	0.12	U
64-17-5	Ethanol	<b>1.2</b>	14	2.1	0.95	J
67-64-1	Acetone	<b>3.8</b>	11	5.5	2.4	J
75-69-4	Trichlorofluoromethane	<b>2.1</b>	0.44	0.27	0.070	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	<b>0.070</b>	0.33	0.11	0.048	J
75-15-0	Carbon Disulfide	<b>7.9</b>	1.6	0.84	0.25	
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	U
78-93-3	2-Butanone (MEK)	<b>0.50</b>	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.87	1.3	0.87	0.38	U, L
110-54-3	n-Hexane	<b>0.38</b>	0.71	0.44	0.15	J
67-66-3	Chloroform	<b>0.081</b>	0.52	0.17	0.070	J
109-99-9	Tetrahydrofuran (THF)	<b>0.13</b>	1.6	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	U
71-43-2	Benzene	<b>6.1</b>	0.79	0.26	0.12	
56-23-5	Carbon Tetrachloride	0.13	0.39	0.13	0.057	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01057

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.59 Final Pressure (psig): 8.63

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.28</b>	1.4	0.48	0.21	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	<b>U</b>
79-01-6	Trichloroethene	0.15	0.46	0.15	0.065	<b>U</b>
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.084	<b>U</b>
142-82-5	n-Heptane	0.38	0.61	0.38	0.10	<b>U</b>
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	<b>U</b>
108-88-3	Toluene	<b>2.6</b>	0.67	0.22	0.083	
591-78-6	2-Hexanone	0.20	1.2	0.20	0.078	<b>U</b>
124-48-1	Dibromochloromethane	0.096	0.29	0.096	0.040	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.38</b>	0.37	0.12	0.049	
100-41-4	Ethylbenzene	0.19	0.58	0.19	0.083	<b>U</b>
179601-23-1	m,p-Xylenes	0.38	1.1	0.38	0.16	<b>U</b>
75-25-2	Bromoform	0.15	0.25	0.15	0.051	<b>U</b>
100-42-5	Styrene	0.36	0.59	0.36	0.097	<b>U</b>
95-47-6	o-Xylene	0.19	0.59	0.19	0.086	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.17	0.52	0.17	0.076	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.17	0.51	0.17	0.073	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	<b>U</b>
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	<b>U</b>
1330-20-7	Xylenes, Total	0.38	1.1	0.38	0.16	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00695

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.63 Final Pressure (psig): 7.91

Container Dilution Factor: 1.87

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.87	1.4	0.87	0.35	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.2	0.49	0.30	0.082	
74-87-3	Chloromethane	0.72	1.2	0.72	0.19	U
75-01-4	Vinyl Chloride	0.31	0.97	0.31	0.10	U
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	U
75-00-3	Chloroethane	0.57	0.92	0.57	0.12	U
64-17-5	Ethanol	2.1	13	2.1	0.92	U
67-64-1	Acetone	5.3	10	5.3	2.4	U
75-69-4	Trichlorofluoromethane	3.6	0.42	0.27	0.067	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.42	U
75-09-2	Methylene Chloride	0.43	0.70	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	0.72	0.32	0.10	0.046	
75-15-0	Carbon Disulfide	2.9	1.5	0.81	0.24	
75-34-3	1,1-Dichloroethane	0.38	0.62	0.38	0.090	U
78-93-3	2-Butanone (MEK)	0.29	1.6	0.51	0.17	J
141-78-6	Ethyl Acetate	0.84	1.3	0.84	0.36	U, L
110-54-3	n-Hexane	0.42	0.69	0.42	0.15	U
67-66-3	Chloroform	4.1	0.51	0.16	0.068	
109-99-9	Tetrahydrofuran (THF)	0.46	1.6	0.27	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.60	0.20	0.068	U
71-43-2	Benzene	0.25	0.76	0.25	0.11	U
56-23-5	Carbon Tetrachloride	0.38	0.38	0.13	0.055	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00695

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.63 Final Pressure (psig): 7.91

Container Dilution Factor: 1.87

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.46	1.4	0.46	0.20	U
75-27-4	Bromodichloromethane	<b>0.71</b>	0.36	0.12	0.054	
79-01-6	Trichloroethene	<b>0.40</b>	0.44	0.15	0.063	J
123-91-1	1,4-Dioxane	0.22	0.67	0.22	0.082	U
142-82-5	n-Heptane	0.37	0.59	0.37	0.097	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.083	U
108-88-3	Toluene	0.21	0.65	0.21	0.081	U
591-78-6	2-Hexanone	0.19	1.1	0.19	0.075	U
124-48-1	Dibromochloromethane	<b>0.059</b>	0.29	0.093	0.038	J
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	U
127-18-4	Tetrachloroethene	<b>0.18</b>	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	0.18	0.56	0.18	0.081	U
179601-23-1	m,p-Xylenes	0.37	1.1	0.37	0.15	U
75-25-2	Bromoform	0.14	0.24	0.14	0.050	U
100-42-5	Styrene	0.35	0.57	0.35	0.094	U
95-47-6	o-Xylene	0.18	0.57	0.18	0.083	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.50	0.16	0.073	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.49	0.16	0.070	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.082	U
91-20-3	Naphthalene	0.28	0.46	0.28	0.12	U
1330-20-7	Xylenes, Total	0.37	1.1	0.37	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-150-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01159

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 8.59

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.90	1.5	0.90	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.3	0.51	0.31	0.085	
74-87-3	Chloromethane	0.75	1.2	0.75	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	U
75-00-3	Chloroethane	0.59	0.95	0.59	0.12	U
64-17-5	Ethanol	1.7	14	2.1	0.95	J
67-64-1	Acetone	5.8	11	5.5	2.4	J
75-69-4	Trichlorofluoromethane	3.6	0.44	0.27	0.070	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	0.72	0.33	0.11	0.048	
75-15-0	Carbon Disulfide	8.9	1.6	0.84	0.25	
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	U
78-93-3	2-Butanone (MEK)	1.3	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.87	1.3	0.87	0.38	U, L
110-54-3	n-Hexane	0.44	0.71	0.44	0.15	U
67-66-3	Chloroform	4.2	0.52	0.17	0.070	
109-99-9	Tetrahydrofuran (THF)	1.6	1.6	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	U
71-43-2	Benzene	0.26	0.79	0.26	0.12	U
56-23-5	Carbon Tetrachloride	0.38	0.39	0.13	0.057	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-150-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01159

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 8.59

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.48	1.4	0.48	0.21	U
75-27-4	Bromodichloromethane	<b>0.71</b>	0.37	0.12	0.055	
79-01-6	Trichloroethene	<b>0.39</b>	0.46	0.15	0.065	J
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.084	U
142-82-5	n-Heptane	0.38	0.61	0.38	0.10	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	<b>0.54</b>	0.67	0.22	0.083	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.078	U
124-48-1	Dibromochloromethane	<b>0.059</b>	0.29	0.096	0.040	J
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.18</b>	0.37	0.12	0.049	J
100-41-4	Ethylbenzene	0.19	0.58	0.19	0.083	U
179601-23-1	m,p-Xylenes	0.38	1.1	0.38	0.16	U
75-25-2	Bromoform	0.15	0.25	0.15	0.051	U
100-42-5	Styrene	0.36	0.59	0.36	0.097	U
95-47-6	o-Xylene	0.19	0.59	0.19	0.086	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.52	0.17	0.076	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.51	0.17	0.073	U
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	U
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	U
1330-20-7	Xylenes, Total	0.38	1.1	0.38	0.16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00857

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.34 Final Pressure (psig): 7.90

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.3	1.4	0.85	0.35	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.43	0.48	0.30	0.081	J
74-87-3	Chloromethane	0.40	1.2	0.71	0.19	J
75-01-4	Vinyl Chloride	0.30	0.95	0.30	0.10	U
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	0.15	0.90	0.56	0.11	J
64-17-5	Ethanol	5.3	13	2.0	0.90	J
67-64-1	Acetone	16	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	0.19	0.42	0.26	0.066	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	1.9	1.2	0.41	J
75-09-2	Methylene Chloride	0.42	0.69	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	0.051	0.32	0.10	0.045	J
75-15-0	Carbon Disulfide	10	1.5	0.79	0.24	
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	2.6	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	1.8	1.3	0.83	0.36	L
110-54-3	n-Hexane	0.28	0.68	0.42	0.14	J
67-66-3	Chloroform	0.16	0.50	0.16	0.067	U
109-99-9	Tetrahydrofuran (THF)	0.27	1.6	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	0.21	0.74	0.24	0.11	J
56-23-5	Carbon Tetrachloride	0.12	0.37	0.12	0.054	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00857

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.34 Final Pressure (psig): 7.90

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	U
79-01-6	Trichloroethene	<b>0.14</b>	0.43	0.14	0.061	J
123-91-1	1,4-Dioxane	0.22	0.66	0.22	0.080	U
142-82-5	n-Heptane	0.36	0.58	0.36	0.095	U
108-10-1	4-Methyl-2-pentanone	<b>0.085</b>	1.1	0.19	0.082	J
108-88-3	Toluene	<b>0.80</b>	0.63	0.21	0.079	J
591-78-6	2-Hexanone	<b>0.29</b>	1.1	0.19	0.074	J
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	0.11	0.35	0.11	0.047	U
100-41-4	Ethylbenzene	0.18	0.55	0.18	0.079	U
179601-23-1	m,p-Xylenes	<b>0.19</b>	1.1	0.36	0.15	J
75-25-2	Bromoform	0.14	0.23	0.14	0.049	U
100-42-5	Styrene	0.34	0.56	0.34	0.092	U
95-47-6	o-Xylene	0.18	0.56	0.18	0.081	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.072	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.48	0.16	0.069	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.080	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	<b>0.19</b>	1.1	0.36	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00194

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.97 Final Pressure (psig): 7.62

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.46	1.4	0.88	0.36	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.60	0.50	0.31	0.084	
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	0.99	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.94	0.58	0.12	U
64-17-5	Ethanol	3.4	13	2.1	0.93	J
67-64-1	Acetone	5.5	10	5.4	2.4	J
75-69-4	Trichlorofluoromethane	0.84	0.43	0.27	0.068	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.43	U
75-09-2	Methylene Chloride	0.21	0.71	0.44	0.21	J
76-13-1	Trichlorotrifluoroethane	0.57	0.33	0.11	0.047	
75-15-0	Carbon Disulfide	21	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	0.092	0.63	0.39	0.092	J
78-93-3	2-Butanone (MEK)	1.2	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U, L
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	18	0.52	0.17	0.069	
109-99-9	Tetrahydrofuran (THF)	0.18	1.6	0.27	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.069	U
71-43-2	Benzene	0.30	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	0.50	0.39	0.13	0.056	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV138-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-005

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00194

Initial Pressure (psig): -2.97 Final Pressure (psig): 7.62

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	<b>2.8</b>	0.37	0.12	0.055	
79-01-6	Trichloroethene	<b>1.3</b>	0.45	0.15	0.064	
123-91-1	1,4-Dioxane	0.22	0.69	0.22	0.083	U
142-82-5	n-Heptane	0.37	0.60	0.37	0.099	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	U
108-88-3	Toluene	<b>0.083</b>	0.66	0.21	0.082	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	U
124-48-1	Dibromochloromethane	<b>0.29</b>	0.29	0.095	0.039	J
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.038	U
127-18-4	Tetrachloroethene	<b>0.081</b>	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	0.37	1.1	0.37	0.15	U
75-25-2	Bromoform	0.15	0.24	0.15	0.051	U
100-42-5	Styrene	0.36	0.58	0.36	0.096	U
95-47-6	o-Xylene	0.19	0.58	0.19	0.084	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.50	0.16	0.072	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	0.37	1.1	0.37	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00544

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 7.15

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.97	1.4	0.84	0.34	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.45	0.48	0.29	0.080	J
74-87-3	Chloromethane	1.0	1.1	0.70	0.19	J
75-01-4	Vinyl Chloride	0.12	0.94	0.30	0.10	J
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	U
75-00-3	Chloroethane	0.55	0.89	0.55	0.11	U
64-17-5	Ethanol	1.7	13	2.0	0.89	J
67-64-1	Acetone	7.7	9.9	5.1	2.3	J
75-69-4	Trichlorofluoromethane	1.1	0.41	0.26	0.065	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.8	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	0.067	0.31	0.10	0.045	J
75-15-0	Carbon Disulfide	10	1.5	0.78	0.23	J
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.087	U
78-93-3	2-Butanone (MEK)	0.49	1.5	0.49	0.17	U
141-78-6	Ethyl Acetate	0.82	1.3	0.82	0.35	U, L
110-54-3	n-Hexane	0.17	0.67	0.41	0.14	J
67-66-3	Chloroform	0.13	0.49	0.16	0.066	J
109-99-9	Tetrahydrofuran (THF)	0.26	1.5	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	U
71-43-2	Benzene	0.24	0.74	0.24	0.11	U
56-23-5	Carbon Tetrachloride	0.12	0.37	0.12	0.053	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00544

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 7.15

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	0.11	0.35	0.11	0.052	U
79-01-6	Trichloroethene	<b>0.083</b>	0.43	0.14	0.061	J
123-91-1	1,4-Dioxane	0.21	0.65	0.21	0.079	U
142-82-5	n-Heptane	0.35	0.57	0.35	0.094	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.081	U
108-88-3	Toluene	<b>0.094</b>	0.62	0.20	0.078	J
591-78-6	2-Hexanone	<b>0.076</b>	1.1	0.19	0.073	J
124-48-1	Dibromochloromethane	0.090	0.28	0.090	0.037	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.056</b>	0.35	0.11	0.046	J
100-41-4	Ethylbenzene	0.18	0.54	0.18	0.078	U
179601-23-1	m,p-Xylenes	0.35	1.0	0.35	0.15	U
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.091	U
95-47-6	o-Xylene	0.18	0.55	0.18	0.080	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.071	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.48	0.16	0.068	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.079	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	0.35	1.0	0.35	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00165

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.12 Final Pressure (psig): 7.27

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.51	1.3	0.81	0.33	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.5	0.46	0.28	0.077	
74-87-3	Chloromethane	0.68	1.1	0.68	0.18	U
75-01-4	Vinyl Chloride	0.29	0.91	0.29	0.098	U
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	U
75-00-3	Chloroethane	0.53	0.86	0.53	0.11	U
64-17-5	Ethanol	1.4	12	1.9	0.86	J
67-64-1	Acetone	3.0	9.6	5.0	2.2	J
75-69-4	Trichlorofluoromethane	1.2	0.40	0.25	0.063	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	U
75-09-2	Methylene Chloride	0.40	0.66	0.40	0.19	U
76-13-1	Trichlorotrifluoroethane	0.075	0.30	0.097	0.043	J
75-15-0	Carbon Disulfide	5.6	1.4	0.76	0.22	
75-34-3	1,1-Dichloroethane	0.36	0.58	0.36	0.084	U
78-93-3	2-Butanone (MEK)	0.47	1.5	0.47	0.16	U
141-78-6	Ethyl Acetate	4.3	1.2	0.79	0.34	L
110-54-3	n-Hexane	0.44	0.65	0.40	0.14	J
67-66-3	Chloroform	0.59	0.48	0.15	0.064	
109-99-9	Tetrahydrofuran (THF)	0.14	1.5	0.25	0.099	J
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.064	U
71-43-2	Benzene	0.42	0.71	0.23	0.11	J
56-23-5	Carbon Tetrachloride	0.12	0.35	0.12	0.051	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-025-204

ALS Project ID: P2005749

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005749-007

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00165

Initial Pressure (psig): -2.12 Final Pressure (psig): 7.27

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.43	1.3	0.43	0.19	U
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.050	U
79-01-6	Trichloroethene	0.14	0.42	0.14	0.059	U
123-91-1	1,4-Dioxane	<b>0.098</b>	0.63	0.21	0.077	J
142-82-5	n-Heptane	<b>0.29</b>	0.56	0.34	0.091	J
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.078	U
108-88-3	Toluene	<b>0.39</b>	0.60	0.20	0.075	J
591-78-6	2-Hexanone	0.18	1.1	0.18	0.071	U
124-48-1	Dibromochloromethane	0.087	0.27	0.087	0.036	U
106-93-4	1,2-Dibromoethane	0.097	0.30	0.097	0.035	U
127-18-4	Tetrachloroethene	<b>0.094</b>	0.34	0.11	0.045	J
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.076	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	<b>0.13</b>	0.22	0.14	0.047	J
100-42-5	Styrene	0.33	0.53	0.33	0.088	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.078	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.47	0.15	0.069	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.46	0.15	0.066	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.59	0.19	0.077	U
91-20-3	Naphthalene	0.26	0.43	0.26	0.11	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00319

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.99 Final Pressure (psig): 8.33

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.57	1.4	0.84	0.34	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3.2	0.48	0.29	0.080	
74-87-3	Chloromethane	0.38	1.1	0.70	0.19	J
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	U
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	U
75-00-3	Chloroethane	0.55	0.89	0.55	0.11	U
64-17-5	Ethanol	2.5	13	2.0	0.89	J
67-64-1	Acetone	15	9.9	5.1	2.3	
75-69-4	Trichlorofluoromethane	2.6	0.41	0.26	0.065	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.8	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	0.093	0.31	0.10	0.045	J
75-15-0	Carbon Disulfide	1.5	1.5	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.087	U
78-93-3	2-Butanone (MEK)	2.9	1.5	0.49	0.17	
141-78-6	Ethyl Acetate	0.82	1.3	0.82	0.35	U, L
110-54-3	n-Hexane	0.41	0.67	0.41	0.14	U
67-66-3	Chloroform	1.1	0.49	0.16	0.066	
109-99-9	Tetrahydrofuran (THF)	0.26	1.5	0.26	0.10	U
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	U
71-43-2	Benzene	0.13	0.74	0.24	0.11	J
56-23-5	Carbon Tetrachloride	0.10	0.37	0.12	0.053	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV141-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-008

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00319

Initial Pressure (psig): -1.99 Final Pressure (psig): 8.33

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	<b>0.078</b>	0.35	0.11	0.052	J
79-01-6	Trichloroethene	0.14	0.43	0.14	0.061	U
123-91-1	1,4-Dioxane	0.21	0.65	0.21	0.079	U
142-82-5	n-Heptane	0.35	0.57	0.35	0.094	U
108-10-1	4-Methyl-2-pentanone	<b>0.12</b>	1.1	0.19	0.081	J
108-88-3	Toluene	<b>0.46</b>	0.62	0.20	0.078	J
591-78-6	2-Hexanone	<b>0.45</b>	1.1	0.19	0.073	J
124-48-1	Dibromochloromethane	0.090	0.28	0.090	0.037	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.19</b>	0.35	0.11	0.046	J
100-41-4	Ethylbenzene	0.18	0.54	0.18	0.078	U
179601-23-1	m,p-Xylenes	0.35	1.0	0.35	0.15	U
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.091	U
95-47-6	o-Xylene	0.18	0.55	0.18	0.080	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.071	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.48	0.16	0.068	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.079	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	0.35	1.0	0.35	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00694

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.94 Final Pressure (psig): 8.10

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.83	1.4	0.83	0.34	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>3.8</b>	0.47	0.29	0.079	
74-87-3	Chloromethane	0.69	1.1	0.69	0.19	U
75-01-4	Vinyl Chloride	0.30	0.93	0.30	0.10	U
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	U
75-00-3	Chloroethane	0.54	0.88	0.54	0.11	U
64-17-5	Ethanol	<b>1.5</b>	13	2.0	0.88	J
67-64-1	Acetone	<b>9.1</b>	9.8	5.1	2.3	J
75-69-4	Trichlorofluoromethane	<b>3.8</b>	0.41	0.25	0.065	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.40	U
75-09-2	Methylene Chloride	0.41	0.67	0.41	0.19	U
76-13-1	Trichlorotrifluoroethane	<b>0.11</b>	0.31	0.099	0.044	J
75-15-0	Carbon Disulfide	<b>7.0</b>	1.4	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.086	U
78-93-3	2-Butanone (MEK)	<b>1.5</b>	1.5	0.49	0.17	J
141-78-6	Ethyl Acetate	0.81	1.2	0.81	0.35	U, L
110-54-3	n-Hexane	0.41	0.66	0.41	0.14	U
67-66-3	Chloroform	<b>3.6</b>	0.49	0.16	0.065	
109-99-9	Tetrahydrofuran (THF)	<b>1.2</b>	1.5	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.065	U
71-43-2	Benzene	0.24	0.73	0.24	0.11	U
56-23-5	Carbon Tetrachloride	<b>0.16</b>	0.36	0.12	0.053	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00694

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.94 Final Pressure (psig): 8.10

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.44	1.3	0.44	0.20	U
75-27-4	Bromodichloromethane	<b>0.39</b>	0.35	0.11	0.051	
79-01-6	Trichloroethene	0.14	0.42	0.14	0.060	U
123-91-1	1,4-Dioxane	0.21	0.65	0.21	0.078	U
142-82-5	n-Heptane	0.35	0.57	0.35	0.093	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.080	U
108-88-3	Toluene	0.20	0.62	0.20	0.077	U
591-78-6	2-Hexanone	<b>0.24</b>	1.1	0.19	0.072	J
124-48-1	Dibromochloromethane	0.089	0.27	0.089	0.037	U
106-93-4	1,2-Dibromoethane	0.099	0.30	0.099	0.036	U
127-18-4	Tetrachloroethene	<b>0.24</b>	0.34	0.11	0.046	J
100-41-4	Ethylbenzene	0.18	0.54	0.18	0.077	U
179601-23-1	m,p-Xylenes	0.35	1.0	0.35	0.14	U
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.090	U
95-47-6	o-Xylene	0.18	0.55	0.18	0.079	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.48	0.15	0.070	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.47	0.15	0.067	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.60	0.19	0.078	U
91-20-3	Naphthalene	0.26	0.44	0.26	0.11	U
1330-20-7	Xylenes, Total	0.35	1.0	0.35	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-010

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00926

Initial Pressure (psig): -2.64 Final Pressure (psig): 7.39

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.9	1.4	0.85	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.48	0.30	0.081	
74-87-3	Chloromethane	0.24	1.2	0.71	0.19	J
75-01-4	Vinyl Chloride	0.30	0.95	0.30	0.10	U
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	0.56	0.90	0.56	0.11	U
64-17-5	Ethanol	24	13	2.0	0.90	
67-64-1	Acetone	12	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	3.7	0.42	0.26	0.066	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.1	1.9	1.2	0.41	
75-09-2	Methylene Chloride	0.60	0.69	0.42	0.20	J
76-13-1	Trichlorotrifluoroethane	0.11	0.32	0.10	0.045	J
75-15-0	Carbon Disulfide	4.3	1.5	0.79	0.24	
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	2.5	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	120	1.3	0.83	0.36	L
110-54-3	n-Hexane	0.47	0.68	0.42	0.14	J
67-66-3	Chloroform	3.9	0.50	0.16	0.067	
109-99-9	Tetrahydrofuran (THF)	4.5	1.6	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	0.52	0.74	0.24	0.11	J
56-23-5	Carbon Tetrachloride	0.16	0.37	0.12	0.054	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00926

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.64 Final Pressure (psig): 7.39

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.34	1.3	0.45	0.20	J
75-27-4	Bromodichloromethane	0.35	0.36	0.12	0.053	J
79-01-6	Trichloroethene	0.12	0.43	0.14	0.061	J
123-91-1	1,4-Dioxane	0.22	0.66	0.22	0.080	U
142-82-5	n-Heptane	0.52	0.58	0.36	0.095	J
108-10-1	4-Methyl-2-pentanone	0.29	1.1	0.19	0.082	J
108-88-3	Toluene	6.5	0.63	0.21	0.079	J
591-78-6	2-Hexanone	0.37	1.1	0.19	0.074	J
124-48-1	Dibromochloromethane	0.060	0.28	0.091	0.038	J
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	0.14	0.35	0.11	0.047	J
100-41-4	Ethylbenzene	0.20	0.55	0.18	0.079	J
179601-23-1	m,p-Xylenes	0.62	1.1	0.36	0.15	J
75-25-2	Bromoform	0.14	0.23	0.14	0.049	U
100-42-5	Styrene	0.28	0.56	0.34	0.092	J
95-47-6	o-Xylene	0.28	0.56	0.18	0.081	J
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.072	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.48	0.16	0.069	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.080	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	0.91	1.1	0.36	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00955

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.04 Final Pressure (psig): 8.05

Container Dilution Factor: 2.13

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.99	1.6	0.99	0.40	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	0.56	0.34	0.094	
74-87-3	Chloromethane	0.83	1.3	0.83	0.22	U
75-01-4	Vinyl Chloride	0.35	1.1	0.35	0.12	U
106-99-0	1,3-Butadiene	0.77	1.3	0.77	0.21	U
75-00-3	Chloroethane	0.65	1.0	0.65	0.13	U
64-17-5	Ethanol	2.3	15	2.3	1.0	U
67-64-1	Acetone	6.1	12	6.1	2.7	U
75-69-4	Trichlorofluoromethane	1.6	0.48	0.30	0.077	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.48	U
75-09-2	Methylene Chloride	0.49	0.80	0.49	0.23	U
76-13-1	Trichlorotrifluoroethane	0.12	0.37	0.12	0.053	U
75-15-0	Carbon Disulfide	3.0	1.7	0.92	0.27	
75-34-3	1,1-Dichloroethane	0.43	0.71	0.43	0.10	U
78-93-3	2-Butanone (MEK)	0.36	1.8	0.58	0.20	J
141-78-6	Ethyl Acetate	3.1	1.5	0.96	0.41	L
110-54-3	n-Hexane	0.48	0.79	0.48	0.17	U
67-66-3	Chloroform	1.7	0.58	0.19	0.077	
109-99-9	Tetrahydrofuran (THF)	3.0	1.8	0.31	0.12	
107-06-2	1,2-Dichloroethane	0.22	0.68	0.22	0.078	U
71-43-2	Benzene	0.28	0.87	0.28	0.13	U
56-23-5	Carbon Tetrachloride	0.11	0.43	0.14	0.063	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00955

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.04 Final Pressure (psig): 8.05

Container Dilution Factor: 2.13

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.53	1.5	0.53	0.23	U
75-27-4	Bromodichloromethane	<b>0.27</b>	0.41	0.14	0.061	J
79-01-6	Trichloroethene	0.17	0.51	0.17	0.071	U
123-91-1	1,4-Dioxane	0.25	0.77	0.25	0.093	U
142-82-5	n-Heptane	0.42	0.68	0.42	0.11	U
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.095	U
108-88-3	Toluene	<b>0.12</b>	0.74	0.24	0.092	J
591-78-6	2-Hexanone	0.22	1.3	0.22	0.086	U
124-48-1	Dibromochloromethane	0.11	0.33	0.11	0.044	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	U
127-18-4	Tetrachloroethene	0.13	0.41	0.13	0.054	U
100-41-4	Ethylbenzene	0.21	0.64	0.21	0.092	U
179601-23-1	m,p-Xylenes	0.42	1.2	0.42	0.17	U
75-25-2	Bromoform	0.16	0.27	0.16	0.057	U
100-42-5	Styrene	0.40	0.65	0.40	0.11	U
95-47-6	o-Xylene	0.21	0.65	0.21	0.094	U
108-67-8	1,3,5-Trimethylbenzene	0.18	0.57	0.18	0.083	U
95-63-6	1,2,4-Trimethylbenzene	0.18	0.56	0.18	0.080	U
120-82-1	1,2,4-Trichlorobenzene	0.23	0.72	0.23	0.093	U
91-20-3	Naphthalene	0.32	0.53	0.32	0.13	U
1330-20-7	Xylenes, Total	0.42	1.2	0.42	0.17	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01104

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.83 Final Pressure (psig): 7.15

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.0	1.4	0.86	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	0.48	0.30	0.081	
74-87-3	Chloromethane	12	1.2	0.71	0.19	
75-01-4	Vinyl Chloride	3.6	0.95	0.31	0.10	
106-99-0	1,3-Butadiene	0.26	1.1	0.67	0.18	J
75-00-3	Chloroethane	2.8	0.91	0.56	0.12	
64-17-5	Ethanol	0.98	13	2.0	0.90	J
67-64-1	Acetone	14	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	1.2	0.42	0.26	0.066	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.69	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	0.10	0.32	0.10	0.046	U
75-15-0	Carbon Disulfide	31	1.5	0.80	0.24	
75-34-3	1,1-Dichloroethane	1.5	0.61	0.38	0.089	
78-93-3	2-Butanone (MEK)	3.3	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	U, L
110-54-3	n-Hexane	0.42	0.68	0.42	0.14	U
67-66-3	Chloroform	0.63	0.50	0.16	0.067	
109-99-9	Tetrahydrofuran (THF)	59	1.6	0.27	0.10	
107-06-2	1,2-Dichloroethane	0.63	0.59	0.19	0.067	
71-43-2	Benzene	0.41	0.75	0.24	0.11	J
56-23-5	Carbon Tetrachloride	0.11	0.37	0.12	0.054	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01104

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.83 Final Pressure (psig): 7.15

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	U
79-01-6	Trichloroethene	<b>0.17</b>	0.44	0.15	0.062	J
123-91-1	1,4-Dioxane	<b>0.21</b>	0.66	0.22	0.080	J
142-82-5	n-Heptane	<b>0.19</b>	0.58	0.36	0.095	J
108-10-1	4-Methyl-2-pentanone	<b>1.3</b>	1.1	0.19	0.082	
108-88-3	Toluene	<b>0.17</b>	0.63	0.21	0.079	J
591-78-6	2-Hexanone	<b>0.078</b>	1.1	0.19	0.074	J
124-48-1	Dibromochloromethane	0.092	0.28	0.092	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.069</b>	0.35	0.12	0.047	J
100-41-4	Ethylbenzene	0.18	0.55	0.18	0.079	U
179601-23-1	m,p-Xylenes	0.36	1.1	0.36	0.15	U
75-25-2	Bromoform	0.14	0.24	0.14	0.049	U
100-42-5	Styrene	0.35	0.56	0.35	0.093	U
95-47-6	o-Xylene	0.18	0.56	0.18	0.082	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.50	0.16	0.072	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.49	0.16	0.069	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.081	U
91-20-3	Naphthalene	0.27	0.46	0.27	0.11	U
1330-20-7	Xylenes, Total	0.36	1.1	0.36	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749  
 ALS Sample ID: P201025-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U, L
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749  
 ALS Sample ID: P201025-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date(s) Collected: 10/6/20

Analyst: Simon Cao/Topacio De Leon

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 10/25/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201025-MB	98	102	103	70-130	
Lab Control Sample	P201025-LCS	100	98	101	70-130	
Duplicate Lab Control Sample	P201025-DLCS	99	98	101	70-130	
SV138-050-204	P2005749-001	101	102	103	70-130	
SV138-150-204	P2005749-002	100	102	105	70-130	
SV138-150-604	P2005749-003	100	102	106	70-130	
SV138-250-204	P2005749-004	100	101	105	70-130	
SV138-350-204	P2005749-005	99	101	104	70-130	
SV138-450-204	P2005749-006	100	101	105	70-130	
SV141-025-204	P2005749-007	99	101	104	70-130	
SV141-050-204	P2005749-008	98	101	106	70-130	
SV141-170-204	P2005749-009	99	102	106	70-130	
SV141-250-204	P2005749-010	100	101	105	70-130	
SV141-350-204	P2005749-011	99	102	105	70-130	
SV141-450-204	P2005749-012	98	102	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749  
 ALS Sample ID: P201025-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
115-07-1	Propene	122	108	108	<b>89</b>	<b>89</b>	57-136	0	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	39.5	39.5	<b>93</b>	<b>93</b>	59-128	0	25	
74-87-3	Chloromethane	99.8	111	110	<b>111</b>	<b>110</b>	59-132	0.9	25	
75-01-4	Vinyl Chloride	81.4	81.7	80.9	<b>100</b>	<b>99</b>	64-127	1	25	
106-99-0	1,3-Butadiene	95.0	102	102	<b>107</b>	<b>107</b>	66-134	0	25	
75-00-3	Chloroethane	77.3	75.8	74.5	<b>98</b>	<b>96</b>	63-127	2	25	
64-17-5	Ethanol	530	482	481	<b>91</b>	<b>91</b>	59-125	0	25	
67-64-1	Acetone	435	393	387	<b>90</b>	<b>89</b>	58-128	1	25	
75-69-4	Trichlorofluoromethane	36.3	34.1	34.0	<b>94</b>	<b>94</b>	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	169	167	<b>102</b>	<b>101</b>	52-125	1	25	
75-09-2	Methylene Chloride	59.9	58.8	58.1	<b>98</b>	<b>97</b>	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	27.9	26.5	26.3	<b>95</b>	<b>94</b>	66-126	1	25	
75-15-0	Carbon Disulfide	137	136	133	<b>99</b>	<b>97</b>	57-134	2	25	
75-34-3	1,1-Dichloroethane	52.4	50.9	49.9	<b>97</b>	<b>95</b>	68-126	2	25	
78-93-3	2-Butanone (MEK)	140	145	143	<b>104</b>	<b>102</b>	67-130	2	25	
141-78-6	Ethyl Acetate	117	155	153	<b>132</b>	<b>131</b>	65-128	0.8	25	<b>L</b>
110-54-3	n-Hexane	60.2	56.0	55.2	<b>93</b>	<b>92</b>	63-120	1	25	
67-66-3	Chloroform	43.8	41.6	41.0	<b>95</b>	<b>94</b>	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	136	136	131	<b>100</b>	<b>96</b>	64-123	4	25	
107-06-2	1,2-Dichloroethane	51.4	50.9	50.1	<b>99</b>	<b>97</b>	65-128	2	25	
71-43-2	Benzene	63.9	62.5	61.8	<b>98</b>	<b>97</b>	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	30.9	30.5	<b>93</b>	<b>91</b>	68-132	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749  
 ALS Sample ID: P201025-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD	
		ppbV	ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	
110-82-7	Cyclohexane	121	119	117		98	97	70-117	1	25
75-27-4	Bromodichloromethane	31.4	31.2	30.7		99	98	72-128	1	25
79-01-6	Trichloroethene	38.3	36.5	35.9		95	94	71-123	1	25
123-91-1	1,4-Dioxane	57.7	61.0	59.7		106	103	71-122	3	25
142-82-5	n-Heptane	51.3	50.5	50.0		98	97	69-123	1	25
108-10-1	4-Methyl-2-pentanone	102	113	112		111	110	67-130	0.9	25
108-88-3	Toluene	54.7	51.2	50.4		94	92	66-119	2	25
591-78-6	2-Hexanone	98.7	112	110		113	111	62-128	2	25
124-48-1	Dibromochloromethane	24.7	25.0	24.5		101	99	70-130	2	25
106-93-4	1,2-Dibromoethane	27.1	27.5	27.1		101	100	74-122	1	25
127-18-4	Tetrachloroethene	30.4	28.2	27.8		93	91	66-124	2	25
100-41-4	Ethylbenzene	47.4	45.9	45.3		97	96	70-124	1	25
179601-23-1	m,p-Xylenes	94.9	90.9	90.2		96	95	61-134	1	25
75-25-2	Bromoform	20.1	20.9	20.7		104	103	66-139	1	25
100-42-5	Styrene	48.4	50.0	49.5		103	102	73-127	1	25
95-47-6	o-Xylene	47.4	45.6	45.2		96	95	67-125	1	25
108-67-8	1,3,5-Trimethylbenzene	41.9	40.4	40.0		96	95	67-130	1	25
95-63-6	1,2,4-Trimethylbenzene	41.5	40.7	40.3		98	97	66-132	1	25
120-82-1	1,2,4-Trichlorobenzene	52.3	52.7	53.6		101	102	55-142	1	25
91-20-3	Naphthalene	37.8	39.1	39.9		103	106	57-138	3	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005749  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Method Blank Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 10252003.D  
Analyst: Topacio De Leon Date Analyzed: 10/25/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 04:41  
Test Notes:

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P201025-LCS	10252004.D	05:15
Duplicate Lab Control Sample	P201025-DLCS	10252005.D	05:48
SV138-050-204	P2005749-001	10252006.D	10:53
SV138-150-204	P2005749-002	10252007.D	11:27
SV138-150-604	P2005749-003	10252008.D	12:01
SV138-250-204	P2005749-004	10252009.D	13:11
SV138-350-204	P2005749-005	10252010.D	13:45
SV138-450-204	P2005749-006	10252011.D	14:18
SV141-025-204	P2005749-007	10252012.D	14:52
SV141-050-204	P2005749-008	10252013.D	15:26
SV141-170-204	P2005749-009	10252014.D	16:00
SV141-250-204	P2005749-010	10252015.D	16:34
SV141-350-204	P2005749-011	10252016.D	17:07
SV141-450-204	P2005749-012	10252017.D	17:41

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005749  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 10252001.D  
Analyst: Topacio De Leon Date Analyzed: 10/25/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 03:33  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	156699	9.16	669040	11.11	286503	15.45
<b>Upper Limit</b>	219379	9.49	936656	11.44	401104	15.78
<b>Lower Limit</b>	94019	8.83	401424	10.78	171902	15.12

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
		AREA #	RT #	AREA #
01	Method Blank	139946	9.12	601310
02	Lab Control Sample	148110	9.16	633911
03	Duplicate Lab Control Sample	152333	9.16	648130
04	SV138-050-204	147582	9.13	643209
05	SV138-150-204	140280	9.13	605828
06	SV138-150-604	138649	9.13	603068
07	SV138-250-204	150205	9.13	644368
08	SV138-350-204	140504	9.13	604788
09	SV138-450-204	142137	9.13	610315
10	SV141-025-204	142748	9.13	613260
11	SV141-050-204	144065	9.13	614945
12	SV141-170-204	144398	9.13	620023
13	SV141-250-204	141955	9.14	612537
14	SV141-350-204	141732	9.13	611207
15	SV141-450-204	142957	9.14	611449
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01057

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.59 Final Pressure (psig): 8.63

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.63	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	2.5	1.5	0.42	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	2.3	26	4.0	1.8	J
67-64-1	Acetone	9.1	25	13	5.8	J
75-69-4	Trichlorofluoromethane	12	2.5	1.5	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	0.54	2.6	0.82	0.37	J
75-15-0	Carbon Disulfide	25	4.8	2.6	0.77	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	1.5	4.8	1.5	0.53	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.4	U, L
110-54-3	n-Hexane	1.3	2.5	1.5	0.53	J
67-66-3	Chloroform	0.40	2.6	0.82	0.34	J
109-99-9	Tetrahydrofuran (THF)	0.39	4.8	0.82	0.32	J
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	19	2.5	0.82	0.37	
56-23-5	Carbon Tetrachloride	0.82	2.5	0.82	0.36	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-001

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01057

Initial Pressure (psig): -2.59 Final Pressure (psig): 8.63

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>0.96</b>	4.8	1.6	0.72	<b>J</b>
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	<b>U</b>
79-01-6	Trichloroethene	0.82	2.5	0.82	0.35	<b>U</b>
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.30	<b>U</b>
142-82-5	n-Heptane	1.5	2.5	1.5	0.41	<b>U</b>
108-10-1	4-Methyl-2-pentanone	0.82	4.8	0.82	0.35	<b>U</b>
108-88-3	Toluene	<b>9.9</b>	2.5	0.82	0.31	<b>U</b>
591-78-6	2-Hexanone	0.82	4.8	0.82	0.32	<b>U</b>
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	<b>U</b>
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	<b>U</b>
127-18-4	Tetrachloroethene	<b>2.6</b>	2.5	0.82	0.33	<b>U</b>
100-41-4	Ethylbenzene	0.82	2.5	0.82	0.36	<b>U</b>
179601-23-1	m,p-Xylenes	1.6	4.8	1.6	0.68	<b>U</b>
75-25-2	Bromoform	1.5	2.6	1.5	0.53	<b>U</b>
100-42-5	Styrene	1.5	2.5	1.5	0.41	<b>U</b>
95-47-6	o-Xylene	0.82	2.6	0.82	0.37	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.82	2.6	0.82	0.37	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.82	2.5	0.82	0.36	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.63	<b>U</b>
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	<b>U</b>
1330-20-7	Xylenes, Total	1.6	4.8	1.6	0.68	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00695

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.63 Final Pressure (psig): 7.91

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.61	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>6.2</b>	2.4	1.5	0.41	
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	0.79	2.5	0.79	0.27	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	3.9	25	3.9	1.7	U
67-64-1	Acetone	13	24	13	5.6	U
75-69-4	Trichlorofluoromethane	<b>20</b>	2.4	1.5	0.38	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.7	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.70	U
76-13-1	Trichlorotrifluoroethane	<b>5.5</b>	2.5	0.79	0.36	
75-15-0	Carbon Disulfide	<b>8.9</b>	4.7	2.5	0.75	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	<b>0.86</b>	4.7	1.5	0.51	J
141-78-6	Ethyl Acetate	3.0	4.7	3.0	1.3	U, L
110-54-3	n-Hexane	1.5	2.4	1.5	0.51	U
67-66-3	Chloroform	<b>20</b>	2.5	0.79	0.33	
109-99-9	Tetrahydrofuran (THF)	<b>1.3</b>	4.7	0.79	0.31	J
107-06-2	1,2-Dichloroethane	0.79	2.4	0.79	0.28	U
71-43-2	Benzene	0.79	2.4	0.79	0.36	U
56-23-5	Carbon Tetrachloride	<b>2.4</b>	2.4	0.79	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00695

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.63 Final Pressure (psig): 7.91

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.7	1.6	0.70	U
75-27-4	Bromodichloromethane	4.7	2.4	0.79	0.36	
79-01-6	Trichloroethene	2.2	2.4	0.79	0.34	J
123-91-1	1,4-Dioxane	0.79	2.4	0.79	0.29	U
142-82-5	n-Heptane	1.5	2.4	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	0.79	4.7	0.79	0.34	U
108-88-3	Toluene	0.79	2.4	0.79	0.30	U
591-78-6	2-Hexanone	0.79	4.7	0.79	0.31	U
124-48-1	Dibromochloromethane	0.50	2.4	0.79	0.33	J
106-93-4	1,2-Dibromoethane	0.79	2.4	0.79	0.29	U
127-18-4	Tetrachloroethene	1.2	2.4	0.79	0.32	J
100-41-4	Ethylbenzene	0.79	2.4	0.79	0.35	U
179601-23-1	m,p-Xylenes	1.6	4.7	1.6	0.65	U
75-25-2	Bromoform	1.5	2.5	1.5	0.51	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	0.79	2.5	0.79	0.36	U
108-67-8	1,3,5-Trimethylbenzene	0.79	2.5	0.79	0.36	U
95-63-6	1,2,4-Trimethylbenzene	0.79	2.4	0.79	0.35	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.61	U
1330-20-7	Xylenes, Total	1.6	4.7	1.6	0.65	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-150-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01159

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 8.59

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.63	U
75-71-8	Dichlorodifluoromethane (CFC 12)	6.2	2.5	1.5	0.42	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	3.1	26	4.0	1.8	J
67-64-1	Acetone	14	25	13	5.8	J
75-69-4	Trichlorofluoromethane	20	2.5	1.5	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	5.5	2.6	0.82	0.37	
75-15-0	Carbon Disulfide	28	4.8	2.6	0.77	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	3.9	4.8	1.5	0.53	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.4	U, L
110-54-3	n-Hexane	1.5	2.5	1.5	0.53	U
67-66-3	Chloroform	20	2.6	0.82	0.34	
109-99-9	Tetrahydrofuran (THF)	4.8	4.8	0.82	0.32	J
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	0.82	2.5	0.82	0.37	U
56-23-5	Carbon Tetrachloride	2.4	2.5	0.82	0.36	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-150-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01159

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 8.59

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.72	U
75-27-4	Bromodichloromethane	4.8	2.5	0.82	0.37	
79-01-6	Trichloroethene	2.1	2.5	0.82	0.35	J
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.41	U
108-10-1	4-Methyl-2-pentanone	0.82	4.8	0.82	0.35	U
108-88-3	Toluene	2.1	2.5	0.82	0.31	J
591-78-6	2-Hexanone	0.82	4.8	0.82	0.32	U
124-48-1	Dibromochloromethane	0.50	2.5	0.82	0.34	J
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	1.2	2.5	0.82	0.33	J
100-41-4	Ethylbenzene	0.82	2.5	0.82	0.36	U
179601-23-1	m,p-Xylenes	1.6	4.8	1.6	0.68	U
75-25-2	Bromoform	1.5	2.6	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.82	2.6	0.82	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.82	2.6	0.82	0.37	U
95-63-6	1,2,4-Trimethylbenzene	0.82	2.5	0.82	0.36	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.63	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	U
1330-20-7	Xylenes, Total	1.6	4.8	1.6	0.68	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00857

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.34 Final Pressure (psig): 7.90

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.2	2.4	1.5	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	2.4	1.5	0.40	J
74-87-3	Chloromethane	0.83	2.4	1.5	0.39	J
75-01-4	Vinyl Chloride	0.78	2.4	0.78	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	0.38	2.4	1.5	0.30	J
64-17-5	Ethanol	10	24	3.8	1.7	J
67-64-1	Acetone	37	24	12	5.5	
75-69-4	Trichlorofluoromethane	1.1	2.3	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.5	4.6	2.9	1.0	J
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	0.39	2.4	0.78	0.35	J
75-15-0	Carbon Disulfide	32	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	7.6	4.6	1.5	0.50	
141-78-6	Ethyl Acetate	6.4	4.6	3.0	1.3	L
110-54-3	n-Hexane	1.0	2.4	1.5	0.50	J
67-66-3	Chloroform	0.78	2.4	0.78	0.32	U
109-99-9	Tetrahydrofuran (THF)	0.80	4.6	0.78	0.31	J
107-06-2	1,2-Dichloroethane	0.78	2.4	0.78	0.27	U
71-43-2	Benzene	0.68	2.4	0.78	0.35	J
56-23-5	Carbon Tetrachloride	0.78	2.3	0.78	0.34	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-004

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00857

Initial Pressure (psig): -2.34 Final Pressure (psig): 7.90

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.6	1.6	0.69	U
75-27-4	Bromodichloromethane	0.78	2.4	0.78	0.35	U
79-01-6	Trichloroethene	<b>0.74</b>	2.3	0.78	0.33	J
123-91-1	1,4-Dioxane	0.78	2.4	0.78	0.29	U
142-82-5	n-Heptane	1.5	2.4	1.5	0.39	U
108-10-1	4-Methyl-2-pentanone	<b>0.35</b>	4.6	0.78	0.33	J
108-88-3	Toluene	<b>3.0</b>	2.4	0.78	0.30	J
591-78-6	2-Hexanone	<b>1.2</b>	4.6	0.78	0.30	J
124-48-1	Dibromochloromethane	0.78	2.4	0.78	0.32	U
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.28	U
127-18-4	Tetrachloroethene	0.78	2.4	0.78	0.32	U
100-41-4	Ethylbenzene	0.78	2.4	0.78	0.34	U
179601-23-1	m,p-Xylenes	<b>0.81</b>	4.6	1.6	0.64	J
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	0.78	2.4	0.78	0.35	U
108-67-8	1,3,5-Trimethylbenzene	0.78	2.4	0.78	0.35	U
95-63-6	1,2,4-Trimethylbenzene	0.78	2.4	0.78	0.34	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	<b>0.81</b>	4.6	1.6	0.64	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00194

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.97 Final Pressure (psig): 7.62

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.79	2.5	1.5	0.62	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	2.5	1.5	0.41	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.81	2.5	0.81	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.31	U
64-17-5	Ethanol	6.4	25	3.9	1.8	J
67-64-1	Acetone	13	25	13	5.7	J
75-69-4	Trichlorofluoromethane	4.7	2.4	1.5	0.38	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.0	U
75-09-2	Methylene Chloride	0.74	2.5	1.5	0.71	J
76-13-1	Trichlorotrifluoroethane	4.4	2.5	0.81	0.36	
75-15-0	Carbon Disulfide	66	4.8	2.6	0.76	
75-34-3	1,1-Dichloroethane	0.37	2.6	1.6	0.37	J
78-93-3	2-Butanone (MEK)	3.6	4.8	1.5	0.52	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U, L
110-54-3	n-Hexane	1.5	2.5	1.5	0.52	U
67-66-3	Chloroform	89	2.5	0.81	0.34	
109-99-9	Tetrahydrofuran (THF)	0.53	4.8	0.81	0.32	J
107-06-2	1,2-Dichloroethane	0.81	2.5	0.81	0.28	U
71-43-2	Benzene	0.95	2.5	0.81	0.37	J
56-23-5	Carbon Tetrachloride	3.1	2.4	0.81	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00194

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.97 Final Pressure (psig): 7.62

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.71	U
75-27-4	Bromodichloromethane	<b>19</b>	2.5	0.81	0.37	
79-01-6	Trichloroethene	<b>7.1</b>	2.4	0.81	0.34	
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	U
108-88-3	Toluene	<b>0.31</b>	2.5	0.81	0.31	J
591-78-6	2-Hexanone	0.81	4.8	0.81	0.31	U
124-48-1	Dibromochloromethane	<b>2.4</b>	2.5	0.81	0.33	J
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.29	U
127-18-4	Tetrachloroethene	<b>0.55</b>	2.5	0.81	0.33	J
100-41-4	Ethylbenzene	0.81	2.5	0.81	0.36	U
179601-23-1	m,p-Xylenes	1.6	4.8	1.6	0.67	U
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.81	2.5	0.81	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.81	2.5	0.81	0.37	U
95-63-6	1,2,4-Trimethylbenzene	0.81	2.5	0.81	0.35	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	1.6	4.8	1.6	0.67	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00544

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 7.15

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.4	1.4	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	2.4	1.4	0.39	J
74-87-3	Chloromethane	2.1	2.4	1.4	0.39	J
75-01-4	Vinyl Chloride	0.30	2.4	0.77	0.26	J
106-99-0	1,3-Butadiene	1.4	2.4	1.4	0.40	U
75-00-3	Chloroethane	1.4	2.4	1.4	0.30	U
64-17-5	Ethanol	3.3	24	3.8	1.7	J
67-64-1	Acetone	18	24	12	5.4	J
75-69-4	Trichlorofluoromethane	6.4	2.3	1.4	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.5	2.9	1.0	U
75-09-2	Methylene Chloride	1.4	2.4	1.4	0.68	U
76-13-1	Trichlorotrifluoroethane	0.52	2.4	0.77	0.34	J
75-15-0	Carbon Disulfide	31	4.5	2.4	0.72	J
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	1.4	4.5	1.4	0.50	U
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	U, L
110-54-3	n-Hexane	0.60	2.4	1.4	0.50	J
67-66-3	Chloroform	0.64	2.4	0.77	0.32	J
109-99-9	Tetrahydrofuran (THF)	0.76	4.5	0.77	0.30	J
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	0.77	2.4	0.77	0.35	U
56-23-5	Carbon Tetrachloride	0.77	2.3	0.77	0.33	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV138-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00544

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 7.15

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.68	U
75-27-4	Bromodichloromethane	0.77	2.4	0.77	0.35	U
79-01-6	Trichloroethene	<b>0.44</b>	2.3	0.77	0.33	J
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	1.4	2.4	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	0.77	4.5	0.77	0.33	U
108-88-3	Toluene	<b>0.35</b>	2.4	0.77	0.29	J
591-78-6	2-Hexanone	<b>0.31</b>	4.5	0.77	0.30	J
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	<b>0.38</b>	2.4	0.77	0.31	J
100-41-4	Ethylbenzene	0.77	2.4	0.77	0.34	U
179601-23-1	m,p-Xylenes	1.5	4.5	1.5	0.63	U
75-25-2	Bromoform	1.4	2.4	1.4	0.50	U
100-42-5	Styrene	1.4	2.4	1.4	0.39	U
95-47-6	o-Xylene	0.77	2.4	0.77	0.35	U
108-67-8	1,3,5-Trimethylbenzene	0.77	2.4	0.77	0.35	U
95-63-6	1,2,4-Trimethylbenzene	0.77	2.4	0.77	0.33	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	1.5	4.5	1.5	0.63	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00165

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.12 Final Pressure (psig): 7.27

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.88	2.3	1.4	0.57	J
75-71-8	Dichlorodifluoromethane (CFC 12)	7.6	2.3	1.4	0.38	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	U
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	U
64-17-5	Ethanol	2.6	23	3.6	1.6	J
67-64-1	Acetone	7.1	23	12	5.3	J
75-69-4	Trichlorofluoromethane	7.0	2.2	1.4	0.35	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.4	2.8	0.96	U
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.66	U
76-13-1	Trichlorotrifluoroethane	0.58	2.3	0.74	0.33	J
75-15-0	Carbon Disulfide	17	4.4	2.4	0.70	
75-34-3	1,1-Dichloroethane	1.4	2.4	1.4	0.34	U
78-93-3	2-Butanone (MEK)	1.4	4.4	1.4	0.48	U
141-78-6	Ethyl Acetate	16	4.4	2.8	1.2	L
110-54-3	n-Hexane	1.5	2.3	1.4	0.48	J
67-66-3	Chloroform	2.9	2.3	0.74	0.31	
109-99-9	Tetrahydrofuran (THF)	0.41	4.4	0.74	0.29	J
107-06-2	1,2-Dichloroethane	0.74	2.3	0.74	0.26	U
71-43-2	Benzene	1.3	2.3	0.74	0.34	J
56-23-5	Carbon Tetrachloride	0.74	2.2	0.74	0.32	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00165

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.12 Final Pressure (psig): 7.27

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.4	1.5	0.66	U
75-27-4	Bromodichloromethane	0.74	2.3	0.74	0.34	U
79-01-6	Trichloroethene	0.74	2.2	0.74	0.32	U
123-91-1	1,4-Dioxane	0.35	2.3	0.74	0.28	J
142-82-5	n-Heptane	1.2	2.3	1.4	0.37	J
108-10-1	4-Methyl-2-pentanone	0.74	4.4	0.74	0.32	U
108-88-3	Toluene	1.5	2.3	0.74	0.28	J
591-78-6	2-Hexanone	0.74	4.4	0.74	0.29	U
124-48-1	Dibromochloromethane	0.74	2.3	0.74	0.31	U
106-93-4	1,2-Dibromoethane	0.74	2.3	0.74	0.27	U
127-18-4	Tetrachloroethene	0.64	2.3	0.74	0.30	J
100-41-4	Ethylbenzene	0.74	2.3	0.74	0.33	U
179601-23-1	m,p-Xylenes	1.5	4.4	1.5	0.61	U
75-25-2	Bromoform	1.3	2.3	1.4	0.48	J
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	0.74	2.3	0.74	0.34	U
108-67-8	1,3,5-Trimethylbenzene	0.74	2.3	0.74	0.34	U
95-63-6	1,2,4-Trimethylbenzene	0.74	2.3	0.74	0.32	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.57	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.57	U
1330-20-7	Xylenes, Total	1.5	4.4	1.5	0.61	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00319

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.99 Final Pressure (psig): 8.33

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.98	2.4	1.4	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	16	2.4	1.4	0.39	
74-87-3	Chloromethane	0.79	2.4	1.4	0.39	J
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	U
106-99-0	1,3-Butadiene	1.4	2.4	1.4	0.40	U
75-00-3	Chloroethane	1.4	2.4	1.4	0.30	U
64-17-5	Ethanol	4.7	24	3.8	1.7	J
67-64-1	Acetone	37	24	12	5.4	
75-69-4	Trichlorofluoromethane	14	2.3	1.4	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.5	2.9	1.0	U
75-09-2	Methylene Chloride	1.4	2.4	1.4	0.68	U
76-13-1	Trichlorotrifluoroethane	0.71	2.4	0.77	0.34	J
75-15-0	Carbon Disulfide	4.7	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	8.7	4.5	1.4	0.50	
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	U, L
110-54-3	n-Hexane	1.4	2.4	1.4	0.50	U
67-66-3	Chloroform	5.2	2.4	0.77	0.32	
109-99-9	Tetrahydrofuran (THF)	0.77	4.5	0.77	0.30	U
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	0.40	2.4	0.77	0.35	J
56-23-5	Carbon Tetrachloride	0.64	2.3	0.77	0.33	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00319

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.99 Final Pressure (psig): 8.33

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.68	U
75-27-4	Bromodichloromethane	<b>0.52</b>	2.4	0.77	0.35	J
79-01-6	Trichloroethene	0.77	2.3	0.77	0.33	U
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	1.4	2.4	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	<b>0.51</b>	4.5	0.77	0.33	J
108-88-3	Toluene	<b>1.7</b>	2.4	0.77	0.29	J
591-78-6	2-Hexanone	<b>1.8</b>	4.5	0.77	0.30	J
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	<b>1.3</b>	2.4	0.77	0.31	J
100-41-4	Ethylbenzene	0.77	2.4	0.77	0.34	U
179601-23-1	m,p-Xylenes	1.5	4.5	1.5	0.63	U
75-25-2	Bromoform	1.4	2.4	1.4	0.50	U
100-42-5	Styrene	1.4	2.4	1.4	0.39	U
95-47-6	o-Xylene	0.77	2.4	0.77	0.35	U
108-67-8	1,3,5-Trimethylbenzene	0.77	2.4	0.77	0.35	U
95-63-6	1,2,4-Trimethylbenzene	0.77	2.4	0.77	0.33	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	1.5	4.5	1.5	0.63	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00694

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.94 Final Pressure (psig): 8.10

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.3	1.4	0.58	U
75-71-8	Dichlorodifluoromethane (CFC 12)	19	2.3	1.4	0.39	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	U
75-01-4	Vinyl Chloride	0.76	2.4	0.76	0.26	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.30	U
64-17-5	Ethanol	2.7	24	3.7	1.7	J
67-64-1	Acetone	22	23	12	5.4	J
75-69-4	Trichlorofluoromethane	22	2.3	1.4	0.36	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.5	2.8	0.98	U
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.67	U
76-13-1	Trichlorotrifluoroethane	0.82	2.4	0.76	0.34	J
75-15-0	Carbon Disulfide	22	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	4.4	4.5	1.4	0.49	J
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	U, L
110-54-3	n-Hexane	1.4	2.3	1.4	0.49	U
67-66-3	Chloroform	18	2.4	0.76	0.32	
109-99-9	Tetrahydrofuran (THF)	3.6	4.5	0.76	0.30	J
107-06-2	1,2-Dichloroethane	0.76	2.3	0.76	0.26	U
71-43-2	Benzene	0.76	2.3	0.76	0.34	U
56-23-5	Carbon Tetrachloride	1.0	2.3	0.76	0.33	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00694

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.94 Final Pressure (psig): 8.10

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.67	U
75-27-4	Bromodichloromethane	<b>2.6</b>	2.3	0.76	0.34	
79-01-6	Trichloroethene	0.76	2.3	0.76	0.32	U
123-91-1	1,4-Dioxane	0.76	2.3	0.76	0.28	U
142-82-5	n-Heptane	1.4	2.3	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	0.76	4.5	0.76	0.33	U
108-88-3	Toluene	0.76	2.3	0.76	0.29	U
591-78-6	2-Hexanone	<b>0.97</b>	4.5	0.76	0.30	J
124-48-1	Dibromochloromethane	0.76	2.3	0.76	0.31	U
106-93-4	1,2-Dibromoethane	0.76	2.3	0.76	0.28	U
127-18-4	Tetrachloroethene	<b>1.6</b>	2.3	0.76	0.31	J
100-41-4	Ethylbenzene	0.76	2.3	0.76	0.34	U
179601-23-1	m,p-Xylenes	1.5	4.5	1.5	0.63	U
75-25-2	Bromoform	1.4	2.4	1.4	0.49	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	0.76	2.4	0.76	0.34	U
108-67-8	1,3,5-Trimethylbenzene	0.76	2.4	0.76	0.34	U
95-63-6	1,2,4-Trimethylbenzene	0.76	2.3	0.76	0.33	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.58	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.58	U
1330-20-7	Xylenes, Total	1.5	4.5	1.5	0.63	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00926

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.64 Final Pressure (psig): 7.39

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	5.1	2.4	1.5	0.59	
75-71-8	Dichlorodifluoromethane (CFC 12)	11	2.4	1.5	0.40	
74-87-3	Chloromethane	0.49	2.4	1.5	0.39	J
75-01-4	Vinyl Chloride	0.78	2.4	0.78	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	45	24	3.8	1.7	
67-64-1	Acetone	29	24	12	5.5	
75-69-4	Trichlorofluoromethane	21	2.3	1.5	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	13	4.6	2.9	1.0	
75-09-2	Methylene Chloride	2.1	2.4	1.5	0.69	J
76-13-1	Trichlorotrifluoroethane	0.82	2.4	0.78	0.35	J
75-15-0	Carbon Disulfide	13	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	7.4	4.6	1.5	0.50	
141-78-6	Ethyl Acetate	440	4.6	3.0	1.3	L
110-54-3	n-Hexane	1.7	2.4	1.5	0.50	J
67-66-3	Chloroform	19	2.4	0.78	0.32	
109-99-9	Tetrahydrofuran (THF)	13	4.6	0.78	0.31	
107-06-2	1,2-Dichloroethane	0.78	2.4	0.78	0.27	U
71-43-2	Benzene	1.7	2.4	0.78	0.35	J
56-23-5	Carbon Tetrachloride	1.0	2.3	0.78	0.34	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00926

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.64 Final Pressure (psig): 7.39

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.2	4.6	1.6	0.69	J
75-27-4	Bromodichloromethane	2.3	2.4	0.78	0.35	J
79-01-6	Trichloroethene	0.66	2.3	0.78	0.33	J
123-91-1	1,4-Dioxane	0.78	2.4	0.78	0.29	U
142-82-5	n-Heptane	2.1	2.4	1.5	0.39	J
108-10-1	4-Methyl-2-pentanone	1.2	4.6	0.78	0.33	J
108-88-3	Toluene	24	2.4	0.78	0.30	J
591-78-6	2-Hexanone	1.5	4.6	0.78	0.30	J
124-48-1	Dibromochloromethane	0.51	2.4	0.78	0.32	J
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.28	U
127-18-4	Tetrachloroethene	0.97	2.4	0.78	0.32	J
100-41-4	Ethylbenzene	0.86	2.4	0.78	0.34	J
179601-23-1	m,p-Xylenes	2.7	4.6	1.6	0.64	J
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.2	2.4	1.5	0.39	J
95-47-6	o-Xylene	1.2	2.4	0.78	0.35	J
108-67-8	1,3,5-Trimethylbenzene	0.78	2.4	0.78	0.35	U
95-63-6	1,2,4-Trimethylbenzene	0.78	2.4	0.78	0.34	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	3.9	4.6	1.6	0.64	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00955

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.04 Final Pressure (psig): 8.05

Container Dilution Factor: 2.13

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.8	1.7	0.69	U
75-71-8	Dichlorodifluoromethane (CFC 12)	5.1	2.8	1.7	0.46	
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	U
75-01-4	Vinyl Chloride	0.91	2.8	0.91	0.30	U
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	U
64-17-5	Ethanol	4.4	28	4.4	2.0	U
67-64-1	Acetone	14	28	14	6.4	U
75-69-4	Trichlorofluoromethane	8.9	2.7	1.7	0.43	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.4	5.3	3.4	1.2	U
75-09-2	Methylene Chloride	1.7	2.8	1.7	0.80	U
76-13-1	Trichlorotrifluoroethane	0.91	2.8	0.91	0.40	U
75-15-0	Carbon Disulfide	9.3	5.3	2.9	0.85	
75-34-3	1,1-Dichloroethane	1.8	2.9	1.8	0.42	U
78-93-3	2-Butanone (MEK)	1.1	5.3	1.7	0.59	J
141-78-6	Ethyl Acetate	11	5.3	3.5	1.5	L
110-54-3	n-Hexane	1.7	2.8	1.7	0.59	U
67-66-3	Chloroform	8.4	2.8	0.91	0.38	
109-99-9	Tetrahydrofuran (THF)	8.8	5.3	0.91	0.36	
107-06-2	1,2-Dichloroethane	0.91	2.8	0.91	0.31	U
71-43-2	Benzene	0.91	2.8	0.91	0.41	U
56-23-5	Carbon Tetrachloride	0.66	2.7	0.91	0.39	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00955

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.04 Final Pressure (psig): 8.05

Container Dilution Factor: 2.13

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.8	5.3	1.8	0.80	U
75-27-4	Bromodichloromethane	<b>1.8</b>	2.8	0.91	0.41	J
79-01-6	Trichloroethene	0.91	2.7	0.91	0.38	U
123-91-1	1,4-Dioxane	0.91	2.8	0.91	0.34	U
142-82-5	n-Heptane	1.7	2.8	1.7	0.45	U
108-10-1	4-Methyl-2-pentanone	0.91	5.3	0.91	0.39	U
108-88-3	Toluene	<b>0.46</b>	2.8	0.91	0.35	J
591-78-6	2-Hexanone	0.91	5.3	0.91	0.35	U
124-48-1	Dibromochloromethane	0.91	2.8	0.91	0.37	U
106-93-4	1,2-Dibromoethane	0.91	2.8	0.91	0.33	U
127-18-4	Tetrachloroethene	0.91	2.8	0.91	0.37	U
100-41-4	Ethylbenzene	0.91	2.8	0.91	0.40	U
179601-23-1	m,p-Xylenes	1.8	5.3	1.8	0.75	U
75-25-2	Bromoform	1.7	2.8	1.7	0.59	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	0.91	2.8	0.91	0.41	U
108-67-8	1,3,5-Trimethylbenzene	0.91	2.8	0.91	0.41	U
95-63-6	1,2,4-Trimethylbenzene	0.91	2.8	0.91	0.39	U
120-82-1	1,2,4-Trichlorobenzene	1.7	5.3	1.7	0.69	U
91-20-3	Naphthalene	1.7	2.8	1.7	0.69	U
1330-20-7	Xylenes, Total	1.8	5.3	1.8	0.75	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

ALS Sample ID: P2005749-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01104

Date Collected: 10/6/20

Date Received: 10/12/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.83 Final Pressure (psig): 7.15

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.5	2.4	1.5	0.60	
75-71-8	Dichlorodifluoromethane (CFC 12)	5.1	2.4	1.5	0.40	
74-87-3	Chloromethane	25	2.4	1.5	0.40	
75-01-4	Vinyl Chloride	9.1	2.4	0.78	0.26	
106-99-0	1,3-Butadiene	0.58	2.4	1.5	0.40	J
75-00-3	Chloroethane	7.3	2.4	1.5	0.30	
64-17-5	Ethanol	1.8	24	3.8	1.7	J
67-64-1	Acetone	34	24	12	5.5	
75-69-4	Trichlorofluoromethane	6.8	2.3	1.5	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	0.78	2.4	0.78	0.35	U
75-15-0	Carbon Disulfide	95	4.6	2.5	0.74	
75-34-3	1,1-Dichloroethane	6.0	2.5	1.5	0.36	
78-93-3	2-Butanone (MEK)	9.8	4.6	1.5	0.51	
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U, L
110-54-3	n-Hexane	1.5	2.4	1.5	0.51	U
67-66-3	Chloroform	3.1	2.4	0.78	0.33	
109-99-9	Tetrahydrofuran (THF)	170	4.6	0.78	0.31	
107-06-2	1,2-Dichloroethane	2.6	2.4	0.78	0.27	
71-43-2	Benzene	1.3	2.4	0.78	0.35	J
56-23-5	Carbon Tetrachloride	0.67	2.3	0.78	0.34	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV141-450-204

ALS Project ID: P2005749

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005749-012

Test Code: EPA TO-15

Date Collected: 10/6/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/12/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01104

Initial Pressure (psig): -2.83 Final Pressure (psig): 7.15

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.6	1.6	0.69	U
75-27-4	Bromodichloromethane	0.78	2.4	0.78	0.35	U
79-01-6	Trichloroethene	<b>0.94</b>	2.3	0.78	0.33	J
123-91-1	1,4-Dioxane	<b>0.76</b>	2.4	0.78	0.29	J
142-82-5	n-Heptane	<b>0.77</b>	2.4	1.5	0.39	J
108-10-1	4-Methyl-2-pentanone	<b>5.3</b>	4.6	0.78	0.34	
108-88-3	Toluene	<b>0.65</b>	2.4	0.78	0.30	J
591-78-6	2-Hexanone	<b>0.32</b>	4.6	0.78	0.30	J
124-48-1	Dibromochloromethane	0.78	2.4	0.78	0.32	U
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.29	U
127-18-4	Tetrachloroethene	<b>0.46</b>	2.4	0.78	0.32	J
100-41-4	Ethylbenzene	0.78	2.4	0.78	0.35	U
179601-23-1	m,p-Xylenes	1.6	4.6	1.6	0.64	U
75-25-2	Bromoform	1.5	2.4	1.5	0.51	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	0.78	2.4	0.78	0.35	U
108-67-8	1,3,5-Trimethylbenzene	0.78	2.4	0.78	0.35	U
95-63-6	1,2,4-Trimethylbenzene	0.78	2.4	0.78	0.34	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.60	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.60	U
1330-20-7	Xylenes, Total	1.6	4.6	1.6	0.64	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749  
 ALS Sample ID: P201025-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U, L
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749  
 ALS Sample ID: P201025-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date(s) Collected: 10/6/20

Analyst: Simon Cao/Topacio De Leon

Date(s) Received: 10/12/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 10/25/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201025-MB	99	102	103	70-130	
Lab Control Sample	P201025-LCS	100	97	101	70-130	
Duplicate Lab Control Sample	P201025-DLCS	100	98	101	70-130	
SV138-050-204	P2005749-001	101	101	103	70-130	
SV138-150-204	P2005749-002	100	102	105	70-130	
SV138-150-604	P2005749-003	101	102	106	70-130	
SV138-250-204	P2005749-004	100	101	105	70-130	
SV138-350-204	P2005749-005	99	101	104	70-130	
SV138-450-204	P2005749-006	100	101	105	70-130	
SV141-025-204	P2005749-007	100	101	104	70-130	
SV141-050-204	P2005749-008	99	100	106	70-130	
SV141-170-204	P2005749-009	99	102	106	70-130	
SV141-250-204	P2005749-010	100	101	105	70-130	
SV141-350-204	P2005749-011	100	101	105	70-130	
SV141-450-204	P2005749-012	99	102	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749  
 ALS Sample ID: P201025-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier	
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD		RPD
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$			Limits	Limit		
115-07-1	Propene	210	186	187		<b>89</b>	<b>89</b>	57-136	0	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	195	195		<b>93</b>	<b>93</b>	59-128	0	25	
74-87-3	Chloromethane	206	230	228		<b>112</b>	<b>111</b>	59-132	0.9	25	
75-01-4	Vinyl Chloride	208	209	207		<b>100</b>	<b>100</b>	64-127	0	25	
106-99-0	1,3-Butadiene	210	225	225		<b>107</b>	<b>107</b>	66-134	0	25	
75-00-3	Chloroethane	204	200	196		<b>98</b>	<b>96</b>	63-127	2	25	
64-17-5	Ethanol	998	908	907		<b>91</b>	<b>91</b>	59-125	0	25	
67-64-1	Acetone	1,030	933	918		<b>91</b>	<b>89</b>	58-128	2	25	
75-69-4	Trichlorofluoromethane	204	192	191		<b>94</b>	<b>94</b>	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	416	410		<b>102</b>	<b>100</b>	52-125	2	25	
75-09-2	Methylene Chloride	208	204	202		<b>98</b>	<b>97</b>	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	214	203	201		<b>95</b>	<b>94</b>	66-126	1	25	
75-15-0	Carbon Disulfide	428	422	415		<b>99</b>	<b>97</b>	57-134	2	25	
75-34-3	1,1-Dichloroethane	212	206	202		<b>97</b>	<b>95</b>	68-126	2	25	
78-93-3	2-Butanone (MEK)	412	429	420		<b>104</b>	<b>102</b>	67-130	2	25	
141-78-6	Ethyl Acetate	422	559	550		<b>132</b>	<b>130</b>	65-128	2	25	<b>L</b>
110-54-3	n-Hexane	212	197	194		<b>93</b>	<b>92</b>	63-120	1	25	
67-66-3	Chloroform	214	203	200		<b>95</b>	<b>93</b>	68-123	2	25	
109-99-9	Tetrahydrofuran (THF)	400	401	387		<b>100</b>	<b>97</b>	64-123	3	25	
107-06-2	1,2-Dichloroethane	208	206	203		<b>99</b>	<b>98</b>	65-128	1	25	
71-43-2	Benzene	204	200	197		<b>98</b>	<b>97</b>	69-119	1	25	
56-23-5	Carbon Tetrachloride	210	194	192		<b>92</b>	<b>91</b>	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.  
 L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005749  
 ALS Sample ID: P201025-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	409	402		<b>98</b>	<b>97</b>	70-117	1	25
75-27-4	Bromodichloromethane	210	209	206		<b>100</b>	<b>98</b>	72-128	2	25
79-01-6	Trichloroethene	206	196	193		<b>95</b>	<b>94</b>	71-123	1	25
123-91-1	1,4-Dioxane	208	220	215		<b>106</b>	<b>103</b>	71-122	3	25
142-82-5	n-Heptane	210	207	205		<b>99</b>	<b>98</b>	69-123	1	25
108-10-1	4-Methyl-2-pentanone	416	465	459		<b>112</b>	<b>110</b>	67-130	2	25
108-88-3	Toluene	206	193	190		<b>94</b>	<b>92</b>	66-119	2	25
591-78-6	2-Hexanone	404	458	451		<b>113</b>	<b>112</b>	62-128	0.9	25
124-48-1	Dibromochloromethane	210	213	209		<b>101</b>	<b>100</b>	70-130	1	25
106-93-4	1,2-Dibromoethane	208	211	208		<b>101</b>	<b>100</b>	74-122	1	25
127-18-4	Tetrachloroethene	206	191	188		<b>93</b>	<b>91</b>	66-124	2	25
100-41-4	Ethylbenzene	206	199	197		<b>97</b>	<b>96</b>	70-124	1	25
179601-23-1	m,p-Xylenes	412	395	392		<b>96</b>	<b>95</b>	61-134	1	25
75-25-2	Bromoform	208	216	214		<b>104</b>	<b>103</b>	66-139	1	25
100-42-5	Styrene	206	213	211		<b>103</b>	<b>102</b>	73-127	1	25
95-47-6	o-Xylene	206	198	196		<b>96</b>	<b>95</b>	67-125	1	25
108-67-8	1,3,5-Trimethylbenzene	206	198	197		<b>96</b>	<b>96</b>	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	204	200	198		<b>98</b>	<b>97</b>	66-132	1	25
120-82-1	1,2,4-Trichlorobenzene	388	391	398		<b>101</b>	<b>103</b>	55-142	2	25
91-20-3	Naphthalene	198	205	209		<b>104</b>	<b>106</b>	57-138	2	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005749  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Method Blank Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 10252003.D  
Analyst: Topacio De Leon Date Analyzed: 10/25/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 04:41  
Test Notes:

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P201025-LCS	10252004.D	05:15
Duplicate Lab Control Sample	P201025-DLCS	10252005.D	05:48
SV138-050-204	P2005749-001	10252006.D	10:53
SV138-150-204	P2005749-002	10252007.D	11:27
SV138-150-604	P2005749-003	10252008.D	12:01
SV138-250-204	P2005749-004	10252009.D	13:11
SV138-350-204	P2005749-005	10252010.D	13:45
SV138-450-204	P2005749-006	10252011.D	14:18
SV141-025-204	P2005749-007	10252012.D	14:52
SV141-050-204	P2005749-008	10252013.D	15:26
SV141-170-204	P2005749-009	10252014.D	16:00
SV141-250-204	P2005749-010	10252015.D	16:34
SV141-350-204	P2005749-011	10252016.D	17:07
SV141-450-204	P2005749-012	10252017.D	17:41

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005749  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 10252001.D  
Analyst: Topacio De Leon Date Analyzed: 10/25/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 03:33  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	156699	9.16	669040	11.11	286503	15.45
<b>Upper Limit</b>	219379	9.49	936656	11.44	401104	15.78
<b>Lower Limit</b>	94019	8.83	401424	10.78	171902	15.12

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
		AREA #	RT #	AREA #
01	Method Blank	139946	9.12	601310
02	Lab Control Sample	148110	9.16	633911
03	Duplicate Lab Control Sample	152333	9.16	648130
04	SV138-050-204	147582	9.13	643209
05	SV138-150-204	140280	9.13	605828
06	SV138-150-604	138649	9.13	603068
07	SV138-250-204	150205	9.13	644368
08	SV138-350-204	140504	9.13	604788
09	SV138-450-204	142137	9.13	610315
10	SV141-025-204	142748	9.13	613260
11	SV141-050-204	144065	9.13	614945
12	SV141-170-204	144398	9.13	620023
13	SV141-250-204	141955	9.14	612537
14	SV141-350-204	141732	9.13	611207
15	SV141-450-204	142957	9.14	611449
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



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## LABORATORY REPORT

November 5, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 19, 2020. For your reference, these analyses have been assigned our service request number P2005893.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

  
By Sue Anderson at 1:38 pm, Nov 05, 2020

For Kate Kaneko  
Project Manager

---

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[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2005893

## CASE NARRATIVE

The samples were received intact under chain of custody on October 19, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds and tentatively identified compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The upper control criterion was exceeded for 2-hexanone in the Continuing Calibration Verification (CCV) and for Ethyl acetate in the Laboratory Control Samples (LCS/LCSD) analyzed on November 2, 2020. Therefore, a potential for a high bias exists for those associated sample concentrations reported with positive results. The data has been qualified accordingly.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2005893-005,008,-009,013,-018	Propene
P2005893-003,006,007,008,009,018	Acetone
P2005893-005,-007,008	Ethanol

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2005893

Date Received: 10/19/2020  
 Time Received: 09:30

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	2nd Pi (psig)	2nd Pf (psig)	TO-15 - VOC Cans
SV109-025-204	P2005893-001	Air	10/13/2020	09:08	1SC01043	-1.83	6.23			X
SV109-050-204	P2005893-002	Air	10/13/2020	09:12	1SC00461	-2.51	5.89			X
SV109-150-204	P2005893-003	Air	10/13/2020	09:15	1SS00584	-3.42	6.01			X
SV109-250-204	P2005893-004	Air	10/13/2020	09:18	1SS00761	-2.63	5.87			X
SV109-350-204	P2005893-005	Air	10/13/2020	09:22	1SS00693	-3.09	5.67			X
SV109-450-204	P2005893-006	Air	10/13/2020	09:32	1SC00471	-3.79	5.99			X
SV109-450-604	P2005893-007	Air	10/13/2020	09:32	1SC00562	-2.57	6.26			X
SV110-025-204	P2005893-008	Air	10/13/2020	08:07	1SC00875	-1.81	6.18			X
SV110-050-204	P2005893-009	Air	10/13/2020	08:10	1SC00313	-4.02	5.71			X
SV110-150-204	P2005893-010	Air	10/13/2020	08:13	1SS01039	-2.24	6.03			X
SV110-250-204	P2005893-011	Air	10/13/2020	08:17	1SC00566	-3.56	5.36			X
SV110-250-604	P2005893-012	Air	10/13/2020	08:17	1SC00886	-1.87	5.59			X
SV110-350-204	P2005893-013	Air	10/13/2020	08:29	1SC01271	-2.47	5.63			X
SV110-450-204	P2005893-014	Air	10/13/2020	08:38	1SC01276	-2.18	6.31			X
SV113-020-204	P2005893-015	Air	10/13/2020	08:04	1SS00152	-1.96	5.33	-0.01	7.06	X
SV113-050-204	P2005893-016	Air	10/13/2020	08:09	1SC01187	-2.49	5.92	-0.02	6.39	X
SV113-150-204	P2005893-017	Air	10/13/2020	08:12	1SS00536	-2.30	6.34	-0.02	7.14	X
SV113-250-204	P2005893-018	Air	10/13/2020	08:15	1SC00698	-1.96	5.48			X
SV113-350-204	P2005893-019	Air	10/13/2020	08:19	1SS00517	-3.14	5.53	0.00	4.99	X
SV113-450-204	P2005893-020	Air	10/13/2020	08:29	1SC00610	-1.88	5.59			X

**Air - Chain of Custody Record & Analytical Service Request**



2655 Park Center Drive, Suite A  
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 Fax (805) 526-7270

COC #: **COC-SV204-01**  
 ALS Project No: **105893**

Requested Turnaround Time in Business Days  
 10 Day-Standard

Company Name & Address (Reporting Information)  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

Project Manager / Project Chemist  
 Devon Jermolovic (505) 715-4248 / Pam Moss (303) 590-9143  
 Email Address for Result Reporting

Tara Lamond: [tiamond@eaest.com](mailto:tiamond@eaest.com)  
 Amanda Smith: [asmith@eaest.com](mailto:asmith@eaest.com)  
 Pam Moss: [pmoss@eaest.com](mailto:pmoss@eaest.com)

Project Name: **Kirtland AFB Bulk Fuels Facility**  
 Project Number: **62735DM02**  
 P.O. # / Billing Information: **17662**  
 Sampler (Print & Sign)

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments e.g. Actual Preservative or specific instructions
SV108-025-204	1	10/13/2020	0908	1SC01043	NA	-26.0	-1.0	1L	None
SV108-050-204	2	10/13/2020	0912	1SC00461	NA	-24.0	-2.0	1L	None
SV108-150-204	3	10/13/2020	0915	1SS00584	NA	-25.0	-3.0	1L	None
SV108-250-204	4	10/13/2020	0918	1SS00761	NA	-27.0	-3.0	1L	None
SV108-350-204	5	10/13/2020	0922	1SS00683	NA	-25.0	-4.0	1L	None
SV108-450-204	6	10/13/2020	0932	1SC00471	NA	-24.5	-4.0	1L	None
SV108-450-604	7	10/13/2020	0932	1SC00562	NA	-25.0	-2.0	1L	None
SV110-025-204	8	10/13/2020	0807	1SC00875	NA	-24.0	-1.0	1L	None
SV110-050-204	9	10/13/2020	0810	1SC00313	NA	-25.0	-4.0	1L	None
SV110-150-204	10	10/13/2020	0813	1SS01039	NA	-24.0	-1.5	1L	None

FedEX Tracking Number: **1028 3402 4367 4334**  
 Shipping information: Box number 1 of 6  
 Associated with Trip blank: SVTB204-02

Report Tier Levels - please select  
 Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) *[Signature]* Date: **10/14/20** Time: **1000**  
 Relinquished by: (Signature) *[Signature]* Date: \_\_\_\_\_ Time: \_\_\_\_\_

EDD required: Yes  
 Type: ERPIMS / EQUIS  
 Received by: (Signature) *[Signature]* Date: **10/19/20** Time: **1930**  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Chain of Custody Seal: (Circle)  
 (INTACT)  BROKEN  ABSENT

Project Requirements: OAPP  
 Cooler / Blank Temperature: NA °C

**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270



Requested Turnaround Time in Business Days  
 10 Day-Standard

COC #:

COC-SV204-02

ALS Project No. **1005893**  
 ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Company Name & Address (Reporting Information)  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

Project Manager / Project Chemist  
 Devon Jerdinovic (505) 715-4248 / Pam Moss (303) 590-9143

Email Address for Result Reporting  
 Tara Lamond: [tiamond@eaest.com](mailto:tiamond@eaest.com)  
 Amanda Smith: [asmith@eaest.com](mailto:asmith@eaest.com)  
 Pam Moss: [pmoss@eaest.com](mailto:pmoss@eaest.com)

Project Name: Kirtland AFB Bulk Fuels Facility  
 Project Number: 62795DM02  
 P.O. # / Billing Information: 17682  
 Sampler (Print & Sign):

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments e.g. Actual Preservative or specific instructions
SV110-250-204	11	10/13/2020	0817	1SC00566	NA	-24.0	-2.0	1L	None
SV110-250-804	12	10/13/2020	0817	1SC00886	NA	-23.5	0.0	1L	None
SV110-350-204	13	10/13/2020	0829	1SC01271	NA	-24.0	-2.0	1L	None
SV110-450-204	14	10/13/2020	0838	1SC01276	NA	-24.5	-1.0	1L	None
SV113-020-204	15	10/13/2020	0804	1SS00152	NA	-25.0	-2.0	1L	None
SV113-060-204	16	10/13/2020	0809	1SC01187	NA	-25.5	-3.5	1L	None
SV113-150-204	17	10/13/2020	0812	1SS00536	NA	-26.0	-2.0	1L	None
SV113-250-204	18	10/13/2020	0815	1SC00688	NA	-27.0	-2.5	1L	None
SV113-350-204	19	10/13/2020	0819	1SS00517	NA	-26.5	-5.0	1L	None
SV113-450-204	20	10/13/2020	0829	1SC00610	NA	-25.5	-2.0	1L	None

Associated with Trip blank: SVTB204-02

FedEX Tracking Number: **1028 3407 4286 4334**

Shipping information: Box number 1 of 6

Report Tier Levels - please select  
 Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + OC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries)   
 Tier IV (Data Validation Package) \_\_\_\_\_

Relinquished by: (Signature) *AM* Date: 10/14/20 Time: 1000  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

EDD required: Yes  
 Type: ERPIMS / EQUIS

Chain of Custody Seal: (Circle)  
 INTACT  BROKEN  ABSENT

Received by: (Signature) \_\_\_\_\_ Date: 10/14/20 Time: 830  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Project Requirements: QAPP  
 Cooler / Blank Temperature NA °C

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2005893  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/19/20 Date opened: 10/19/20 by: DENISE.POSADA

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | Yes                                 | No                       | N/A                                 |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? <u>Box sealing.</u> Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2005893-001.01	1.0 L Source Can					
P2005893-002.01	1.0 L Source Can					
P2005893-003.01	1.0 L Source Silonite Canister					
P2005893-004.01	1.0 L Source Silonite Canister					
P2005893-005.01	1.0 L Source Silonite Canister					
P2005893-006.01	1.0 L Source Can					
P2005893-007.01	1.0 L Source Can					
P2005893-008.01	1.0 L Source Can					
P2005893-009.01	1.0 L Source Can					
P2005893-010.01	1.0 L Source Silonite Canister					
P2005893-011.01	1.0 L Source Can					
P2005893-012.01	1.0 L Source Can					
P2005893-013.01	1.0 L Source Can					
P2005893-014.01	1.0 L Source Can					
P2005893-015.01	1.0 L Source Silonite Canister					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01043

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.83 Final Pressure (psig): 6.23

Container Dilution Factor: 1.63

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.76	1.2	0.76	0.31	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.46</b>	0.43	0.26	0.072	
74-87-3	Chloromethane	0.63	1.0	0.63	0.17	U
75-01-4	Vinyl Chloride	0.27	0.85	0.27	0.091	U
106-99-0	1,3-Butadiene	0.59	0.96	0.59	0.16	U
75-00-3	Chloroethane	0.49	0.80	0.49	0.10	U
64-17-5	Ethanol	<b>3.6</b>	11	1.8	0.80	J
67-64-1	Acetone	<b>3.7</b>	8.9	4.6	2.1	J
75-69-4	Trichlorofluoromethane	<b>0.21</b>	0.37	0.23	0.059	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.0	1.7	1.0	0.36	U
75-09-2	Methylene Chloride	<b>0.24</b>	0.61	0.38	0.18	J
76-13-1	Trichlorotrifluoroethane	<b>0.91</b>	0.28	0.090	0.040	
75-15-0	Carbon Disulfide	0.71	1.3	0.71	0.21	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.079	U
78-93-3	2-Butanone (MEK)	<b>0.86</b>	1.4	0.44	0.15	J
141-78-6	Ethyl Acetate	<b>3.0</b>	1.1	0.74	0.32	
110-54-3	n-Hexane	<b>0.85</b>	0.60	0.37	0.13	
67-66-3	Chloroform	0.14	0.44	0.14	0.059	U
109-99-9	Tetrahydrofuran (THF)	0.23	1.4	0.23	0.093	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	<b>0.17</b>	0.66	0.22	0.098	J
56-23-5	Carbon Tetrachloride	0.11	0.33	0.11	0.048	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01043

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.83 Final Pressure (psig): 6.23

Container Dilution Factor: 1.63

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.37</b>	1.2	0.40	0.18	<b>J</b>
75-27-4	Bromodichloromethane	0.10	0.32	0.10	0.047	<b>U</b>
79-01-6	Trichloroethene	0.13	0.39	0.13	0.055	<b>U</b>
123-91-1	1,4-Dioxane	0.19	0.59	0.19	0.071	<b>U</b>
142-82-5	n-Heptane	<b>1.5</b>	0.52	0.32	0.085	
108-10-1	4-Methyl-2-pentanone	0.17	0.99	0.17	0.073	<b>U</b>
108-88-3	Toluene	<b>0.68</b>	0.56	0.18	0.070	
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	<b>U</b>
124-48-1	Dibromochloromethane	0.081	0.25	0.081	0.033	<b>U</b>
106-93-4	1,2-Dibromoethane	0.090	0.28	0.090	0.033	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.45</b>	0.31	0.10	0.041	
100-41-4	Ethylbenzene	0.16	0.49	0.16	0.070	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.34</b>	0.94	0.32	0.13	<b>J</b>
75-25-2	Bromoform	0.13	0.21	0.13	0.043	<b>U</b>
100-42-5	Styrene	0.31	0.50	0.31	0.082	<b>U</b>
95-47-6	o-Xylene	<b>0.11</b>	0.50	0.16	0.072	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.14	0.44	0.14	0.064	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.15</b>	0.43	0.14	0.061	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.18	0.55	0.18	0.071	<b>U</b>
91-20-3	Naphthalene	0.24	0.40	0.24	0.10	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.46</b>	0.94	0.32	0.13	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00461

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.51 Final Pressure (psig): 5.89

Container Dilution Factor: 1.69

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.51</b>	1.3	0.79	0.32	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>8.8</b>	0.44	0.27	0.074	
74-87-3	Chloromethane	0.65	1.1	0.65	0.18	<b>U</b>
75-01-4	Vinyl Chloride	0.28	0.88	0.28	0.094	<b>U</b>
106-99-0	1,3-Butadiene	0.61	0.99	0.61	0.17	<b>U</b>
75-00-3	Chloroethane	0.51	0.83	0.51	0.11	<b>U</b>
64-17-5	Ethanol	<b>1.1</b>	12	1.9	0.83	<b>J</b>
67-64-1	Acetone	4.8	9.3	4.8	2.1	<b>U</b>
75-69-4	Trichlorofluoromethane	<b>0.61</b>	0.38	0.24	0.061	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.7	1.1	0.38	<b>U</b>
75-09-2	Methylene Chloride	0.39	0.63	0.39	0.18	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>14</b>	0.29	0.094	0.042	
75-15-0	Carbon Disulfide	<b>0.62</b>	1.4	0.73	0.22	<b>J</b>
75-34-3	1,1-Dichloroethane	0.34	0.56	0.34	0.081	<b>U</b>
78-93-3	2-Butanone (MEK)	0.46	1.4	0.46	0.16	<b>U</b>
141-78-6	Ethyl Acetate	0.76	1.2	0.76	0.33	<b>U</b>
110-54-3	n-Hexane	<b>0.52</b>	0.62	0.38	0.13	<b>J</b>
67-66-3	Chloroform	<b>0.11</b>	0.46	0.15	0.061	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>1.5</b>	1.4	0.24	0.096	
107-06-2	1,2-Dichloroethane	0.18	0.54	0.18	0.062	<b>U</b>
71-43-2	Benzene	<b>0.26</b>	0.69	0.22	0.10	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>2.8</b>	0.34	0.11	0.050	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV109-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-002

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00461

Initial Pressure (psig): -2.51 Final Pressure (psig): 5.89

Container Dilution Factor: 1.69

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.42	1.2	0.42	0.18	U
75-27-4	Bromodichloromethane	0.11	0.33	0.11	0.049	U
79-01-6	Trichloroethene	<b>35</b>	0.40	0.13	0.057	
123-91-1	1,4-Dioxane	0.20	0.61	0.20	0.074	U
142-82-5	n-Heptane	<b>0.82</b>	0.54	0.33	0.088	
108-10-1	4-Methyl-2-pentanone	0.18	1.0	0.18	0.075	U
108-88-3	Toluene	<b>0.23</b>	0.58	0.19	0.073	J
591-78-6	2-Hexanone	0.18	1.0	0.18	0.068	U
124-48-1	Dibromochloromethane	0.084	0.26	0.084	0.035	U
106-93-4	1,2-Dibromoethane	0.093	0.29	0.093	0.034	U
127-18-4	Tetrachloroethene	<b>2.5</b>	0.32	0.11	0.043	
100-41-4	Ethylbenzene	0.17	0.51	0.17	0.073	U
179601-23-1	m,p-Xylenes	<b>0.16</b>	0.97	0.33	0.14	J
75-25-2	Bromoform	0.13	0.22	0.13	0.045	U
100-42-5	Styrene	0.32	0.52	0.32	0.085	U
95-47-6	o-Xylene	0.17	0.52	0.17	0.075	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.46	0.15	0.066	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.069</b>	0.45	0.15	0.064	J
120-82-1	1,2,4-Trichlorobenzene	0.18	0.57	0.18	0.074	U
91-20-3	Naphthalene	0.25	0.42	0.25	0.10	U
1330-20-7	Xylenes, Total	<b>0.16</b>	0.97	0.33	0.14	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00584

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.42 Final Pressure (psig): 6.01

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.86	1.4	0.86	0.35	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.64</b>	0.48	0.30	0.081	
74-87-3	Chloromethane	0.71	1.2	0.71	0.19	U
75-01-4	Vinyl Chloride	0.31	0.95	0.31	0.10	U
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.18	U
75-00-3	Chloroethane	0.56	0.91	0.56	0.12	U
64-17-5	Ethanol	<b>2.2</b>	13	2.0	0.90	J
67-64-1	Acetone	<b>5.8</b>	10	5.2	2.3	J
75-69-4	Trichlorofluoromethane	<b>0.31</b>	0.42	0.26	0.066	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.69	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	<b>3.2</b>	0.32	0.10	0.046	
75-15-0	Carbon Disulfide	0.80	1.5	0.80	0.24	U
75-34-3	1,1-Dichloroethane	0.38	0.61	0.38	0.089	U
78-93-3	2-Butanone (MEK)	<b>1.4</b>	1.6	0.50	0.17	J
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	U
110-54-3	n-Hexane	<b>0.63</b>	0.68	0.42	0.14	J
67-66-3	Chloroform	0.16	0.50	0.16	0.067	U
109-99-9	Tetrahydrofuran (THF)	0.27	1.6	0.27	0.10	U
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	<b>0.13</b>	0.75	0.24	0.11	J
56-23-5	Carbon Tetrachloride	<b>0.15</b>	0.37	0.12	0.054	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-150-204

ALS Project ID: P2005893

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005893-003

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00584

Initial Pressure (psig): -3.42 Final Pressure (psig): 6.01

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.26</b>	1.3	0.45	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	<b>U</b>
79-01-6	Trichloroethene	<b>0.077</b>	0.44	0.15	0.062	<b>J</b>
123-91-1	1,4-Dioxane	0.22	0.66	0.22	0.080	<b>U</b>
142-82-5	n-Heptane	<b>0.97</b>	0.58	0.36	0.095	
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.082	<b>U</b>
108-88-3	Toluene	<b>0.29</b>	0.63	0.21	0.079	<b>J</b>
591-78-6	2-Hexanone	0.19	1.1	0.19	0.074	<b>U</b>
124-48-1	Dibromochloromethane	0.092	0.28	0.092	0.038	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.067</b>	0.35	0.12	0.047	<b>J</b>
100-41-4	Ethylbenzene	0.18	0.55	0.18	0.079	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.20</b>	1.1	0.36	0.15	<b>J</b>
75-25-2	Bromoform	0.14	0.24	0.14	0.049	<b>U</b>
100-42-5	Styrene	0.35	0.56	0.35	0.093	<b>U</b>
95-47-6	o-Xylene	0.18	0.56	0.18	0.082	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.16	0.50	0.16	0.072	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.099</b>	0.49	0.16	0.069	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.081	<b>U</b>
91-20-3	Naphthalene	0.27	0.46	0.27	0.11	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.20</b>	1.1	0.36	0.15	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00761

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.63 Final Pressure (psig): 5.87

Container Dilution Factor: 1.70

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.50</b>	1.3	0.79	0.32	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>5.5</b>	0.45	0.28	0.075	
74-87-3	Chloromethane	0.66	1.1	0.66	0.18	<b>U</b>
75-01-4	Vinyl Chloride	0.28	0.88	0.28	0.095	<b>U</b>
106-99-0	1,3-Butadiene	0.62	1.0	0.62	0.17	<b>U</b>
75-00-3	Chloroethane	0.52	0.84	0.52	0.11	<b>U</b>
64-17-5	Ethanol	<b>0.86</b>	12	1.9	0.83	<b>J</b>
67-64-1	Acetone	4.8	9.3	4.8	2.1	<b>U</b>
75-69-4	Trichlorofluoromethane	<b>0.59</b>	0.39	0.24	0.061	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.7	1.1	0.38	<b>U</b>
75-09-2	Methylene Chloride	0.39	0.64	0.39	0.18	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>30</b>	0.29	0.094	0.042	
75-15-0	Carbon Disulfide	<b>1.3</b>	1.4	0.74	0.22	<b>J</b>
75-34-3	1,1-Dichloroethane	0.35	0.57	0.35	0.082	<b>U</b>
78-93-3	2-Butanone (MEK)	0.46	1.4	0.46	0.16	<b>U</b>
141-78-6	Ethyl Acetate	0.77	1.2	0.77	0.33	<b>U</b>
110-54-3	n-Hexane	<b>0.48</b>	0.63	0.39	0.13	<b>J</b>
67-66-3	Chloroform	<b>0.59</b>	0.46	0.15	0.062	
109-99-9	Tetrahydrofuran (THF)	<b>3.1</b>	1.4	0.25	0.097	
107-06-2	1,2-Dichloroethane	0.18	0.55	0.18	0.062	<b>U</b>
71-43-2	Benzene	<b>1.0</b>	0.69	0.23	0.10	
56-23-5	Carbon Tetrachloride	<b>3.7</b>	0.34	0.11	0.050	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00761

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.63 Final Pressure (psig): 5.87

Container Dilution Factor: 1.70

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.76</b>	1.2	0.42	0.19	<b>J</b>
75-27-4	Bromodichloromethane	0.11	0.33	0.11	0.049	<b>U</b>
79-01-6	Trichloroethene	<b>22</b>	0.40	0.13	0.057	
123-91-1	1,4-Dioxane	0.20	0.61	0.20	0.074	<b>U</b>
142-82-5	n-Heptane	<b>0.68</b>	0.54	0.33	0.088	
108-10-1	4-Methyl-2-pentanone	0.18	1.0	0.18	0.076	<b>U</b>
108-88-3	Toluene	<b>0.36</b>	0.59	0.19	0.073	<b>J</b>
591-78-6	2-Hexanone	0.18	1.0	0.18	0.069	<b>U</b>
124-48-1	Dibromochloromethane	0.085	0.26	0.085	0.035	<b>U</b>
106-93-4	1,2-Dibromoethane	0.094	0.29	0.094	0.034	<b>U</b>
127-18-4	Tetrachloroethene	<b>2.5</b>	0.33	0.11	0.043	
100-41-4	Ethylbenzene	0.17	0.51	0.17	0.073	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.17</b>	0.98	0.33	0.14	<b>J</b>
75-25-2	Bromoform	0.13	0.22	0.13	0.045	<b>U</b>
100-42-5	Styrene	0.32	0.52	0.32	0.086	<b>U</b>
95-47-6	o-Xylene	0.17	0.52	0.17	0.075	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.15	0.46	0.15	0.067	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.079</b>	0.45	0.15	0.064	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.18	0.57	0.18	0.074	<b>U</b>
91-20-3	Naphthalene	0.25	0.42	0.25	0.11	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.17</b>	0.98	0.33	0.14	<b>J</b>

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00693

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.09 Final Pressure (psig): 5.67

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.61</b>	1.3	0.81	0.33	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.1</b>	0.46	0.28	0.077	
74-87-3	Chloromethane	0.68	1.1	0.68	0.18	<b>U</b>
75-01-4	Vinyl Chloride	0.29	0.91	0.29	0.098	<b>U</b>
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	<b>U</b>
75-00-3	Chloroethane	0.53	0.86	0.53	0.11	<b>U</b>
64-17-5	Ethanol	<b>1.6</b>	12	1.9	0.86	<b>J</b>
67-64-1	Acetone	5.0	9.6	5.0	2.2	<b>U</b>
75-69-4	Trichlorofluoromethane	<b>0.23</b>	0.40	0.25	0.063	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	<b>U</b>
75-09-2	Methylene Chloride	0.40	0.66	0.40	0.19	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>25</b>	0.30	0.097	0.043	
75-15-0	Carbon Disulfide	<b>2.6</b>	1.4	0.76	0.22	
75-34-3	1,1-Dichloroethane	0.36	0.58	0.36	0.084	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>0.22</b>	1.5	0.47	0.16	<b>J</b>
141-78-6	Ethyl Acetate	<b>1.7</b>	1.2	0.79	0.34	
110-54-3	n-Hexane	<b>0.50</b>	0.65	0.40	0.14	<b>J</b>
67-66-3	Chloroform	<b>0.35</b>	0.48	0.15	0.064	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>4.2</b>	1.5	0.25	0.099	
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.064	<b>U</b>
71-43-2	Benzene	<b>2.1</b>	0.71	0.23	0.11	
56-23-5	Carbon Tetrachloride	<b>1.6</b>	0.35	0.12	0.051	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00693

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.09 Final Pressure (psig): 5.67

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.53</b>	1.3	0.43	0.19	<b>J</b>
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.050	<b>U</b>
79-01-6	Trichloroethene	<b>25</b>	0.42	0.14	0.059	
123-91-1	1,4-Dioxane	0.21	0.63	0.21	0.077	<b>U</b>
142-82-5	n-Heptane	<b>0.72</b>	0.56	0.34	0.091	
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.078	<b>U</b>
108-88-3	Toluene	<b>0.39</b>	0.60	0.20	0.075	<b>J</b>
591-78-6	2-Hexanone	0.18	1.1	0.18	0.071	<b>U</b>
124-48-1	Dibromochloromethane	0.087	0.27	0.087	0.036	<b>U</b>
106-93-4	1,2-Dibromoethane	0.097	0.30	0.097	0.035	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.80</b>	0.34	0.11	0.045	
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.076	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.14</b>	1.0	0.34	0.14	<b>J</b>
75-25-2	Bromoform	0.14	0.22	0.14	0.047	<b>U</b>
100-42-5	Styrene	0.33	0.53	0.33	0.088	<b>U</b>
95-47-6	o-Xylene	0.17	0.53	0.17	0.078	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.15	0.47	0.15	0.069	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.066</b>	0.46	0.15	0.066	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.19	0.59	0.19	0.077	<b>U</b>
91-20-3	Naphthalene	0.26	0.43	0.26	0.11	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.14</b>	1.0	0.34	0.14	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00471

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.79 Final Pressure (psig): 5.99

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.0	1.4	0.88	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.28	0.50	0.31	0.084	J
74-87-3	Chloromethane	9.3	1.2	0.74	0.20	
75-01-4	Vinyl Chloride	2.8	0.99	0.32	0.11	
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	2.1	0.94	0.58	0.12	
64-17-5	Ethanol	2.1	13	2.1	0.93	U
67-64-1	Acetone	8.1	10	5.4	2.4	J
75-69-4	Trichlorofluoromethane	0.27	0.43	0.27	0.068	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.71	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	0.80	0.33	0.11	0.047	
75-15-0	Carbon Disulfide	23	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	1.0	0.63	0.39	0.092	
78-93-3	2-Butanone (MEK)	1.6	1.6	0.52	0.18	
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U
110-54-3	n-Hexane	1.9	0.70	0.43	0.15	
67-66-3	Chloroform	0.17	0.52	0.17	0.069	U
109-99-9	Tetrahydrofuran (THF)	7.6	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.54	0.61	0.20	0.069	J
71-43-2	Benzene	1.8	0.77	0.25	0.11	
56-23-5	Carbon Tetrachloride	0.24	0.39	0.13	0.056	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00471

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.79 Final Pressure (psig): 5.99

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.67</b>	1.4	0.47	0.21	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	<b>U</b>
79-01-6	Trichloroethene	<b>1.6</b>	0.45	0.15	0.064	
123-91-1	1,4-Dioxane	0.22	0.69	0.22	0.083	<b>U</b>
142-82-5	n-Heptane	<b>2.7</b>	0.60	0.37	0.099	
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	<b>U</b>
108-88-3	Toluene	<b>4.2</b>	0.66	0.21	0.082	
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	<b>U</b>
124-48-1	Dibromochloromethane	0.095	0.29	0.095	0.039	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.038	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.15</b>	0.36	0.12	0.048	<b>J</b>
100-41-4	Ethylbenzene	<b>0.14</b>	0.57	0.19	0.082	<b>J</b>
179601-23-1	m,p-Xylenes	<b>0.70</b>	1.1	0.37	0.15	<b>J</b>
75-25-2	Bromoform	0.15	0.24	0.15	0.051	<b>U</b>
100-42-5	Styrene	0.36	0.58	0.36	0.096	<b>U</b>
95-47-6	o-Xylene	<b>0.20</b>	0.58	0.19	0.084	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.22</b>	0.50	0.16	0.072	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	<b>U</b>
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.90</b>	1.1	0.37	0.15	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00562

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.57 Final Pressure (psig): 6.26

Container Dilution Factor: 1.73

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.5	1.3	0.80	0.33	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.27	0.46	0.28	0.076	J
74-87-3	Chloromethane	10	1.1	0.67	0.18	
75-01-4	Vinyl Chloride	3.2	0.90	0.29	0.096	
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	U
75-00-3	Chloroethane	2.6	0.85	0.52	0.11	
64-17-5	Ethanol	2.6	12	1.9	0.85	J
67-64-1	Acetone	8.8	9.5	4.9	2.2	J
75-69-4	Trichlorofluoromethane	0.25	0.39	0.25	0.062	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	U
75-09-2	Methylene Chloride	0.40	0.65	0.40	0.19	U
76-13-1	Trichlorotrifluoroethane	0.90	0.30	0.096	0.043	
75-15-0	Carbon Disulfide	26	1.4	0.75	0.22	
75-34-3	1,1-Dichloroethane	1.2	0.58	0.35	0.083	
78-93-3	2-Butanone (MEK)	3.8	1.5	0.47	0.16	
141-78-6	Ethyl Acetate	0.78	1.2	0.78	0.34	U
110-54-3	n-Hexane	0.75	0.64	0.39	0.14	
67-66-3	Chloroform	0.15	0.47	0.15	0.063	U
109-99-9	Tetrahydrofuran (THF)	8.2	1.5	0.25	0.098	
107-06-2	1,2-Dichloroethane	0.63	0.56	0.18	0.063	
71-43-2	Benzene	2.0	0.70	0.23	0.10	
56-23-5	Carbon Tetrachloride	0.27	0.35	0.12	0.051	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-007

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00562

Initial Pressure (psig): -2.57 Final Pressure (psig): 6.26

Container Dilution Factor: 1.73

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.46</b>	1.3	0.43	0.19	<b>J</b>
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.050	<b>U</b>
79-01-6	Trichloroethene	<b>1.8</b>	0.41	0.14	0.058	
123-91-1	1,4-Dioxane	<b>0.53</b>	0.62	0.20	0.076	<b>J</b>
142-82-5	n-Heptane	<b>0.79</b>	0.55	0.34	0.090	
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.077	<b>U</b>
108-88-3	Toluene	<b>4.3</b>	0.60	0.20	0.075	
591-78-6	2-Hexanone	<b>0.55</b>	1.1	0.18	0.070	<b>J</b>
124-48-1	Dibromochloromethane	0.086	0.26	0.086	0.036	<b>U</b>
106-93-4	1,2-Dibromoethane	0.096	0.29	0.096	0.035	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.16</b>	0.33	0.11	0.044	<b>J</b>
100-41-4	Ethylbenzene	<b>0.14</b>	0.52	0.17	0.075	<b>J</b>
179601-23-1	m,p-Xylenes	<b>0.55</b>	1.0	0.34	0.14	<b>J</b>
75-25-2	Bromoform	0.13	0.22	0.13	0.046	<b>U</b>
100-42-5	Styrene	0.33	0.53	0.33	0.087	<b>U</b>
95-47-6	o-Xylene	<b>0.18</b>	0.53	0.17	0.077	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.15	0.47	0.15	0.068	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.14</b>	0.46	0.15	0.065	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.19	0.58	0.19	0.076	<b>U</b>
91-20-3	Naphthalene	0.26	0.43	0.26	0.11	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.73</b>	1.0	0.34	0.14	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00875

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.81 Final Pressure (psig): 6.18

Container Dilution Factor: 1.62

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.31</b>	1.2	0.75	0.31	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.76</b>	0.43	0.26	0.071	
74-87-3	Chloromethane	0.63	1.0	0.63	0.17	<b>U</b>
75-01-4	Vinyl Chloride	0.27	0.84	0.27	0.090	<b>U</b>
106-99-0	1,3-Butadiene	0.59	0.95	0.59	0.16	<b>U</b>
75-00-3	Chloroethane	0.49	0.80	0.49	0.10	<b>U</b>
64-17-5	Ethanol	<b>1.7</b>	11	1.8	0.80	<b>J</b>
67-64-1	Acetone	<b>4.8</b>	8.9	4.6	2.0	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.21</b>	0.37	0.23	0.058	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.0	1.6	1.0	0.36	<b>U</b>
75-09-2	Methylene Chloride	0.37	0.61	0.37	0.17	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.76</b>	0.28	0.090	0.040	
75-15-0	Carbon Disulfide	<b>1.6</b>	1.3	0.70	0.21	
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>0.90</b>	1.4	0.44	0.15	<b>J</b>
141-78-6	Ethyl Acetate	0.73	1.1	0.73	0.31	<b>U</b>
110-54-3	n-Hexane	0.37	0.60	0.37	0.13	<b>U</b>
67-66-3	Chloroform	0.14	0.44	0.14	0.059	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	0.23	1.4	0.23	0.092	<b>U</b>
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	<b>U</b>
71-43-2	Benzene	0.22	0.66	0.22	0.098	<b>U</b>
56-23-5	Carbon Tetrachloride	<b>0.67</b>	0.33	0.11	0.048	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-008

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00875

Initial Pressure (psig): -1.81 Final Pressure (psig): 6.18

Container Dilution Factor: 1.62

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.40	1.2	0.40	0.18	U
75-27-4	Bromodichloromethane	0.10	0.31	0.10	0.047	U
79-01-6	Trichloroethene	0.13	0.38	0.13	0.054	U
123-91-1	1,4-Dioxane	0.19	0.58	0.19	0.071	U
142-82-5	n-Heptane	0.32	0.51	0.32	0.084	U
108-10-1	4-Methyl-2-pentanone	0.17	0.99	0.17	0.072	U
108-88-3	Toluene	<b>0.14</b>	0.56	0.18	0.070	J
591-78-6	2-Hexanone	0.17	0.99	0.17	0.065	U
124-48-1	Dibromochloromethane	0.081	0.25	0.081	0.033	U
106-93-4	1,2-Dibromoethane	0.090	0.27	0.090	0.033	U
127-18-4	Tetrachloroethene	<b>0.18</b>	0.31	0.10	0.041	J
100-41-4	Ethylbenzene	0.16	0.49	0.16	0.070	U
179601-23-1	m,p-Xylenes	0.32	0.93	0.32	0.13	U
75-25-2	Bromoform	0.13	0.21	0.13	0.043	U
100-42-5	Styrene	0.30	0.49	0.30	0.082	U
95-47-6	o-Xylene	0.16	0.49	0.16	0.072	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.44	0.14	0.063	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.43	0.14	0.061	U
120-82-1	1,2,4-Trichlorobenzene	0.17	0.55	0.17	0.071	U
91-20-3	Naphthalene	0.24	0.40	0.24	0.10	U
1330-20-7	Xylenes, Total	0.32	0.93	0.32	0.13	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00313

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.02 Final Pressure (psig): 5.71

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.45</b>	1.4	0.89	0.36	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.2</b>	0.50	0.31	0.084	
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	<b>U</b>
75-01-4	Vinyl Chloride	0.32	0.99	0.32	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	<b>U</b>
75-00-3	Chloroethane	0.58	0.94	0.58	0.12	<b>U</b>
64-17-5	Ethanol	<b>4.7</b>	13	2.1	0.94	<b>J</b>
67-64-1	Acetone	<b>15</b>	10	5.4	2.4	
75-69-4	Trichlorofluoromethane	<b>0.33</b>	0.43	0.27	0.069	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.89</b>	1.9	1.2	0.43	<b>J</b>
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>3.9</b>	0.33	0.11	0.047	
75-15-0	Carbon Disulfide	<b>1.4</b>	1.5	0.83	0.25	<b>J</b>
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.092	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>4.8</b>	1.6	0.52	0.18	
141-78-6	Ethyl Acetate	<b>5.9</b>	1.3	0.86	0.37	
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	<b>U</b>
67-66-3	Chloroform	<b>0.099</b>	0.52	0.17	0.069	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>1.3</b>	1.6	0.28	0.11	<b>J</b>
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.070	<b>U</b>
71-43-2	Benzene	0.25	0.78	0.25	0.12	<b>U</b>
56-23-5	Carbon Tetrachloride	<b>2.8</b>	0.39	0.13	0.056	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV110-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-009

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00313

Initial Pressure (psig): -4.02 Final Pressure (psig): 5.71

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	<b>0.21</b>	0.45	0.15	0.064	J
123-91-1	1,4-Dioxane	0.23	0.69	0.23	0.084	U
142-82-5	n-Heptane	0.37	0.61	0.37	0.099	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	U
108-88-3	Toluene	<b>0.20</b>	0.66	0.22	0.082	J
591-78-6	2-Hexanone	<b>0.42</b>	1.2	0.20	0.077	J
124-48-1	Dibromochloromethane	0.095	0.29	0.095	0.039	U
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.42</b>	0.37	0.12	0.049	
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	<b>0.18</b>	1.1	0.37	0.15	J
75-25-2	Bromoform	0.15	0.24	0.15	0.051	U
100-42-5	Styrene	0.36	0.58	0.36	0.096	U
95-47-6	o-Xylene	0.19	0.58	0.19	0.085	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.51	0.17	0.075	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.18</b>	0.51	0.17	0.072	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.64	0.21	0.084	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	<b>0.18</b>	1.1	0.37	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01039

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.00125 Liter(s)

Initial Pressure (psig): -2.24 Final Pressure (psig): 6.03

Container Dilution Factor: 1.66

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>1,800</b>	400	250	100	
75-71-8	Dichlorodifluoromethane (CFC 12)	86	140	86	23	U
74-87-3	Chloromethane	210	330	210	55	U
75-01-4	Vinyl Chloride	88	280	88	30	U
106-99-0	1,3-Butadiene	190	310	190	53	U
75-00-3	Chloroethane	160	260	160	33	U
64-17-5	Ethanol	590	3,700	590	260	U
67-64-1	Acetone	1,500	2,900	1,500	670	U
75-69-4	Trichlorofluoromethane	76	120	76	19	U
67-63-0	2-Propanol (Isopropyl Alcohol)	340	540	340	120	U
75-09-2	Methylene Chloride	120	200	120	57	U
76-13-1	Trichlorotrifluoroethane	<b>17</b>	92	29	13	J
75-15-0	Carbon Disulfide	230	430	230	68	U
75-34-3	1,1-Dichloroethane	110	180	110	26	U
78-93-3	2-Butanone (MEK)	140	450	140	50	U
141-78-6	Ethyl Acetate	240	370	240	100	U, L
110-54-3	n-Hexane	<b>28,000</b>	200	120	41	
67-66-3	Chloroform	46	140	46	19	U
109-99-9	Tetrahydrofuran (THF)	77	450	77	30	U
107-06-2	1,2-Dichloroethane	56	170	56	19	U
71-43-2	Benzene	<b>1,200</b>	220	71	32	
56-23-5	Carbon Tetrachloride	36	110	36	16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-010

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00125 Liter(s)

Test Notes:

Container ID: 1SS01039

Initial Pressure (psig): -2.24 Final Pressure (psig): 6.03

Container Dilution Factor: 1.66

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>40,000</b>	390	130	58	
75-27-4	Bromodichloromethane	34	100	34	15	U
79-01-6	Trichloroethene	42	130	42	18	U
123-91-1	1,4-Dioxane	63	190	63	23	U
142-82-5	n-Heptane	<b>6,700</b>	170	100	28	
108-10-1	4-Methyl-2-pentanone	55	320	55	24	U
108-88-3	Toluene	<b>100</b>	180	60	23	J
591-78-6	2-Hexanone	55	320	55	21	U
124-48-1	Dibromochloromethane	27	81	27	11	U
106-93-4	1,2-Dibromoethane	29	90	29	11	U
127-18-4	Tetrachloroethene	33	100	33	14	U
100-41-4	Ethylbenzene	52	160	52	23	U
179601-23-1	m,p-Xylenes	100	310	100	43	U
75-25-2	Bromoform	41	68	41	14	U
100-42-5	Styrene	100	160	100	27	U
95-47-6	o-Xylene	<b>41</b>	160	52	24	J
108-67-8	1,3,5-Trimethylbenzene	46	140	46	21	U
95-63-6	1,2,4-Trimethylbenzene	46	140	46	20	U
120-82-1	1,2,4-Trichlorobenzene	57	180	57	23	U
91-20-3	Naphthalene	79	130	79	33	U
1330-20-7	Xylenes, Total	100	310	100	43	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00566

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.00010 Liter(s)

Initial Pressure (psig): -3.56 Final Pressure (psig): 5.36

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>10,000</b>	5,400	3,300	1,400	
75-71-8	Dichlorodifluoromethane (CFC 12)	1,200	1,900	1,200	320	U
74-87-3	Chloromethane	2,800	4,500	2,800	750	U
75-01-4	Vinyl Chloride	1,200	3,700	1,200	400	U
106-99-0	1,3-Butadiene	2,600	4,200	2,600	720	U
75-00-3	Chloroethane	2,200	3,500	2,200	450	U
64-17-5	Ethanol	7,900	51,000	7,900	3,500	U
67-64-1	Acetone	20,000	39,000	20,000	9,100	U
75-69-4	Trichlorofluoromethane	1,000	1,600	1,000	260	U
67-63-0	2-Propanol (Isopropyl Alcohol)	4,600	7,300	4,600	1,600	U
75-09-2	Methylene Chloride	1,700	2,700	1,700	780	U
76-13-1	Trichlorotrifluoroethane	400	1,200	400	180	U
75-15-0	Carbon Disulfide	3,100	5,800	3,100	930	U
75-34-3	1,1-Dichloroethane	1,500	2,400	1,500	350	U
78-93-3	2-Butanone (MEK)	2,000	6,100	2,000	670	U
141-78-6	Ethyl Acetate	3,200	5,000	3,200	1,400	U, L
110-54-3	n-Hexane	<b>440,000</b>	2,700	1,600	560	
67-66-3	Chloroform	630	2,000	630	260	U
109-99-9	Tetrahydrofuran (THF)	1,000	6,100	1,000	410	U
107-06-2	1,2-Dichloroethane	760	2,300	760	260	U
71-43-2	Benzene	<b>21,000</b>	2,900	960	430	
56-23-5	Carbon Tetrachloride	490	1,500	490	210	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-011

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

Container ID: 1SC00566

Initial Pressure (psig): -3.56 Final Pressure (psig): 5.36

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>340,000</b>	5,200	1,800	780	
75-27-4	Bromodichloromethane	460	1,400	460	210	U
79-01-6	Trichloroethene	570	1,700	570	240	U
123-91-1	1,4-Dioxane	850	2,600	850	310	U
142-82-5	n-Heptane	<b>310,000</b>	2,300	1,400	370	
108-10-1	4-Methyl-2-pentanone	750	4,400	750	320	U
108-88-3	Toluene	<b>21,000</b>	2,500	810	310	
591-78-6	2-Hexanone	750	4,400	750	290	U
124-48-1	Dibromochloromethane	360	1,100	360	150	U
106-93-4	1,2-Dibromoethane	400	1,200	400	150	U
127-18-4	Tetrachloroethene	450	1,400	450	180	U
100-41-4	Ethylbenzene	700	2,200	700	310	U
179601-23-1	m,p-Xylenes	<b>3,000</b>	4,100	1,400	580	J
75-25-2	Bromoform	560	920	560	190	U
100-42-5	Styrene	1,400	2,200	1,400	360	U
95-47-6	o-Xylene	<b>680</b>	2,200	700	320	J
108-67-8	1,3,5-Trimethylbenzene	620	1,900	620	280	U
95-63-6	1,2,4-Trimethylbenzene	620	1,900	620	270	U
120-82-1	1,2,4-Trichlorobenzene	780	2,400	780	320	U
91-20-3	Naphthalene	1,100	1,800	1,100	450	U
1330-20-7	Xylenes, Total	<b>3,700</b>	4,100	1,400	580	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00886

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.00010 Liter(s)

Initial Pressure (psig): -1.87 Final Pressure (psig): 5.59

Container Dilution Factor: 1.58

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>9,500</b>	4,800	2,900	1,200	
75-71-8	Dichlorodifluoromethane (CFC 12)	1,000	1,700	1,000	280	U
74-87-3	Chloromethane	2,400	4,000	2,400	660	U
75-01-4	Vinyl Chloride	1,100	3,300	1,100	350	U
106-99-0	1,3-Butadiene	2,300	3,700	2,300	630	U
75-00-3	Chloroethane	1,900	3,100	1,900	400	U
64-17-5	Ethanol	7,000	44,000	7,000	3,100	U
67-64-1	Acetone	18,000	35,000	18,000	8,000	U
75-69-4	Trichlorofluoromethane	900	1,400	900	230	U
67-63-0	2-Propanol (Isopropyl Alcohol)	4,100	6,400	4,100	1,400	U
75-09-2	Methylene Chloride	1,500	2,400	1,500	680	U
76-13-1	Trichlorotrifluoroethane	350	1,100	350	160	U
75-15-0	Carbon Disulfide	2,700	5,100	2,700	810	U
75-34-3	1,1-Dichloroethane	1,300	2,100	1,300	300	U
78-93-3	2-Butanone (MEK)	1,700	5,400	1,700	590	U
141-78-6	Ethyl Acetate	2,900	4,400	2,900	1,200	U, L
110-54-3	n-Hexane	<b>390,000</b>	2,300	1,400	490	
67-66-3	Chloroform	550	1,700	550	230	U
109-99-9	Tetrahydrofuran (THF)	910	5,400	910	360	U
107-06-2	1,2-Dichloroethane	660	2,000	660	230	U
71-43-2	Benzene	<b>19,000</b>	2,600	840	380	
56-23-5	Carbon Tetrachloride	430	1,300	430	190	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV110-250-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-012

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

Container ID: 1SC00886

Initial Pressure (psig): -1.87 Final Pressure (psig): 5.59

Container Dilution Factor: 1.58

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>320,000</b>	4,600	1,600	690	
75-27-4	Bromodichloromethane	400	1,200	400	180	U
79-01-6	Trichloroethene	500	1,500	500	210	U
123-91-1	1,4-Dioxane	750	2,300	750	280	U
142-82-5	n-Heptane	<b>290,000</b>	2,000	1,200	330	
108-10-1	4-Methyl-2-pentanone	660	3,900	660	280	U
108-88-3	Toluene	<b>20,000</b>	2,200	710	270	
591-78-6	2-Hexanone	660	3,900	660	250	U
124-48-1	Dibromochloromethane	320	960	320	130	U
106-93-4	1,2-Dibromoethane	350	1,100	350	130	U
127-18-4	Tetrachloroethene	400	1,200	400	160	U
100-41-4	Ethylbenzene	620	1,900	620	270	U
179601-23-1	m,p-Xylenes	<b>3,100</b>	3,600	1,200	510	J
75-25-2	Bromoform	490	810	490	170	U
100-42-5	Styrene	1,200	1,900	1,200	320	U
95-47-6	o-Xylene	<b>760</b>	1,900	620	280	J
108-67-8	1,3,5-Trimethylbenzene	550	1,700	550	250	U
95-63-6	1,2,4-Trimethylbenzene	550	1,700	550	240	U
120-82-1	1,2,4-Trichlorobenzene	680	2,100	680	280	U
91-20-3	Naphthalene	930	1,600	930	390	U
1330-20-7	Xylenes, Total	<b>3,900</b>	3,600	1,200	510	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01271

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0080 Liter(s)

Initial Pressure (psig): -2.47 Final Pressure (psig): 5.63

Container Dilution Factor: 1.66

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	390	63	39	16	
75-71-8	Dichlorodifluoromethane (CFC 12)	61	22	13	3.7	
74-87-3	Chloromethane	32	52	32	8.6	U
75-01-4	Vinyl Chloride	14	43	14	4.6	U
106-99-0	1,3-Butadiene	30	49	30	8.3	U
75-00-3	Chloroethane	25	41	25	5.2	U
64-17-5	Ethanol	91	580	91	41	U
67-64-1	Acetone	240	450	240	100	U
75-69-4	Trichlorofluoromethane	4.0	19	12	3.0	J
67-63-0	2-Propanol (Isopropyl Alcohol)	53	84	53	19	U
75-09-2	Methylene Chloride	19	31	19	9.0	U
76-13-1	Trichlorotrifluoroethane	26	14	4.6	2.1	
75-15-0	Carbon Disulfide	36	67	36	11	U
75-34-3	1,1-Dichloroethane	17	28	17	4.0	U
78-93-3	2-Butanone (MEK)	23	70	23	7.7	U
141-78-6	Ethyl Acetate	37	58	37	16	U, L
110-54-3	n-Hexane	3,100	31	19	6.5	
67-66-3	Chloroform	7.2	23	7.2	3.0	U
109-99-9	Tetrahydrofuran (THF)	12	70	12	4.7	U
107-06-2	1,2-Dichloroethane	8.7	27	8.7	3.0	U
71-43-2	Benzene	6.0	34	11	5.0	J
56-23-5	Carbon Tetrachloride	6.6	17	5.6	2.4	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01271

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0080 Liter(s)

Initial Pressure (psig): -2.47 Final Pressure (psig): 5.63

Container Dilution Factor: 1.66

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	11,000	60	21	9.0	
75-27-4	Bromodichloromethane	5.3	16	5.3	2.4	U
79-01-6	Trichloroethene	8.3	20	6.6	2.8	J
123-91-1	1,4-Dioxane	9.8	30	9.8	3.6	U
142-82-5	n-Heptane	31	26	16	4.3	
108-10-1	4-Methyl-2-pentanone	8.6	51	8.6	3.7	U
108-88-3	Toluene	21	29	9.4	3.6	J
591-78-6	2-Hexanone	8.6	51	8.6	3.3	U
124-48-1	Dibromochloromethane	4.1	13	4.1	1.7	U
106-93-4	1,2-Dibromoethane	4.6	14	4.6	1.7	U
127-18-4	Tetrachloroethene	2.3	16	5.2	2.1	J
100-41-4	Ethylbenzene	8.1	25	8.1	3.6	U
179601-23-1	m,p-Xylenes	16	48	16	6.7	U
75-25-2	Bromoform	6.4	11	6.4	2.2	U
100-42-5	Styrene	16	25	16	4.2	U
95-47-6	o-Xylene	8.1	25	8.1	3.7	U
108-67-8	1,3,5-Trimethylbenzene	7.2	22	7.2	3.3	U
95-63-6	1,2,4-Trimethylbenzene	7.2	22	7.2	3.1	U
120-82-1	1,2,4-Trichlorobenzene	8.9	28	8.9	3.6	U
91-20-3	Naphthalene	12	21	12	5.1	U
1330-20-7	Xylenes, Total	16	48	16	6.7	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01276

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -2.18 Final Pressure (psig): 6.31

Container Dilution Factor: 1.68

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	98	34	21	8.5	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	12	7.3	2.0	J
74-87-3	Chloromethane	19	28	17	4.7	J
75-01-4	Vinyl Chloride	7.5	23	7.5	2.5	U
106-99-0	1,3-Butadiene	16	26	16	4.5	U
75-00-3	Chloroethane	14	22	14	2.8	U
64-17-5	Ethanol	35	320	49	22	J
67-64-1	Acetone	130	250	130	57	U
75-69-4	Trichlorofluoromethane	6.4	10	6.4	1.6	U
67-63-0	2-Propanol (Isopropyl Alcohol)	29	46	29	10	U
75-09-2	Methylene Chloride	50	17	10	4.8	
76-13-1	Trichlorotrifluoroethane	2.5	7.7	2.5	1.1	U
75-15-0	Carbon Disulfide	61	36	19	5.8	
75-34-3	1,1-Dichloroethane	9.1	15	9.1	2.2	U
78-93-3	2-Butanone (MEK)	12	38	12	4.2	U
141-78-6	Ethyl Acetate	20	31	20	8.7	U, L
110-54-3	n-Hexane	2,400	17	10	3.5	
67-66-3	Chloroform	3.9	12	3.9	1.6	U
109-99-9	Tetrahydrofuran (THF)	16	38	6.5	2.5	J
107-06-2	1,2-Dichloroethane	4.7	14	4.7	1.6	U
71-43-2	Benzene	110	18	6.0	2.7	
56-23-5	Carbon Tetrachloride	3.0	9.1	3.0	1.3	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01276

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -2.18 Final Pressure (psig): 6.31

Container Dilution Factor: 1.68

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>2,200</b>	33	11	4.9	
75-27-4	Bromodichloromethane	2.8	8.7	2.8	1.3	U
79-01-6	Trichloroethene	3.5	11	3.5	1.5	U
123-91-1	1,4-Dioxane	5.3	16	5.3	2.0	U
142-82-5	n-Heptane	<b>2,000</b>	14	8.7	2.3	
108-10-1	4-Methyl-2-pentanone	4.6	27	4.6	2.0	U
108-88-3	Toluene	<b>220</b>	15	5.1	1.9	
591-78-6	2-Hexanone	4.6	27	4.6	1.8	U
124-48-1	Dibromochloromethane	2.2	6.8	2.2	0.92	U
106-93-4	1,2-Dibromoethane	2.5	7.6	2.5	0.90	U
127-18-4	Tetrachloroethene	2.8	8.6	2.8	1.1	U
100-41-4	Ethylbenzene	<b>7.5</b>	13	4.4	1.9	J
179601-23-1	m,p-Xylenes	<b>28</b>	26	8.8	3.6	
75-25-2	Bromoform	3.5	5.7	3.5	1.2	U
100-42-5	Styrene	8.4	14	8.4	2.3	U
95-47-6	o-Xylene	<b>6.2</b>	14	4.4	2.0	J
108-67-8	1,3,5-Trimethylbenzene	3.9	12	3.9	1.8	U
95-63-6	1,2,4-Trimethylbenzene	3.9	12	3.9	1.7	U
120-82-1	1,2,4-Trichlorobenzene	4.8	15	4.8	2.0	U
91-20-3	Naphthalene	6.6	11	6.6	2.8	U
1330-20-7	Xylenes, Total	<b>34</b>	26	8.8	3.6	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-020-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00152

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.96    Final Pressure (psig): 5.33  
 Initial Pressure 2 (psig): -0.01    Final Pressure 2 (psig): 7.06

Container Dilution Factor: 2.33

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.1	1.8	1.1	0.44	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.64</b>	0.61	0.38	0.10	
74-87-3	Chloromethane	0.90	1.5	0.90	0.24	U
75-01-4	Vinyl Chloride	0.39	1.2	0.39	0.13	U
106-99-0	1,3-Butadiene	0.84	1.4	0.84	0.23	U
75-00-3	Chloroethane	0.71	1.1	0.71	0.15	U
64-17-5	Ethanol	<b>6.5</b>	16	2.6	1.1	J
67-64-1	Acetone	<b>5.7</b>	13	6.6	2.9	J
75-69-4	Trichlorofluoromethane	<b>0.19</b>	0.53	0.33	0.084	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.5	2.4	1.5	0.52	U
75-09-2	Methylene Chloride	0.54	0.87	0.54	0.25	U
76-13-1	Trichlorotrifluoroethane	<b>0.11</b>	0.40	0.13	0.058	J
75-15-0	Carbon Disulfide	<b>2.5</b>	1.9	1.0	0.30	
75-34-3	1,1-Dichloroethane	0.48	0.78	0.48	0.11	U
78-93-3	2-Butanone (MEK)	<b>0.72</b>	2.0	0.63	0.22	J
141-78-6	Ethyl Acetate	<b>11</b>	1.6	1.1	0.45	, L
110-54-3	n-Hexane	0.53	0.86	0.53	0.18	U
67-66-3	Chloroform	0.20	0.63	0.20	0.085	U
109-99-9	Tetrahydrofuran (THF)	0.34	2.0	0.34	0.13	U
107-06-2	1,2-Dichloroethane	0.24	0.75	0.24	0.085	U
71-43-2	Benzene	<b>0.36</b>	0.95	0.31	0.14	J
56-23-5	Carbon Tetrachloride	<b>0.18</b>	0.47	0.16	0.069	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-020-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-015

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00152

Initial Pressure (psig): -1.96 Final Pressure (psig): 5.33

Initial Pressure 2 (psig): -0.01 Final Pressure 2 (psig): 7.06

Container Dilution Factor: 2.33

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.58	1.7	0.58	0.25	U
75-27-4	Bromodichloromethane	0.15	0.45	0.15	0.067	U
79-01-6	Trichloroethene	0.18	0.55	0.18	0.078	U
123-91-1	1,4-Dioxane	0.27	0.84	0.27	0.10	U
142-82-5	n-Heptane	0.46	0.74	0.46	0.12	U
108-10-1	4-Methyl-2-pentanone	0.24	1.4	0.24	0.10	U
108-88-3	Toluene	<b>0.69</b>	0.80	0.26	0.10	J
591-78-6	2-Hexanone	0.24	1.4	0.24	0.094	U
124-48-1	Dibromochloromethane	0.12	0.36	0.12	0.048	U
106-93-4	1,2-Dibromoethane	0.13	0.39	0.13	0.047	U
127-18-4	Tetrachloroethene	<b>0.080</b>	0.45	0.15	0.059	J
100-41-4	Ethylbenzene	0.23	0.70	0.23	0.10	U
179601-23-1	m,p-Xylenes	<b>0.24</b>	1.3	0.46	0.19	J
75-25-2	Bromoform	0.18	0.30	0.18	0.062	U
100-42-5	Styrene	0.44	0.71	0.44	0.12	U
95-47-6	o-Xylene	0.23	0.71	0.23	0.10	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.63	0.20	0.091	U
95-63-6	1,2,4-Trimethylbenzene	0.20	0.62	0.20	0.088	U
120-82-1	1,2,4-Trichlorobenzene	0.25	0.79	0.25	0.10	U
91-20-3	Naphthalene	0.34	0.58	0.34	0.14	U
1330-20-7	Xylenes, Total	<b>0.24</b>	1.3	0.46	0.19	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01187

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.49    Final Pressure (psig): 5.92  
 Initial Pressure 2 (psig): -0.02    Final Pressure 2 (psig): 6.39

Container Dilution Factor: 2.43

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.1	1.8	1.1	0.46	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>1.4</b>	0.64	0.39	0.11	
74-87-3	Chloromethane	0.94	1.5	0.94	0.25	U
75-01-4	Vinyl Chloride	0.40	1.3	0.40	0.14	U
106-99-0	1,3-Butadiene	0.88	1.4	0.88	0.24	U
75-00-3	Chloroethane	0.74	1.2	0.74	0.15	U
64-17-5	Ethanol	<b>4.2</b>	17	2.7	1.2	J
67-64-1	Acetone	6.9	13	6.9	3.1	U
75-69-4	Trichlorofluoromethane	<b>0.22</b>	0.55	0.35	0.088	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	2.5	1.6	0.54	U
75-09-2	Methylene Chloride	0.56	0.91	0.56	0.26	U
76-13-1	Trichlorotrifluoroethane	<b>0.40</b>	0.42	0.13	0.060	J
75-15-0	Carbon Disulfide	<b>0.32</b>	2.0	1.1	0.31	J
75-34-3	1,1-Dichloroethane	0.50	0.81	0.50	0.12	U
78-93-3	2-Butanone (MEK)	<b>0.56</b>	2.1	0.66	0.23	J
141-78-6	Ethyl Acetate	1.1	1.7	1.1	0.47	U, L
110-54-3	n-Hexane	0.55	0.90	0.55	0.19	U
67-66-3	Chloroform	<b>5.1</b>	0.66	0.21	0.088	
109-99-9	Tetrahydrofuran (THF)	<b>1.1</b>	2.1	0.35	0.14	J
107-06-2	1,2-Dichloroethane	0.26	0.78	0.26	0.089	U
71-43-2	Benzene	0.32	0.99	0.32	0.15	U
56-23-5	Carbon Tetrachloride	<b>2.1</b>	0.49	0.16	0.071	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01187

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 5.92

Initial Pressure 2 (psig): -0.02 Final Pressure 2 (psig): 6.39

Container Dilution Factor: 2.43

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.60	1.8	0.60	0.26	U
75-27-4	Bromodichloromethane	<b>0.30</b>	0.47	0.15	0.070	J
79-01-6	Trichloroethene	0.19	0.58	0.19	0.081	U
123-91-1	1,4-Dioxane	0.29	0.88	0.29	0.11	U
142-82-5	n-Heptane	<b>0.16</b>	0.77	0.47	0.13	J
108-10-1	4-Methyl-2-pentanone	0.25	1.5	0.25	0.11	U
108-88-3	Toluene	<b>0.37</b>	0.84	0.27	0.10	J
591-78-6	2-Hexanone	0.25	1.5	0.25	0.098	U
124-48-1	Dibromochloromethane	0.12	0.37	0.12	0.050	U
106-93-4	1,2-Dibromoethane	0.13	0.41	0.13	0.049	U
127-18-4	Tetrachloroethene	<b>0.51</b>	0.47	0.15	0.062	
100-41-4	Ethylbenzene	0.24	0.73	0.24	0.10	U
179601-23-1	m,p-Xylenes	0.48	1.4	0.48	0.20	U
75-25-2	Bromoform	0.19	0.31	0.19	0.065	U
100-42-5	Styrene	0.46	0.74	0.46	0.12	U
95-47-6	o-Xylene	0.24	0.74	0.24	0.11	U
108-67-8	1,3,5-Trimethylbenzene	0.21	0.66	0.21	0.095	U
95-63-6	1,2,4-Trimethylbenzene	0.21	0.64	0.21	0.091	U
120-82-1	1,2,4-Trichlorobenzene	0.26	0.82	0.26	0.11	U
91-20-3	Naphthalene	0.36	0.60	0.36	0.15	U
1330-20-7	Xylenes, Total	0.48	1.4	0.48	0.20	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00536

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.30    Final Pressure (psig): 6.34  
 Initial Pressure 2 (psig): -0.02    Final Pressure 2 (psig): 7.14

Container Dilution Factor: 2.52

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.2	1.9	1.2	0.48	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.7</b>	0.66	0.41	0.11	
74-87-3	Chloromethane	0.98	1.6	0.98	0.26	U
75-01-4	Vinyl Chloride	0.42	1.3	0.42	0.14	U
106-99-0	1,3-Butadiene	0.91	1.5	0.91	0.25	U
75-00-3	Chloroethane	0.76	1.2	0.76	0.16	U
64-17-5	Ethanol	<b>4.9</b>	18	2.8	1.2	J
67-64-1	Acetone	<b>4.7</b>	14	7.2	3.2	J
75-69-4	Trichlorofluoromethane	<b>0.24</b>	0.57	0.36	0.091	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	2.6	1.6	0.56	U
75-09-2	Methylene Chloride	0.58	0.94	0.58	0.27	U
76-13-1	Trichlorotrifluoroethane	<b>0.47</b>	0.44	0.14	0.063	
75-15-0	Carbon Disulfide	<b>3.5</b>	2.0	1.1	0.32	
75-34-3	1,1-Dichloroethane	0.51	0.84	0.51	0.12	U
78-93-3	2-Butanone (MEK)	<b>0.96</b>	2.1	0.68	0.24	J
141-78-6	Ethyl Acetate	1.1	1.7	1.1	0.49	U, L
110-54-3	n-Hexane	0.57	0.93	0.57	0.20	U
67-66-3	Chloroform	<b>1.3</b>	0.68	0.22	0.092	
109-99-9	Tetrahydrofuran (THF)	<b>9.4</b>	2.1	0.36	0.14	
107-06-2	1,2-Dichloroethane	0.26	0.81	0.26	0.092	U
71-43-2	Benzene	<b>0.18</b>	1.0	0.34	0.15	J
56-23-5	Carbon Tetrachloride	<b>3.4</b>	0.51	0.17	0.074	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00536

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.30    Final Pressure (psig): 6.34  
 Initial Pressure 2 (psig): -0.02    Final Pressure 2 (psig): 7.14

Container Dilution Factor: 2.52

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.62	1.8	0.62	0.27	U
75-27-4	Bromodichloromethane	0.16	0.49	0.16	0.072	U
79-01-6	Trichloroethene	0.20	0.60	0.20	0.084	U
123-91-1	1,4-Dioxane	0.30	0.91	0.30	0.11	U
142-82-5	n-Heptane	0.49	0.80	0.49	0.13	U
108-10-1	4-Methyl-2-pentanone	0.26	1.5	0.26	0.11	U
108-88-3	Toluene	<b>0.29</b>	0.87	0.28	0.11	J
591-78-6	2-Hexanone	0.26	1.5	0.26	0.10	U
124-48-1	Dibromochloromethane	0.13	0.38	0.13	0.052	U
106-93-4	1,2-Dibromoethane	0.14	0.43	0.14	0.051	U
127-18-4	Tetrachloroethene	<b>0.54</b>	0.48	0.16	0.064	
100-41-4	Ethylbenzene	0.25	0.75	0.25	0.11	U
179601-23-1	m,p-Xylenes	0.49	1.5	0.49	0.20	U
75-25-2	Bromoform	0.20	0.32	0.20	0.067	U
100-42-5	Styrene	0.47	0.77	0.47	0.13	U
95-47-6	o-Xylene	0.25	0.77	0.25	0.11	U
108-67-8	1,3,5-Trimethylbenzene	0.22	0.68	0.22	0.099	U
95-63-6	1,2,4-Trimethylbenzene	0.22	0.67	0.22	0.095	U
120-82-1	1,2,4-Trichlorobenzene	0.27	0.85	0.27	0.11	U
91-20-3	Naphthalene	0.37	0.63	0.37	0.16	U
1330-20-7	Xylenes, Total	0.49	1.5	0.49	0.20	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00698

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.96 Final Pressure (psig): 5.48

Container Dilution Factor: 1.58

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.49	1.2	0.73	0.30	J
75-71-8	Dichlorodifluoromethane (CFC 12)	7.3	0.42	0.26	0.070	
74-87-3	Chloromethane	0.22	1.0	0.61	0.16	J
75-01-4	Vinyl Chloride	0.26	0.82	0.26	0.088	U
106-99-0	1,3-Butadiene	0.57	0.93	0.57	0.16	U
75-00-3	Chloroethane	0.48	0.78	0.48	0.099	U
64-17-5	Ethanol	3.6	11	1.7	0.78	J
67-64-1	Acetone	6.3	8.7	4.5	2.0	J
75-69-4	Trichlorofluoromethane	0.45	0.36	0.23	0.057	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.39	1.6	1.0	0.35	J
75-09-2	Methylene Chloride	0.28	0.59	0.36	0.17	J
76-13-1	Trichlorotrifluoroethane	0.51	0.27	0.088	0.039	
75-15-0	Carbon Disulfide	4.1	1.3	0.69	0.20	
75-34-3	1,1-Dichloroethane	0.32	0.53	0.32	0.076	U
78-93-3	2-Butanone (MEK)	2.1	1.3	0.43	0.15	
141-78-6	Ethyl Acetate	0.68	1.1	0.71	0.31	J, L
110-54-3	n-Hexane	0.13	0.58	0.36	0.12	J
67-66-3	Chloroform	0.45	0.43	0.14	0.057	
109-99-9	Tetrahydrofuran (THF)	3.8	1.3	0.23	0.090	
107-06-2	1,2-Dichloroethane	0.17	0.51	0.17	0.058	U
71-43-2	Benzene	0.21	0.64	0.21	0.095	J
56-23-5	Carbon Tetrachloride	2.4	0.32	0.11	0.046	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV113-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-018

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00698

Initial Pressure (psig): -1.96 Final Pressure (psig): 5.48

Container Dilution Factor: 1.58

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.21</b>	1.1	0.39	0.17	<b>J</b>
75-27-4	Bromodichloromethane	0.10	0.31	0.10	0.045	<b>U</b>
79-01-6	Trichloroethene	0.12	0.37	0.12	0.053	<b>U</b>
123-91-1	1,4-Dioxane	0.19	0.57	0.19	0.069	<b>U</b>
142-82-5	n-Heptane	<b>0.14</b>	0.50	0.31	0.082	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>0.096</b>	0.96	0.16	0.070	<b>J</b>
108-88-3	Toluene	<b>0.47</b>	0.55	0.18	0.068	<b>J</b>
591-78-6	2-Hexanone	<b>0.20</b>	0.96	0.16	0.064	<b>J</b>
124-48-1	Dibromochloromethane	0.079	0.24	0.079	0.032	<b>U</b>
106-93-4	1,2-Dibromoethane	0.087	0.27	0.087	0.032	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.10</b>	0.30	0.099	0.040	<b>J</b>
100-41-4	Ethylbenzene	0.15	0.47	0.15	0.068	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.14</b>	0.91	0.31	0.13	<b>J</b>
75-25-2	Bromoform	0.12	0.20	0.12	0.042	<b>U</b>
100-42-5	Styrene	<b>0.20</b>	0.48	0.30	0.080	<b>J</b>
95-47-6	o-Xylene	0.15	0.48	0.15	0.070	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.14	0.43	0.14	0.062	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.14	0.42	0.14	0.059	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	0.17	0.53	0.17	0.069	<b>U</b>
91-20-3	Naphthalene	0.23	0.39	0.23	0.098	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.14</b>	0.91	0.31	0.13	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00517

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0090 Liter(s)

Initial Pressure (psig): -3.14    Final Pressure (psig): 5.53  
 Initial Pressure 2 (psig): 0.00    Final Pressure 2 (psig): 4.99

Container Dilution Factor: 2.34

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	320	79	48	20	
75-71-8	Dichlorodifluoromethane (CFC 12)	34	27	17	4.6	
74-87-3	Chloromethane	40	65	40	11	U
75-01-4	Vinyl Chloride	17	54	17	5.8	U
106-99-0	1,3-Butadiene	38	61	38	10	U
75-00-3	Chloroethane	32	51	32	6.5	U
64-17-5	Ethanol	110	730	110	51	U
67-64-1	Acetone	300	570	300	130	U
75-69-4	Trichlorofluoromethane	15	24	15	3.7	U
67-63-0	2-Propanol (Isopropyl Alcohol)	67	110	67	23	U
75-09-2	Methylene Chloride	24	39	24	11	U
76-13-1	Trichlorotrifluoroethane	5.8	18	5.8	2.6	U
75-15-0	Carbon Disulfide	45	84	45	13	U
75-34-3	1,1-Dichloroethane	21	35	21	5.0	U
78-93-3	2-Butanone (MEK)	28	88	28	9.7	U
141-78-6	Ethyl Acetate	47	72	47	20	U, L
110-54-3	n-Hexane	410	38	24	8.1	
67-66-3	Chloroform	9.1	28	9.1	3.8	U
109-99-9	Tetrahydrofuran (THF)	15	88	15	5.9	U
107-06-2	1,2-Dichloroethane	11	33	11	3.8	U
71-43-2	Benzene	390	42	14	6.3	
56-23-5	Carbon Tetrachloride	7.0	21	7.0	3.1	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00517

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0090 Liter(s)

Initial Pressure (psig): -3.14    Final Pressure (psig): 5.53  
 Initial Pressure 2 (psig): 0.00    Final Pressure 2 (psig): 4.99

Container Dilution Factor: 2.34

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1,700</b>	76	26	11	
75-27-4	Bromodichloromethane	6.6	20	6.6	3.0	U
79-01-6	Trichloroethene	8.2	25	8.2	3.5	U
123-91-1	1,4-Dioxane	12	38	12	4.5	U
142-82-5	n-Heptane	<b>16</b>	33	20	5.4	J
108-10-1	4-Methyl-2-pentanone	11	63	11	4.6	U
108-88-3	Toluene	<b>170</b>	36	12	4.5	
591-78-6	2-Hexanone	11	63	11	4.2	U
124-48-1	Dibromochloromethane	5.2	16	5.2	2.1	U
106-93-4	1,2-Dibromoethane	5.8	18	5.8	2.1	U
127-18-4	Tetrachloroethene	6.5	20	6.5	2.6	U
100-41-4	Ethylbenzene	10	31	10	4.5	U
179601-23-1	m,p-Xylenes	<b>12</b>	60	20	8.4	J
75-25-2	Bromoform	8.1	13	8.1	2.8	U
100-42-5	Styrene	20	32	20	5.3	U
95-47-6	o-Xylene	<b>20</b>	32	10	4.6	J
108-67-8	1,3,5-Trimethylbenzene	<b>8.1</b>	28	9.0	4.1	J
95-63-6	1,2,4-Trimethylbenzene	9.0	28	9.0	3.9	U
120-82-1	1,2,4-Trichlorobenzene	11	35	11	4.6	U
91-20-3	Naphthalene	15	26	15	6.5	U
1330-20-7	Xylenes, Total	<b>32</b>	60	20	8.4	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00610

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0025 Liter(s)

Initial Pressure (psig): -1.88 Final Pressure (psig): 5.59

Container Dilution Factor: 1.58

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3,300	190	120	48	
75-71-8	Dichlorodifluoromethane (CFC 12)	61	66	41	11	J
74-87-3	Chloromethane	98	160	98	26	U
75-01-4	Vinyl Chloride	42	130	42	14	U
106-99-0	1,3-Butadiene	91	150	91	25	U
75-00-3	Chloroethane	77	120	77	16	U
64-17-5	Ethanol	280	1,800	280	120	U
67-64-1	Acetone	720	1,400	720	320	U
75-69-4	Trichlorofluoromethane	36	57	36	9.1	U
67-63-0	2-Propanol (Isopropyl Alcohol)	84	260	160	57	J
75-09-2	Methylene Chloride	58	95	58	27	U
76-13-1	Trichlorotrifluoroethane	14	44	14	6.3	U
75-15-0	Carbon Disulfide	49	200	110	32	J
75-34-3	1,1-Dichloroethane	52	84	52	12	U
78-93-3	2-Butanone (MEK)	40	210	69	24	J
141-78-6	Ethyl Acetate	110	180	110	49	U, L
110-54-3	n-Hexane	13,000	93	57	20	
67-66-3	Chloroform	22	69	22	9.2	U
109-99-9	Tetrahydrofuran (THF)	40	210	36	14	J
107-06-2	1,2-Dichloroethane	27	81	27	9.2	U
71-43-2	Benzene	11,000	100	34	15	
56-23-5	Carbon Tetrachloride	17	51	17	7.4	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00610

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0025 Liter(s)

Initial Pressure (psig): -1.88 Final Pressure (psig): 5.59

Container Dilution Factor: 1.58

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>14,000</b>	180	62	28	
75-27-4	Bromodichloromethane	16	49	16	7.3	U
79-01-6	Trichloroethene	20	60	20	8.5	U
123-91-1	1,4-Dioxane	30	91	30	11	U
142-82-5	n-Heptane	<b>9,500</b>	80	49	13	
108-10-1	4-Methyl-2-pentanone	26	150	26	11	U
108-88-3	Toluene	<b>15,000</b>	87	29	11	
591-78-6	2-Hexanone	26	150	26	10	U
124-48-1	Dibromochloromethane	13	39	13	5.2	U
106-93-4	1,2-Dibromoethane	<b>21</b>	43	14	5.1	J
127-18-4	Tetrachloroethene	16	48	16	6.4	U
100-41-4	Ethylbenzene	<b>990</b>	76	25	11	
179601-23-1	m,p-Xylenes	<b>4,000</b>	150	49	20	
75-25-2	Bromoform	20	32	20	6.7	U
100-42-5	Styrene	48	77	48	13	U
95-47-6	o-Xylene	<b>1,800</b>	77	25	11	
108-67-8	1,3,5-Trimethylbenzene	<b>800</b>	68	22	9.9	
95-63-6	1,2,4-Trimethylbenzene	<b>880</b>	67	22	9.5	
120-82-1	1,2,4-Trichlorobenzene	27	85	27	11	U
91-20-3	Naphthalene	37	63	37	16	U
1330-20-7	Xylenes, Total	<b>5,800</b>	150	49	20	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201025-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201025-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U, L
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 10/13/20

Analyst: Simon Cao/Topacio De Leon/Wida Ang

Date(s) Received: 10/19/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 10/25 - 11/2/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201025-MB	95	101	113	70-130	
Method Blank	P201102-MB	93	107	106	70-130	
Lab Control Sample	P201025-LCS	93	98	113	70-130	
Lab Control Sample	P201102-LCS	94	101	104	70-130	
Duplicate Lab Control Sample	P201025-DLCS	93	99	114	70-130	
Duplicate Lab Control Sample	P201102-DLCS	94	101	105	70-130	
SV109-025-204	P2005893-001	95	101	116	70-130	
SV109-050-204	P2005893-002	95	101	116	70-130	
SV109-150-204	P2005893-003	96	100	116	70-130	
SV109-250-204	P2005893-004	95	101	116	70-130	
SV109-350-204	P2005893-005	95	101	116	70-130	
SV109-450-204	P2005893-006	93	101	116	70-130	
SV109-450-604	P2005893-007	95	100	117	70-130	
SV110-025-204	P2005893-008	94	100	115	70-130	
SV110-050-204	P2005893-009	91	100	115	70-130	
SV110-150-204	P2005893-010	94	100	98	70-130	
SV110-250-204	P2005893-011	93	107	107	70-130	
SV110-250-604	P2005893-012	93	101	99	70-130	
SV110-350-204	P2005893-013	93	98	104	70-130	
SV110-450-204	P2005893-014	97	102	99	70-130	
SV113-020-204	P2005893-015	93	106	107	70-130	
SV113-050-204	P2005893-016	94	110	104	70-130	
SV113-150-204	P2005893-017	93	103	106	70-130	
SV113-250-204	P2005893-018	94	104	104	70-130	
SV113-350-204	P2005893-019	93	104	108	70-130	
SV113-450-204	P2005893-020	94	100	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201025-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	122	95.3	92.2	78	76	57-136	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	34.6	33.5	81	79	59-128	3	25	
74-87-3	Chloromethane	99.8	80.2	80.0	80	80	59-132	0	25	
75-01-4	Vinyl Chloride	81.4	67.0	67.1	82	82	64-127	0	25	
106-99-0	1,3-Butadiene	95.0	84.9	83.4	89	88	66-134	1	25	
75-00-3	Chloroethane	77.3	64.4	63.1	83	82	63-127	1	25	
64-17-5	Ethanol	530	383	379	72	72	59-125	0	25	
67-64-1	Acetone	435	327	320	75	74	58-128	1	25	
75-69-4	Trichlorofluoromethane	36.3	28.7	28.1	79	77	62-126	3	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	143	141	86	85	52-125	1	25	
75-09-2	Methylene Chloride	59.9	49.5	48.8	83	81	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	27.9	24.1	24.0	86	86	66-126	0	25	
75-15-0	Carbon Disulfide	137	103	102	75	74	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	41.6	41.2	79	79	68-126	0	25	
78-93-3	2-Butanone (MEK)	140	127	126	91	90	67-130	1	25	
141-78-6	Ethyl Acetate	117	131	130	112	111	65-128	0.9	25	
110-54-3	n-Hexane	60.2	46.3	46.1	77	77	63-120	0	25	
67-66-3	Chloroform	43.8	34.1	33.9	78	77	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	136	108	108	79	79	64-123	0	25	
107-06-2	1,2-Dichloroethane	51.4	43.0	43.1	84	84	65-128	0	25	
71-43-2	Benzene	63.9	52.4	51.9	82	81	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	25.8	25.7	77	77	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201025-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		ppbV	ppbV	ppbV	ppbV					
110-82-7	Cyclohexane	121	101	100		<b>83</b>	<b>83</b>	70-117	0	25
75-27-4	Bromodichloromethane	31.4	26.3	26.1		<b>84</b>	<b>83</b>	72-128	1	25
79-01-6	Trichloroethene	38.3	33.3	33.3		<b>87</b>	<b>87</b>	71-123	0	25
123-91-1	1,4-Dioxane	57.7	54.0	53.8		<b>94</b>	<b>93</b>	71-122	1	25
142-82-5	n-Heptane	51.3	42.2	42.0		<b>82</b>	<b>82</b>	69-123	0	25
108-10-1	4-Methyl-2-pentanone	102	92.5	92.4		<b>91</b>	<b>91</b>	67-130	0	25
108-88-3	Toluene	54.7	44.4	44.8		<b>81</b>	<b>82</b>	66-119	1	25
591-78-6	2-Hexanone	98.7	94.0	94.3		<b>95</b>	<b>96</b>	62-128	1	25
124-48-1	Dibromochloromethane	24.7	22.2	22.3		<b>90</b>	<b>90</b>	70-130	0	25
106-93-4	1,2-Dibromoethane	27.1	24.8	24.8		<b>92</b>	<b>92</b>	74-122	0	25
127-18-4	Tetrachloroethene	30.4	26.5	26.8		<b>87</b>	<b>88</b>	66-124	1	25
100-41-4	Ethylbenzene	47.4	39.7	40.0		<b>84</b>	<b>84</b>	70-124	0	25
179601-23-1	m,p-Xylenes	94.9	77.3	77.6		<b>81</b>	<b>82</b>	61-134	1	25
75-25-2	Bromoform	20.1	19.3	19.3		<b>96</b>	<b>96</b>	66-139	0	25
100-42-5	Styrene	48.4	44.7	44.9		<b>92</b>	<b>93</b>	73-127	1	25
95-47-6	o-Xylene	47.4	39.6	39.9		<b>84</b>	<b>84</b>	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	41.9	34.3	34.5		<b>82</b>	<b>82</b>	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	41.5	35.8	36.1		<b>86</b>	<b>87</b>	66-132	1	25
120-82-1	1,2,4-Trichlorobenzene	52.3	50.5	50.8		<b>97</b>	<b>97</b>	55-142	0	25
91-20-3	Naphthalene	37.8	37.8	38.3		<b>100</b>	<b>101</b>	57-138	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	122	108	106	89	87	57-136	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	37.4	36.4	88	86	59-128	2	25	
74-87-3	Chloromethane	99.8	90.7	91.9	91	92	59-132	1	25	
75-01-4	Vinyl Chloride	81.4	78.7	78.7	97	97	64-127	0	25	
106-99-0	1,3-Butadiene	95.0	95.1	93.8	100	99	66-134	1	25	
75-00-3	Chloroethane	77.3	72.1	71.5	93	92	63-127	1	25	
64-17-5	Ethanol	530	436	435	82	82	59-125	0	25	
67-64-1	Acetone	435	373	369	86	85	58-128	1	25	
75-69-4	Trichlorofluoromethane	36.3	30.8	30.3	85	83	62-126	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	158	157	95	95	52-125	0	25	
75-09-2	Methylene Chloride	59.9	55.1	54.7	92	91	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	27.9	25.8	25.6	92	92	66-126	0	25	
75-15-0	Carbon Disulfide	137	116	115	85	84	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	46.7	46.0	89	88	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	144	143	103	102	67-130	1	25	
141-78-6	Ethyl Acetate	117	155	150	132	128	65-128	3	25	L
110-54-3	n-Hexane	60.2	53.6	53.1	89	88	63-120	1	25	
67-66-3	Chloroform	43.8	37.6	37.2	86	85	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	136	123	122	90	90	64-123	0	25	
107-06-2	1,2-Dichloroethane	51.4	50.0	46.8	97	91	65-128	6	25	
71-43-2	Benzene	63.9	58.8	57.2	92	90	69-119	2	25	
56-23-5	Carbon Tetrachloride	33.4	27.2	26.9	81	81	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.  
 L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	121	115	109	95	90	70-117	5	25	
75-27-4	Bromodichloromethane	31.4	29.7	28.1	95	89	72-128	7	25	
79-01-6	Trichloroethene	38.3	35.6	35.5	93	93	71-123	0	25	
123-91-1	1,4-Dioxane	57.7	61.0	57.9	106	100	71-122	6	25	
142-82-5	n-Heptane	51.3	50.1	46.8	98	91	69-123	7	25	
108-10-1	4-Methyl-2-pentanone	102	99.4	102	97	100	67-130	3	25	
108-88-3	Toluene	54.7	49.9	49.8	91	91	66-119	0	25	
591-78-6	2-Hexanone	98.7	107	107	108	108	62-128	0	25	
124-48-1	Dibromochloromethane	24.7	24.3	24.2	98	98	70-130	0	25	
106-93-4	1,2-Dibromoethane	27.1	27.6	27.5	102	101	74-122	1	25	
127-18-4	Tetrachloroethene	30.4	28.7	28.7	94	94	66-124	0	25	
100-41-4	Ethylbenzene	47.4	44.6	44.5	94	94	70-124	0	25	
179601-23-1	m,p-Xylenes	94.9	86.3	85.7	91	90	61-134	1	25	
75-25-2	Bromoform	20.1	20.6	20.6	102	102	66-139	0	25	
100-42-5	Styrene	48.4	50.2	49.9	104	103	73-127	1	25	
95-47-6	o-Xylene	47.4	44.1	44.0	93	93	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	37.7	37.6	90	90	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	39.5	39.4	95	95	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	51.3	51.1	98	98	55-142	0	25	
91-20-3	Naphthalene	37.8	38.7	38.5	102	102	57-138	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01043

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.83 Final Pressure (psig): 6.23

Container Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.3	2.1	1.3	0.53	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.3</b>	2.1	1.3	0.35	
74-87-3	Chloromethane	1.3	2.1	1.3	0.35	U
75-01-4	Vinyl Chloride	0.69	2.2	0.69	0.23	U
106-99-0	1,3-Butadiene	1.3	2.1	1.3	0.36	U
75-00-3	Chloroethane	1.3	2.1	1.3	0.27	U
64-17-5	Ethanol	<b>6.7</b>	22	3.4	1.5	J
67-64-1	Acetone	<b>8.8</b>	21	11	4.9	J
75-69-4	Trichlorofluoromethane	<b>1.2</b>	2.1	1.3	0.33	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.6	4.1	2.6	0.90	U
75-09-2	Methylene Chloride	<b>0.84</b>	2.1	1.3	0.61	J
76-13-1	Trichlorotrifluoroethane	<b>7.0</b>	2.2	0.69	0.31	
75-15-0	Carbon Disulfide	2.2	4.1	2.2	0.65	U
75-34-3	1,1-Dichloroethane	1.3	2.2	1.3	0.32	U
78-93-3	2-Butanone (MEK)	<b>2.5</b>	4.1	1.3	0.45	J
141-78-6	Ethyl Acetate	<b>11</b>	4.1	2.6	1.1	
110-54-3	n-Hexane	<b>3.0</b>	2.1	1.3	0.45	
67-66-3	Chloroform	0.69	2.2	0.69	0.29	U
109-99-9	Tetrahydrofuran (THF)	0.69	4.1	0.69	0.27	U
107-06-2	1,2-Dichloroethane	0.69	2.1	0.69	0.24	U
71-43-2	Benzene	<b>0.54</b>	2.1	0.69	0.31	J
56-23-5	Carbon Tetrachloride	0.69	2.1	0.69	0.30	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01043

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.83 Final Pressure (psig): 6.23

Container Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1.3</b>	4.1	1.4	0.61	<b>J</b>
75-27-4	Bromodichloromethane	0.69	2.1	0.69	0.31	<b>U</b>
79-01-6	Trichloroethene	0.69	2.1	0.69	0.29	<b>U</b>
123-91-1	1,4-Dioxane	0.69	2.1	0.69	0.26	<b>U</b>
142-82-5	n-Heptane	<b>6.2</b>	2.1	1.3	0.35	
108-10-1	4-Methyl-2-pentanone	0.69	4.1	0.69	0.30	<b>U</b>
108-88-3	Toluene	<b>2.6</b>	2.1	0.69	0.26	
591-78-6	2-Hexanone	0.69	4.1	0.69	0.27	<b>U</b>
124-48-1	Dibromochloromethane	0.69	2.1	0.69	0.29	<b>U</b>
106-93-4	1,2-Dibromoethane	0.69	2.1	0.69	0.25	<b>U</b>
127-18-4	Tetrachloroethene	<b>3.0</b>	2.1	0.69	0.28	
100-41-4	Ethylbenzene	0.69	2.1	0.69	0.31	<b>U</b>
179601-23-1	m,p-Xylenes	<b>1.5</b>	4.1	1.4	0.57	<b>J</b>
75-25-2	Bromoform	1.3	2.2	1.3	0.45	<b>U</b>
100-42-5	Styrene	1.3	2.1	1.3	0.35	<b>U</b>
95-47-6	o-Xylene	<b>0.50</b>	2.2	0.69	0.31	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.69	2.2	0.69	0.31	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.73</b>	2.1	0.69	0.30	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.3	4.1	1.3	0.53	<b>U</b>
91-20-3	Naphthalene	1.3	2.1	1.3	0.53	<b>U</b>
1330-20-7	Xylenes, Total	<b>2.0</b>	4.1	1.4	0.57	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00461

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.51 Final Pressure (psig): 5.89

Container Dilution Factor: 1.69

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.88</b>	2.2	1.4	0.55	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>44</b>	2.2	1.4	0.37	
74-87-3	Chloromethane	1.4	2.2	1.4	0.36	<b>U</b>
75-01-4	Vinyl Chloride	0.72	2.2	0.72	0.24	<b>U</b>
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.37	<b>U</b>
75-00-3	Chloroethane	1.4	2.2	1.4	0.28	<b>U</b>
64-17-5	Ethanol	<b>2.2</b>	22	3.5	1.6	<b>J</b>
67-64-1	Acetone	11	22	11	5.1	<b>U</b>
75-69-4	Trichlorofluoromethane	<b>3.4</b>	2.2	1.4	0.34	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.2	2.7	0.93	<b>U</b>
75-09-2	Methylene Chloride	1.4	2.2	1.4	0.63	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>100</b>	2.2	0.72	0.32	
75-15-0	Carbon Disulfide	<b>1.9</b>	4.2	2.3	0.68	<b>J</b>
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.33	<b>U</b>
78-93-3	2-Butanone (MEK)	1.4	4.2	1.4	0.46	<b>U</b>
141-78-6	Ethyl Acetate	2.7	4.2	2.7	1.2	<b>U</b>
110-54-3	n-Hexane	<b>1.8</b>	2.2	1.4	0.46	<b>J</b>
67-66-3	Chloroform	<b>0.55</b>	2.2	0.72	0.30	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>4.5</b>	4.2	0.72	0.28	
107-06-2	1,2-Dichloroethane	0.72	2.2	0.72	0.25	<b>U</b>
71-43-2	Benzene	<b>0.84</b>	2.2	0.72	0.33	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>17</b>	2.2	0.72	0.31	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00461

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.51 Final Pressure (psig): 5.89

Container Dilution Factor: 1.69

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.4	4.2	1.4	0.63	U
75-27-4	Bromodichloromethane	0.72	2.2	0.72	0.33	U
79-01-6	Trichloroethene	<b>190</b>	2.2	0.72	0.30	
123-91-1	1,4-Dioxane	0.72	2.2	0.72	0.27	U
142-82-5	n-Heptane	<b>3.4</b>	2.2	1.4	0.36	
108-10-1	4-Methyl-2-pentanone	0.72	4.2	0.72	0.31	U
108-88-3	Toluene	<b>0.87</b>	2.2	0.72	0.27	J
591-78-6	2-Hexanone	0.72	4.2	0.72	0.28	U
124-48-1	Dibromochloromethane	0.72	2.2	0.72	0.30	U
106-93-4	1,2-Dibromoethane	0.72	2.2	0.72	0.26	U
127-18-4	Tetrachloroethene	<b>17</b>	2.2	0.72	0.29	
100-41-4	Ethylbenzene	0.72	2.2	0.72	0.32	U
179601-23-1	m,p-Xylenes	<b>0.71</b>	4.2	1.4	0.59	J
75-25-2	Bromoform	1.4	2.2	1.4	0.46	U
100-42-5	Styrene	1.4	2.2	1.4	0.36	U
95-47-6	o-Xylene	0.72	2.2	0.72	0.33	U
108-67-8	1,3,5-Trimethylbenzene	0.72	2.2	0.72	0.33	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.34</b>	2.2	0.72	0.31	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.2	1.4	0.55	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.55	U
1330-20-7	Xylenes, Total	<b>0.71</b>	4.2	1.4	0.59	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00584

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.42 Final Pressure (psig): 6.01

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.60	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>3.2</b>	2.4	1.5	0.40	
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	0.78	2.4	0.78	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	<b>4.2</b>	24	3.8	1.7	J
67-64-1	Acetone	<b>14</b>	24	12	5.5	J
75-69-4	Trichlorofluoromethane	<b>1.8</b>	2.3	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	<b>25</b>	2.4	0.78	0.35	
75-15-0	Carbon Disulfide	2.5	4.6	2.5	0.74	U
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	<b>4.1</b>	4.6	1.5	0.51	J
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U
110-54-3	n-Hexane	<b>2.2</b>	2.4	1.5	0.51	J
67-66-3	Chloroform	0.78	2.4	0.78	0.33	U
109-99-9	Tetrahydrofuran (THF)	0.78	4.6	0.78	0.31	U
107-06-2	1,2-Dichloroethane	0.78	2.4	0.78	0.27	U
71-43-2	Benzene	<b>0.41</b>	2.4	0.78	0.35	J
56-23-5	Carbon Tetrachloride	<b>0.96</b>	2.3	0.78	0.34	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-150-204

ALS Project ID: P2005893

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005893-003

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00584

Initial Pressure (psig): -3.42 Final Pressure (psig): 6.01

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>0.88</b>	4.6	1.6	0.69	<b>J</b>
75-27-4	Bromodichloromethane	0.78	2.4	0.78	0.35	<b>U</b>
79-01-6	Trichloroethene	<b>0.41</b>	2.3	0.78	0.33	<b>J</b>
123-91-1	1,4-Dioxane	0.78	2.4	0.78	0.29	<b>U</b>
142-82-5	n-Heptane	<b>4.0</b>	2.4	1.5	0.39	
108-10-1	4-Methyl-2-pentanone	0.78	4.6	0.78	0.34	<b>U</b>
108-88-3	Toluene	<b>1.1</b>	2.4	0.78	0.30	<b>J</b>
591-78-6	2-Hexanone	0.78	4.6	0.78	0.30	<b>U</b>
124-48-1	Dibromochloromethane	0.78	2.4	0.78	0.32	<b>U</b>
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.29	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.46</b>	2.4	0.78	0.32	<b>J</b>
100-41-4	Ethylbenzene	0.78	2.4	0.78	0.35	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.87</b>	4.6	1.6	0.64	<b>J</b>
75-25-2	Bromoform	1.5	2.4	1.5	0.51	<b>U</b>
100-42-5	Styrene	1.5	2.4	1.5	0.40	<b>U</b>
95-47-6	o-Xylene	0.78	2.4	0.78	0.35	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.78	2.4	0.78	0.35	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.49</b>	2.4	0.78	0.34	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.60	<b>U</b>
91-20-3	Naphthalene	1.4	2.4	1.4	0.60	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.87</b>	4.6	1.6	0.64	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00761

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.63 Final Pressure (psig): 5.87

Container Dilution Factor: 1.70

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.87</b>	2.2	1.4	0.55	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>27</b>	2.2	1.4	0.37	
74-87-3	Chloromethane	1.4	2.2	1.4	0.37	<b>U</b>
75-01-4	Vinyl Chloride	0.72	2.3	0.72	0.24	<b>U</b>
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.37	<b>U</b>
75-00-3	Chloroethane	1.4	2.2	1.4	0.28	<b>U</b>
64-17-5	Ethanol	<b>1.6</b>	23	3.5	1.6	<b>J</b>
67-64-1	Acetone	11	22	11	5.1	<b>U</b>
75-69-4	Trichlorofluoromethane	<b>3.3</b>	2.2	1.4	0.34	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.3	2.7	0.94	<b>U</b>
75-09-2	Methylene Chloride	1.4	2.2	1.4	0.64	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>230</b>	2.3	0.72	0.32	
75-15-0	Carbon Disulfide	<b>4.2</b>	4.3	2.3	0.68	<b>J</b>
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.33	<b>U</b>
78-93-3	2-Butanone (MEK)	1.4	4.3	1.4	0.47	<b>U</b>
141-78-6	Ethyl Acetate	2.8	4.3	2.8	1.2	<b>U</b>
110-54-3	n-Hexane	<b>1.7</b>	2.2	1.4	0.47	<b>J</b>
67-66-3	Chloroform	<b>2.9</b>	2.3	0.72	0.30	
109-99-9	Tetrahydrofuran (THF)	<b>9.2</b>	4.3	0.72	0.28	
107-06-2	1,2-Dichloroethane	0.72	2.2	0.72	0.25	<b>U</b>
71-43-2	Benzene	<b>3.2</b>	2.2	0.72	0.33	
56-23-5	Carbon Tetrachloride	<b>24</b>	2.2	0.72	0.31	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-250-204

ALS Project ID: P2005893

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005893-004

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00761

Initial Pressure (psig): -2.63 Final Pressure (psig): 5.87

Container Dilution Factor: 1.70

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.6	4.3	1.4	0.64	J
75-27-4	Bromodichloromethane	0.72	2.2	0.72	0.33	U
79-01-6	Trichloroethene	120	2.2	0.72	0.31	
123-91-1	1,4-Dioxane	0.72	2.2	0.72	0.27	U
142-82-5	n-Heptane	2.8	2.2	1.4	0.36	
108-10-1	4-Methyl-2-pentanone	0.72	4.3	0.72	0.31	U
108-88-3	Toluene	1.3	2.2	0.72	0.28	J
591-78-6	2-Hexanone	0.72	4.3	0.72	0.28	U
124-48-1	Dibromochloromethane	0.72	2.2	0.72	0.30	U
106-93-4	1,2-Dibromoethane	0.72	2.2	0.72	0.26	U
127-18-4	Tetrachloroethene	17	2.2	0.72	0.29	
100-41-4	Ethylbenzene	0.72	2.2	0.72	0.32	U
179601-23-1	m,p-Xylenes	0.75	4.3	1.4	0.60	J
75-25-2	Bromoform	1.4	2.3	1.4	0.47	U
100-42-5	Styrene	1.4	2.2	1.4	0.37	U
95-47-6	o-Xylene	0.72	2.3	0.72	0.33	U
108-67-8	1,3,5-Trimethylbenzene	0.72	2.3	0.72	0.33	U
95-63-6	1,2,4-Trimethylbenzene	0.39	2.2	0.72	0.31	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.3	1.4	0.55	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.55	U
1330-20-7	Xylenes, Total	0.75	4.3	1.4	0.60	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00693

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.09 Final Pressure (psig): 5.67

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>1.0</b>	2.3	1.4	0.57	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>10</b>	2.3	1.4	0.38	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	<b>U</b>
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	<b>U</b>
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	<b>U</b>
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	<b>U</b>
64-17-5	Ethanol	<b>3.1</b>	23	3.6	1.6	<b>J</b>
67-64-1	Acetone	12	23	12	5.3	<b>U</b>
75-69-4	Trichlorofluoromethane	<b>1.3</b>	2.2	1.4	0.35	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.4	2.8	0.96	<b>U</b>
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.66	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>190</b>	2.3	0.74	0.33	
75-15-0	Carbon Disulfide	<b>8.1</b>	4.4	2.4	0.70	
75-34-3	1,1-Dichloroethane	1.4	2.4	1.4	0.34	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>0.65</b>	4.4	1.4	0.48	<b>J</b>
141-78-6	Ethyl Acetate	<b>6.2</b>	4.4	2.8	1.2	
110-54-3	n-Hexane	<b>1.8</b>	2.3	1.4	0.48	<b>J</b>
67-66-3	Chloroform	<b>1.7</b>	2.3	0.74	0.31	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>12</b>	4.4	0.74	0.29	
107-06-2	1,2-Dichloroethane	0.74	2.3	0.74	0.26	<b>U</b>
71-43-2	Benzene	<b>6.6</b>	2.3	0.74	0.34	
56-23-5	Carbon Tetrachloride	<b>10</b>	2.2	0.74	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-350-204

ALS Project ID: P2005893

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005893-005

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00693

Initial Pressure (psig): -3.09 Final Pressure (psig): 5.67

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1.8</b>	4.4	1.5	0.66	<b>J</b>
75-27-4	Bromodichloromethane	0.74	2.3	0.74	0.34	<b>U</b>
79-01-6	Trichloroethene	<b>130</b>	2.2	0.74	0.32	
123-91-1	1,4-Dioxane	0.74	2.3	0.74	0.28	<b>U</b>
142-82-5	n-Heptane	<b>3.0</b>	2.3	1.4	0.37	
108-10-1	4-Methyl-2-pentanone	0.74	4.4	0.74	0.32	<b>U</b>
108-88-3	Toluene	<b>1.5</b>	2.3	0.74	0.28	<b>J</b>
591-78-6	2-Hexanone	0.74	4.4	0.74	0.29	<b>U</b>
124-48-1	Dibromochloromethane	0.74	2.3	0.74	0.31	<b>U</b>
106-93-4	1,2-Dibromoethane	0.74	2.3	0.74	0.27	<b>U</b>
127-18-4	Tetrachloroethene	<b>5.4</b>	2.3	0.74	0.30	
100-41-4	Ethylbenzene	0.74	2.3	0.74	0.33	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.62</b>	4.4	1.5	0.61	<b>J</b>
75-25-2	Bromoform	1.4	2.3	1.4	0.48	<b>U</b>
100-42-5	Styrene	1.4	2.3	1.4	0.38	<b>U</b>
95-47-6	o-Xylene	0.74	2.3	0.74	0.34	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.74	2.3	0.74	0.34	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.32</b>	2.3	0.74	0.32	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.57	<b>U</b>
91-20-3	Naphthalene	1.4	2.3	1.4	0.57	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.62</b>	4.4	1.5	0.61	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00471

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.79 Final Pressure (psig): 5.99

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.5	2.5	1.5	0.62	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.4	2.5	1.5	0.41	J
74-87-3	Chloromethane	19	2.5	1.5	0.41	
75-01-4	Vinyl Chloride	7.1	2.5	0.81	0.27	
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	5.6	2.5	1.5	0.31	
64-17-5	Ethanol	3.9	25	3.9	1.8	U
67-64-1	Acetone	19	25	13	5.7	J
75-69-4	Trichlorofluoromethane	1.5	2.4	1.5	0.38	U
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	6.2	2.5	0.81	0.36	
75-15-0	Carbon Disulfide	72	4.8	2.6	0.76	
75-34-3	1,1-Dichloroethane	4.2	2.6	1.6	0.37	
78-93-3	2-Butanone (MEK)	4.8	4.8	1.5	0.52	
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	6.8	2.5	1.5	0.52	
67-66-3	Chloroform	0.81	2.5	0.81	0.34	U
109-99-9	Tetrahydrofuran (THF)	22	4.8	0.81	0.32	
107-06-2	1,2-Dichloroethane	2.2	2.5	0.81	0.28	J
71-43-2	Benzene	5.9	2.5	0.81	0.37	
56-23-5	Carbon Tetrachloride	1.5	2.4	0.81	0.35	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00471

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.79 Final Pressure (psig): 5.99

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>2.3</b>	4.8	1.6	0.71	<b>J</b>
75-27-4	Bromodichloromethane	0.81	2.5	0.81	0.37	<b>U</b>
79-01-6	Trichloroethene	<b>8.6</b>	2.4	0.81	0.34	
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	<b>U</b>
142-82-5	n-Heptane	<b>11</b>	2.5	1.5	0.40	
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	<b>U</b>
108-88-3	Toluene	<b>16</b>	2.5	0.81	0.31	
591-78-6	2-Hexanone	0.81	4.8	0.81	0.31	<b>U</b>
124-48-1	Dibromochloromethane	0.81	2.5	0.81	0.33	<b>U</b>
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.29	<b>U</b>
127-18-4	Tetrachloroethene	<b>1.0</b>	2.5	0.81	0.33	<b>J</b>
100-41-4	Ethylbenzene	<b>0.61</b>	2.5	0.81	0.36	<b>J</b>
179601-23-1	m,p-Xylenes	<b>3.0</b>	4.8	1.6	0.67	<b>J</b>
75-25-2	Bromoform	1.5	2.5	1.5	0.52	<b>U</b>
100-42-5	Styrene	1.5	2.5	1.5	0.41	<b>U</b>
95-47-6	o-Xylene	<b>0.87</b>	2.5	0.81	0.37	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.81	2.5	0.81	0.37	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>1.1</b>	2.5	0.81	0.35	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	<b>U</b>
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	<b>U</b>
1330-20-7	Xylenes, Total	<b>3.9</b>	4.8	1.6	0.67	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00562

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.57 Final Pressure (psig): 6.26

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	4.2	2.2	1.4	0.56	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.3	2.2	1.4	0.38	J
74-87-3	Chloromethane	21	2.2	1.4	0.37	
75-01-4	Vinyl Chloride	8.2	2.3	0.74	0.25	
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.38	U
75-00-3	Chloroethane	6.8	2.2	1.4	0.29	
64-17-5	Ethanol	4.9	23	3.6	1.6	J
67-64-1	Acetone	21	22	12	5.2	J
75-69-4	Trichlorofluoromethane	1.4	2.2	1.4	0.35	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.3	2.7	0.95	U
75-09-2	Methylene Chloride	1.4	2.2	1.4	0.65	U
76-13-1	Trichlorotrifluoroethane	6.9	2.3	0.74	0.33	
75-15-0	Carbon Disulfide	81	4.3	2.3	0.69	
75-34-3	1,1-Dichloroethane	4.8	2.3	1.4	0.34	
78-93-3	2-Butanone (MEK)	11	4.3	1.4	0.48	
141-78-6	Ethyl Acetate	2.8	4.3	2.8	1.2	U
110-54-3	n-Hexane	2.7	2.2	1.4	0.48	
67-66-3	Chloroform	0.74	2.3	0.74	0.31	U
109-99-9	Tetrahydrofuran (THF)	24	4.3	0.74	0.29	
107-06-2	1,2-Dichloroethane	2.6	2.2	0.74	0.26	
71-43-2	Benzene	6.3	2.2	0.74	0.33	
56-23-5	Carbon Tetrachloride	1.7	2.2	0.74	0.32	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV109-450-604

ALS Project ID: P2005893

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005893-007

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00562

Initial Pressure (psig): -2.57 Final Pressure (psig): 6.26

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1.6</b>	4.3	1.5	0.65	<b>J</b>
75-27-4	Bromodichloromethane	0.74	2.2	0.74	0.33	<b>U</b>
79-01-6	Trichloroethene	<b>9.6</b>	2.2	0.74	0.31	
123-91-1	1,4-Dioxane	<b>1.9</b>	2.2	0.74	0.27	<b>J</b>
142-82-5	n-Heptane	<b>3.2</b>	2.2	1.4	0.37	
108-10-1	4-Methyl-2-pentanone	0.74	4.3	0.74	0.32	<b>U</b>
108-88-3	Toluene	<b>16</b>	2.2	0.74	0.28	
591-78-6	2-Hexanone	<b>2.2</b>	4.3	0.74	0.29	<b>J</b>
124-48-1	Dibromochloromethane	0.74	2.2	0.74	0.30	<b>U</b>
106-93-4	1,2-Dibromoethane	0.74	2.2	0.74	0.27	<b>U</b>
127-18-4	Tetrachloroethene	<b>1.1</b>	2.2	0.74	0.30	<b>J</b>
100-41-4	Ethylbenzene	<b>0.62</b>	2.2	0.74	0.32	<b>J</b>
179601-23-1	m,p-Xylenes	<b>2.4</b>	4.3	1.5	0.61	<b>J</b>
75-25-2	Bromoform	1.4	2.3	1.4	0.48	<b>U</b>
100-42-5	Styrene	1.4	2.2	1.4	0.37	<b>U</b>
95-47-6	o-Xylene	<b>0.77</b>	2.3	0.74	0.33	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.74	2.3	0.74	0.33	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.67</b>	2.2	0.74	0.32	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.4	4.3	1.4	0.56	<b>U</b>
91-20-3	Naphthalene	1.3	2.2	1.3	0.56	<b>U</b>
1330-20-7	Xylenes, Total	<b>3.2</b>	4.3	1.5	0.61	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00875

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.81 Final Pressure (psig): 6.18

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.53</b>	2.1	1.3	0.53	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>3.7</b>	2.1	1.3	0.35	
74-87-3	Chloromethane	1.3	2.1	1.3	0.35	<b>U</b>
75-01-4	Vinyl Chloride	0.69	2.1	0.69	0.23	<b>U</b>
106-99-0	1,3-Butadiene	1.3	2.1	1.3	0.36	<b>U</b>
75-00-3	Chloroethane	1.3	2.1	1.3	0.27	<b>U</b>
64-17-5	Ethanol	<b>3.2</b>	21	3.4	1.5	<b>J</b>
67-64-1	Acetone	<b>11</b>	21	11	4.9	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>1.2</b>	2.1	1.3	0.33	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.6	4.1	2.6	0.89	<b>U</b>
75-09-2	Methylene Chloride	1.3	2.1	1.3	0.61	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>5.8</b>	2.1	0.69	0.31	
75-15-0	Carbon Disulfide	<b>4.9</b>	4.1	2.2	0.65	
75-34-3	1,1-Dichloroethane	1.3	2.2	1.3	0.32	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.7</b>	4.1	1.3	0.45	<b>J</b>
141-78-6	Ethyl Acetate	2.6	4.1	2.6	1.1	<b>U</b>
110-54-3	n-Hexane	1.3	2.1	1.3	0.45	<b>U</b>
67-66-3	Chloroform	0.69	2.1	0.69	0.29	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	0.69	4.1	0.69	0.27	<b>U</b>
107-06-2	1,2-Dichloroethane	0.69	2.1	0.69	0.24	<b>U</b>
71-43-2	Benzene	0.69	2.1	0.69	0.31	<b>U</b>
56-23-5	Carbon Tetrachloride	<b>4.2</b>	2.1	0.69	0.30	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-008

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00875

Initial Pressure (psig): -1.81 Final Pressure (psig): 6.18

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.4	4.1	1.4	0.61	U
75-27-4	Bromodichloromethane	0.69	2.1	0.69	0.31	U
79-01-6	Trichloroethene	0.69	2.1	0.69	0.29	U
123-91-1	1,4-Dioxane	0.69	2.1	0.69	0.26	U
142-82-5	n-Heptane	1.3	2.1	1.3	0.34	U
108-10-1	4-Methyl-2-pentanone	0.69	4.1	0.69	0.30	U
108-88-3	Toluene	<b>0.51</b>	2.1	0.69	0.26	J
591-78-6	2-Hexanone	0.69	4.1	0.69	0.27	U
124-48-1	Dibromochloromethane	0.69	2.1	0.69	0.28	U
106-93-4	1,2-Dibromoethane	0.69	2.1	0.69	0.25	U
127-18-4	Tetrachloroethene	<b>1.2</b>	2.1	0.69	0.28	J
100-41-4	Ethylbenzene	0.69	2.1	0.69	0.30	U
179601-23-1	m,p-Xylenes	1.4	4.1	1.4	0.57	U
75-25-2	Bromoform	1.3	2.1	1.3	0.45	U
100-42-5	Styrene	1.3	2.1	1.3	0.35	U
95-47-6	o-Xylene	0.69	2.1	0.69	0.31	U
108-67-8	1,3,5-Trimethylbenzene	0.69	2.1	0.69	0.31	U
95-63-6	1,2,4-Trimethylbenzene	0.69	2.1	0.69	0.30	U
120-82-1	1,2,4-Trichlorobenzene	1.3	4.1	1.3	0.53	U
91-20-3	Naphthalene	1.3	2.1	1.3	0.53	U
1330-20-7	Xylenes, Total	1.4	4.1	1.4	0.57	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00313

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 10/25/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.02 Final Pressure (psig): 5.71

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.77</b>	2.5	1.5	0.62	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>11</b>	2.5	1.5	0.42	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	<b>U</b>
75-01-4	Vinyl Chloride	0.81	2.5	0.81	0.27	<b>U</b>
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	<b>U</b>
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	<b>U</b>
64-17-5	Ethanol	<b>8.9</b>	25	4.0	1.8	<b>J</b>
67-64-1	Acetone	<b>35</b>	25	13	5.7	
75-69-4	Trichlorofluoromethane	<b>1.9</b>	2.4	1.5	0.39	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>2.2</b>	4.8	3.0	1.1	<b>J</b>
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>30</b>	2.5	0.81	0.36	
75-15-0	Carbon Disulfide	<b>4.5</b>	4.8	2.6	0.76	<b>J</b>
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>14</b>	4.8	1.5	0.53	
141-78-6	Ethyl Acetate	<b>21</b>	4.8	3.1	1.3	
110-54-3	n-Hexane	1.5	2.5	1.5	0.53	<b>U</b>
67-66-3	Chloroform	<b>0.48</b>	2.5	0.81	0.34	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>3.8</b>	4.8	0.81	0.32	<b>J</b>
107-06-2	1,2-Dichloroethane	0.81	2.5	0.81	0.28	<b>U</b>
71-43-2	Benzene	0.81	2.5	0.81	0.37	<b>U</b>
56-23-5	Carbon Tetrachloride	<b>18</b>	2.4	0.81	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-050-204

ALS Project ID: P2005893

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005893-009

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 10/25/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00313

Initial Pressure (psig): -4.02 Final Pressure (psig): 5.71

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.72	U
75-27-4	Bromodichloromethane	0.81	2.5	0.81	0.37	U
79-01-6	Trichloroethene	<b>1.1</b>	2.4	0.81	0.34	J
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.41	U
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	U
108-88-3	Toluene	<b>0.74</b>	2.5	0.81	0.31	J
591-78-6	2-Hexanone	<b>1.7</b>	4.8	0.81	0.32	J
124-48-1	Dibromochloromethane	0.81	2.5	0.81	0.33	U
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.30	U
127-18-4	Tetrachloroethene	<b>2.9</b>	2.5	0.81	0.33	J
100-41-4	Ethylbenzene	0.81	2.5	0.81	0.36	U
179601-23-1	m,p-Xylenes	<b>0.79</b>	4.8	1.6	0.67	J
75-25-2	Bromoform	1.5	2.5	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.81	2.5	0.81	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.81	2.5	0.81	0.37	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.90</b>	2.5	0.81	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	<b>0.79</b>	4.8	1.6	0.67	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01039

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.00125 Liter(s)

Initial Pressure (psig): -2.24 Final Pressure (psig): 6.03

Container Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>3,100</b>	690	420	170	
75-71-8	Dichlorodifluoromethane (CFC 12)	420	690	420	120	U
74-87-3	Chloromethane	420	690	420	110	U
75-01-4	Vinyl Chloride	230	700	230	76	U
106-99-0	1,3-Butadiene	420	690	420	120	U
75-00-3	Chloroethane	420	690	420	88	U
64-17-5	Ethanol	1,100	7,000	1,100	490	U
67-64-1	Acetone	3,600	6,900	3,600	1,600	U
75-69-4	Trichlorofluoromethane	420	680	420	110	U
67-63-0	2-Propanol (Isopropyl Alcohol)	840	1,300	840	290	U
75-09-2	Methylene Chloride	420	690	420	200	U
76-13-1	Trichlorotrifluoroethane	<b>130</b>	700	230	100	J
75-15-0	Carbon Disulfide	720	1,300	720	210	U
75-34-3	1,1-Dichloroethane	440	720	440	100	U
78-93-3	2-Butanone (MEK)	420	1,300	420	150	U
141-78-6	Ethyl Acetate	860	1,300	860	370	U, L
110-54-3	n-Hexane	<b>98,000</b>	690	420	150	
67-66-3	Chloroform	230	700	230	94	U
109-99-9	Tetrahydrofuran (THF)	230	1,300	230	89	U
107-06-2	1,2-Dichloroethane	230	690	230	78	U
71-43-2	Benzene	<b>3,900</b>	690	230	100	
56-23-5	Carbon Tetrachloride	230	680	230	98	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-010

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00125 Liter(s)

Test Notes:

Container ID: 1SS01039

Initial Pressure (psig): -2.24 Final Pressure (psig): 6.03

Container Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>140,000</b>	1,300	450	200	
75-27-4	Bromodichloromethane	230	690	230	100	U
79-01-6	Trichloroethene	230	680	230	96	U
123-91-1	1,4-Dioxane	230	690	230	84	U
142-82-5	n-Heptane	<b>27,000</b>	690	420	110	
108-10-1	4-Methyl-2-pentanone	230	1,300	230	97	U
108-88-3	Toluene	<b>380</b>	690	230	86	J
591-78-6	2-Hexanone	230	1,300	230	88	U
124-48-1	Dibromochloromethane	230	690	230	93	U
106-93-4	1,2-Dibromoethane	230	690	230	82	U
127-18-4	Tetrachloroethene	230	690	230	92	U
100-41-4	Ethylbenzene	230	690	230	100	U
179601-23-1	m,p-Xylenes	450	1,300	450	190	U
75-25-2	Bromoform	420	700	420	150	U
100-42-5	Styrene	420	690	420	110	U
95-47-6	o-Xylene	<b>180</b>	700	230	100	J
108-67-8	1,3,5-Trimethylbenzene	230	700	230	100	U
95-63-6	1,2,4-Trimethylbenzene	230	690	230	98	U
120-82-1	1,2,4-Trichlorobenzene	420	1,300	420	170	U
91-20-3	Naphthalene	410	690	410	170	U
1330-20-7	Xylenes, Total	450	1,300	450	190	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00566

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.00010 Liter(s)

Initial Pressure (psig): -3.56 Final Pressure (psig): 5.36

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>18,000</b>	9,400	5,800	2,300	
75-71-8	Dichlorodifluoromethane (CFC 12)	5,800	9,400	5,800	1,600	U
74-87-3	Chloromethane	5,800	9,400	5,800	1,500	U
75-01-4	Vinyl Chloride	3,100	9,500	3,100	1,000	U
106-99-0	1,3-Butadiene	5,800	9,400	5,800	1,600	U
75-00-3	Chloroethane	5,800	9,400	5,800	1,200	U
64-17-5	Ethanol	15,000	95,000	15,000	6,700	U
67-64-1	Acetone	49,000	94,000	49,000	22,000	U
75-69-4	Trichlorofluoromethane	5,800	9,200	5,800	1,500	U
67-63-0	2-Propanol (Isopropyl Alcohol)	11,000	18,000	11,000	4,000	U
75-09-2	Methylene Chloride	5,800	9,400	5,800	2,700	U
76-13-1	Trichlorotrifluoroethane	3,100	9,500	3,100	1,400	U
75-15-0	Carbon Disulfide	9,700	18,000	9,700	2,900	U
75-34-3	1,1-Dichloroethane	5,900	9,700	5,900	1,400	U
78-93-3	2-Butanone (MEK)	5,800	18,000	5,800	2,000	U
141-78-6	Ethyl Acetate	12,000	18,000	12,000	5,000	U, L
110-54-3	n-Hexane	<b>1,500,000</b>	9,400	5,800	2,000	
67-66-3	Chloroform	3,100	9,500	3,100	1,300	U
109-99-9	Tetrahydrofuran (THF)	3,100	18,000	3,100	1,200	U
107-06-2	1,2-Dichloroethane	3,100	9,400	3,100	1,100	U
71-43-2	Benzene	<b>66,000</b>	9,400	3,100	1,400	
56-23-5	Carbon Tetrachloride	3,100	9,200	3,100	1,300	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV110-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-011

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

Container ID: 1SC00566

Initial Pressure (psig): -3.56 Final Pressure (psig): 5.36

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1,200,000</b>	18,000	6,100	2,700	
75-27-4	Bromodichloromethane	3,100	9,400	3,100	1,400	U
79-01-6	Trichloroethene	3,100	9,200	3,100	1,300	U
123-91-1	1,4-Dioxane	3,100	9,400	3,100	1,100	U
142-82-5	n-Heptane	<b>1,300,000</b>	9,400	5,800	1,500	
108-10-1	4-Methyl-2-pentanone	3,100	18,000	3,100	1,300	U
108-88-3	Toluene	<b>80,000</b>	9,400	3,100	1,200	
591-78-6	2-Hexanone	3,100	18,000	3,100	1,200	U
124-48-1	Dibromochloromethane	3,100	9,400	3,100	1,300	U
106-93-4	1,2-Dibromoethane	3,100	9,400	3,100	1,100	U
127-18-4	Tetrachloroethene	3,100	9,400	3,100	1,200	U
100-41-4	Ethylbenzene	3,100	9,400	3,100	1,400	U
179601-23-1	m,p-Xylenes	<b>13,000</b>	18,000	6,100	2,500	J
75-25-2	Bromoform	5,800	9,500	5,800	2,000	U
100-42-5	Styrene	5,800	9,400	5,800	1,500	U
95-47-6	o-Xylene	<b>2,900</b>	9,500	3,100	1,400	J
108-67-8	1,3,5-Trimethylbenzene	3,100	9,500	3,100	1,400	U
95-63-6	1,2,4-Trimethylbenzene	3,100	9,400	3,100	1,300	U
120-82-1	1,2,4-Trichlorobenzene	5,800	18,000	5,800	2,300	U
91-20-3	Naphthalene	5,600	9,400	5,600	2,300	U
1330-20-7	Xylenes, Total	<b>16,000</b>	18,000	6,100	2,500	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00886

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.00010 Liter(s)

Initial Pressure (psig): -1.87 Final Pressure (psig): 5.59

Container Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>16,000</b>	8,200	5,100	2,100	
75-71-8	Dichlorodifluoromethane (CFC 12)	5,100	8,200	5,100	1,400	U
74-87-3	Chloromethane	5,100	8,200	5,100	1,400	U
75-01-4	Vinyl Chloride	2,700	8,400	2,700	900	U
106-99-0	1,3-Butadiene	5,100	8,200	5,100	1,400	U
75-00-3	Chloroethane	5,100	8,200	5,100	1,000	U
64-17-5	Ethanol	13,000	84,000	13,000	5,800	U
67-64-1	Acetone	43,000	82,000	43,000	19,000	U
75-69-4	Trichlorofluoromethane	5,100	8,100	5,100	1,300	U
67-63-0	2-Propanol (Isopropyl Alcohol)	10,000	16,000	10,000	3,500	U
75-09-2	Methylene Chloride	5,100	8,200	5,100	2,400	U
76-13-1	Trichlorotrifluoroethane	2,700	8,400	2,700	1,200	U
75-15-0	Carbon Disulfide	8,500	16,000	8,500	2,500	U
75-34-3	1,1-Dichloroethane	5,200	8,500	5,200	1,200	U
78-93-3	2-Butanone (MEK)	5,100	16,000	5,100	1,700	U
141-78-6	Ethyl Acetate	10,000	16,000	10,000	4,400	U, L
110-54-3	n-Hexane	<b>1,400,000</b>	8,200	5,100	1,700	
67-66-3	Chloroform	2,700	8,400	2,700	1,100	U
109-99-9	Tetrahydrofuran (THF)	2,700	16,000	2,700	1,100	U
107-06-2	1,2-Dichloroethane	2,700	8,200	2,700	930	U
71-43-2	Benzene	<b>61,000</b>	8,200	2,700	1,200	
56-23-5	Carbon Tetrachloride	2,700	8,100	2,700	1,200	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-250-604

ALS Project ID: P2005893

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005893-012

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

Container ID: 1SC00886

Initial Pressure (psig): -1.87 Final Pressure (psig): 5.59

Container Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1,100,000</b>	16,000	5,400	2,400	
75-27-4	Bromodichloromethane	2,700	8,200	2,700	1,200	U
79-01-6	Trichloroethene	2,700	8,100	2,700	1,100	U
123-91-1	1,4-Dioxane	2,700	8,200	2,700	1,000	U
142-82-5	n-Heptane	<b>1,200,000</b>	8,200	5,100	1,300	
108-10-1	4-Methyl-2-pentanone	2,700	16,000	2,700	1,200	U
108-88-3	Toluene	<b>75,000</b>	8,200	2,700	1,000	
591-78-6	2-Hexanone	2,700	16,000	2,700	1,000	U
124-48-1	Dibromochloromethane	2,700	8,200	2,700	1,100	U
106-93-4	1,2-Dibromoethane	2,700	8,200	2,700	980	U
127-18-4	Tetrachloroethene	2,700	8,200	2,700	1,100	U
100-41-4	Ethylbenzene	2,700	8,200	2,700	1,200	U
179601-23-1	m,p-Xylenes	<b>14,000</b>	16,000	5,400	2,200	J
75-25-2	Bromoform	5,100	8,400	5,100	1,700	U
100-42-5	Styrene	5,100	8,200	5,100	1,400	U
95-47-6	o-Xylene	<b>3,300</b>	8,400	2,700	1,200	J
108-67-8	1,3,5-Trimethylbenzene	2,700	8,400	2,700	1,200	U
95-63-6	1,2,4-Trimethylbenzene	2,700	8,200	2,700	1,200	U
120-82-1	1,2,4-Trichlorobenzene	5,100	16,000	5,100	2,100	U
91-20-3	Naphthalene	4,900	8,200	4,900	2,100	U
1330-20-7	Xylenes, Total	<b>17,000</b>	16,000	5,400	2,200	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01271

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0080 Liter(s)

Initial Pressure (psig): -2.47 Final Pressure (psig): 5.63

Container Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>680</b>	110	66	27	
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>300</b>	110	66	18	
74-87-3	Chloromethane	66	110	66	18	<b>U</b>
75-01-4	Vinyl Chloride	35	110	35	12	<b>U</b>
106-99-0	1,3-Butadiene	66	110	66	18	<b>U</b>
75-00-3	Chloroethane	66	110	66	14	<b>U</b>
64-17-5	Ethanol	170	1,100	170	77	<b>U</b>
67-64-1	Acetone	560	1,100	560	250	<b>U</b>
75-69-4	Trichlorofluoromethane	<b>22</b>	110	66	17	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	130	210	130	46	<b>U</b>
75-09-2	Methylene Chloride	66	110	66	31	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>200</b>	110	35	16	
75-15-0	Carbon Disulfide	110	210	110	33	<b>U</b>
75-34-3	1,1-Dichloroethane	68	110	68	16	<b>U</b>
78-93-3	2-Butanone (MEK)	66	210	66	23	<b>U</b>
141-78-6	Ethyl Acetate	130	210	130	58	<b>U, L</b>
110-54-3	n-Hexane	<b>11,000</b>	110	66	23	
67-66-3	Chloroform	35	110	35	15	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	35	210	35	14	<b>U</b>
107-06-2	1,2-Dichloroethane	35	110	35	12	<b>U</b>
71-43-2	Benzene	<b>19</b>	110	35	16	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>42</b>	110	35	15	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01271

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0080 Liter(s)

Initial Pressure (psig): -2.47 Final Pressure (psig): 5.63

Container Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>37,000</b>	210	71	31	
75-27-4	Bromodichloromethane	35	110	35	16	U
79-01-6	Trichloroethene	<b>45</b>	110	35	15	J
123-91-1	1,4-Dioxane	35	110	35	13	U
142-82-5	n-Heptane	<b>130</b>	110	66	18	
108-10-1	4-Methyl-2-pentanone	35	210	35	15	U
108-88-3	Toluene	<b>81</b>	110	35	13	J
591-78-6	2-Hexanone	35	210	35	14	U
124-48-1	Dibromochloromethane	35	110	35	15	U
106-93-4	1,2-Dibromoethane	35	110	35	13	U
127-18-4	Tetrachloroethene	<b>16</b>	110	35	14	J
100-41-4	Ethylbenzene	35	110	35	16	U
179601-23-1	m,p-Xylenes	71	210	71	29	U
75-25-2	Bromoform	66	110	66	23	U
100-42-5	Styrene	66	110	66	18	U
95-47-6	o-Xylene	35	110	35	16	U
108-67-8	1,3,5-Trimethylbenzene	35	110	35	16	U
95-63-6	1,2,4-Trimethylbenzene	35	110	35	15	U
120-82-1	1,2,4-Trichlorobenzene	66	210	66	27	U
91-20-3	Naphthalene	64	110	64	27	U
1330-20-7	Xylenes, Total	71	210	71	29	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01276

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -2.18 Final Pressure (psig): 6.31

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	170	58	36	15	
75-71-8	Dichlorodifluoromethane (CFC 12)	15	58	36	9.7	J
74-87-3	Chloromethane	39	58	36	9.6	J
75-01-4	Vinyl Chloride	19	59	19	6.4	U
106-99-0	1,3-Butadiene	36	58	36	9.9	U
75-00-3	Chloroethane	36	58	36	7.4	U
64-17-5	Ethanol	66	590	93	41	J
67-64-1	Acetone	300	580	300	130	U
75-69-4	Trichlorofluoromethane	36	57	36	9.1	U
67-63-0	2-Propanol (Isopropyl Alcohol)	71	110	71	25	U
75-09-2	Methylene Chloride	170	58	36	17	
76-13-1	Trichlorotrifluoroethane	19	59	19	8.5	U
75-15-0	Carbon Disulfide	190	110	60	18	
75-34-3	1,1-Dichloroethane	37	60	37	8.7	U
78-93-3	2-Butanone (MEK)	36	110	36	12	U
141-78-6	Ethyl Acetate	73	110	73	31	U, L
110-54-3	n-Hexane	8,600	58	36	12	
67-66-3	Chloroform	19	59	19	8.0	U
109-99-9	Tetrahydrofuran (THF)	48	110	19	7.5	J
107-06-2	1,2-Dichloroethane	19	58	19	6.6	U
71-43-2	Benzene	360	58	19	8.6	
56-23-5	Carbon Tetrachloride	19	57	19	8.3	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV110-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01276

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -2.18 Final Pressure (psig): 6.31

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>7,400</b>	110	38	17	
75-27-4	Bromodichloromethane	19	58	19	8.6	U
79-01-6	Trichloroethene	19	57	19	8.1	U
123-91-1	1,4-Dioxane	19	58	19	7.1	U
142-82-5	n-Heptane	<b>8,000</b>	58	36	9.5	
108-10-1	4-Methyl-2-pentanone	19	110	19	8.2	U
108-88-3	Toluene	<b>840</b>	58	19	7.3	
591-78-6	2-Hexanone	19	110	19	7.4	U
124-48-1	Dibromochloromethane	19	58	19	7.8	U
106-93-4	1,2-Dibromoethane	19	58	19	6.9	U
127-18-4	Tetrachloroethene	19	58	19	7.7	U
100-41-4	Ethylbenzene	<b>32</b>	58	19	8.4	J
179601-23-1	m,p-Xylenes	<b>120</b>	110	38	16	
75-25-2	Bromoform	36	59	36	12	U
100-42-5	Styrene	36	58	36	9.6	U
95-47-6	o-Xylene	<b>27</b>	59	19	8.6	J
108-67-8	1,3,5-Trimethylbenzene	19	59	19	8.6	U
95-63-6	1,2,4-Trimethylbenzene	19	58	19	8.3	U
120-82-1	1,2,4-Trichlorobenzene	36	110	36	15	U
91-20-3	Naphthalene	35	58	35	15	U
1330-20-7	Xylenes, Total	<b>150</b>	110	38	16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-020-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00152

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.96    Final Pressure (psig): 5.33  
 Initial Pressure 2 (psig): -0.01    Final Pressure 2 (psig): 7.06

Container Dilution Factor: 2.33

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.9	3.0	1.9	0.76	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3.2	3.0	1.9	0.51	
74-87-3	Chloromethane	1.9	3.0	1.9	0.50	U
75-01-4	Vinyl Chloride	0.99	3.1	0.99	0.33	U
106-99-0	1,3-Butadiene	1.9	3.0	1.9	0.51	U
75-00-3	Chloroethane	1.9	3.0	1.9	0.38	U
64-17-5	Ethanol	12	31	4.8	2.2	J
67-64-1	Acetone	14	30	16	7.0	J
75-69-4	Trichlorofluoromethane	1.1	3.0	1.9	0.47	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.7	5.8	3.7	1.3	U
75-09-2	Methylene Chloride	1.9	3.0	1.9	0.87	U
76-13-1	Trichlorotrifluoroethane	0.86	3.1	0.99	0.44	J
75-15-0	Carbon Disulfide	7.9	5.8	3.1	0.93	
75-34-3	1,1-Dichloroethane	1.9	3.1	1.9	0.45	U
78-93-3	2-Butanone (MEK)	2.1	5.8	1.9	0.64	J
141-78-6	Ethyl Acetate	41	5.8	3.8	1.6	, L
110-54-3	n-Hexane	1.9	3.0	1.9	0.64	U
67-66-3	Chloroform	0.99	3.1	0.99	0.41	U
109-99-9	Tetrahydrofuran (THF)	0.99	5.8	0.99	0.39	U
107-06-2	1,2-Dichloroethane	0.99	3.0	0.99	0.34	U
71-43-2	Benzene	1.1	3.0	0.99	0.45	J
56-23-5	Carbon Tetrachloride	1.1	3.0	0.99	0.43	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-020-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-015

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00152

Initial Pressure (psig): -1.96 Final Pressure (psig): 5.33

Initial Pressure 2 (psig): -0.01 Final Pressure 2 (psig): 7.06

Container Dilution Factor: 2.33

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.0	5.8	2.0	0.87	U
75-27-4	Bromodichloromethane	0.99	3.0	0.99	0.45	U
79-01-6	Trichloroethene	0.99	3.0	0.99	0.42	U
123-91-1	1,4-Dioxane	0.99	3.0	0.99	0.37	U
142-82-5	n-Heptane	1.9	3.0	1.9	0.50	U
108-10-1	4-Methyl-2-pentanone	0.99	5.8	0.99	0.43	U
108-88-3	Toluene	<b>2.6</b>	3.0	0.99	0.38	J
591-78-6	2-Hexanone	0.99	5.8	0.99	0.38	U
124-48-1	Dibromochloromethane	0.99	3.0	0.99	0.41	U
106-93-4	1,2-Dibromoethane	0.99	3.0	0.99	0.36	U
127-18-4	Tetrachloroethene	<b>0.54</b>	3.0	0.99	0.40	J
100-41-4	Ethylbenzene	0.99	3.0	0.99	0.44	U
179601-23-1	m,p-Xylenes	<b>1.0</b>	5.8	2.0	0.82	J
75-25-2	Bromoform	1.9	3.1	1.9	0.64	U
100-42-5	Styrene	1.9	3.0	1.9	0.50	U
95-47-6	o-Xylene	0.99	3.1	0.99	0.45	U
108-67-8	1,3,5-Trimethylbenzene	0.99	3.1	0.99	0.45	U
95-63-6	1,2,4-Trimethylbenzene	0.99	3.0	0.99	0.43	U
120-82-1	1,2,4-Trichlorobenzene	1.9	5.8	1.9	0.76	U
91-20-3	Naphthalene	1.8	3.0	1.8	0.76	U
1330-20-7	Xylenes, Total	<b>1.0</b>	5.8	2.0	0.82	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01187

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.49    Final Pressure (psig): 5.92  
 Initial Pressure 2 (psig): -0.02    Final Pressure 2 (psig): 6.39

Container Dilution Factor: 2.43

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.9	3.2	1.9	0.79	U
75-71-8	Dichlorodifluoromethane (CFC 12)	7.1	3.2	1.9	0.53	
74-87-3	Chloromethane	1.9	3.2	1.9	0.52	U
75-01-4	Vinyl Chloride	1.0	3.2	1.0	0.35	U
106-99-0	1,3-Butadiene	1.9	3.2	1.9	0.53	U
75-00-3	Chloroethane	1.9	3.2	1.9	0.40	U
64-17-5	Ethanol	8.0	32	5.0	2.2	J
67-64-1	Acetone	16	32	16	7.3	U
75-69-4	Trichlorofluoromethane	1.3	3.1	1.9	0.49	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.8	6.1	3.8	1.3	U
75-09-2	Methylene Chloride	1.9	3.2	1.9	0.91	U
76-13-1	Trichlorotrifluoroethane	3.1	3.2	1.0	0.46	J
75-15-0	Carbon Disulfide	1.0	6.1	3.3	0.97	J
75-34-3	1,1-Dichloroethane	2.0	3.3	2.0	0.47	U
78-93-3	2-Butanone (MEK)	1.7	6.1	1.9	0.67	J
141-78-6	Ethyl Acetate	3.9	6.1	3.9	1.7	U, L
110-54-3	n-Hexane	1.9	3.2	1.9	0.67	U
67-66-3	Chloroform	25	3.2	1.0	0.43	
109-99-9	Tetrahydrofuran (THF)	3.3	6.1	1.0	0.41	J
107-06-2	1,2-Dichloroethane	1.0	3.2	1.0	0.36	U
71-43-2	Benzene	1.0	3.2	1.0	0.47	U
56-23-5	Carbon Tetrachloride	13	3.1	1.0	0.45	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-016

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01187

Initial Pressure (psig): -2.49 Final Pressure (psig): 5.92

Initial Pressure 2 (psig): -0.02 Final Pressure 2 (psig): 6.39

Container Dilution Factor: 2.43

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.1	6.1	2.1	0.91	U
75-27-4	Bromodichloromethane	<b>2.0</b>	3.2	1.0	0.47	J
79-01-6	Trichloroethene	1.0	3.1	1.0	0.44	U
123-91-1	1,4-Dioxane	1.0	3.2	1.0	0.38	U
142-82-5	n-Heptane	<b>0.65</b>	3.2	1.9	0.52	J
108-10-1	4-Methyl-2-pentanone	1.0	6.1	1.0	0.44	U
108-88-3	Toluene	<b>1.4</b>	3.2	1.0	0.39	J
591-78-6	2-Hexanone	1.0	6.1	1.0	0.40	U
124-48-1	Dibromochloromethane	1.0	3.2	1.0	0.43	U
106-93-4	1,2-Dibromoethane	1.0	3.2	1.0	0.38	U
127-18-4	Tetrachloroethene	<b>3.5</b>	3.2	1.0	0.42	
100-41-4	Ethylbenzene	1.0	3.2	1.0	0.46	U
179601-23-1	m,p-Xylenes	2.1	6.1	2.1	0.85	U
75-25-2	Bromoform	1.9	3.2	1.9	0.67	U
100-42-5	Styrene	1.9	3.2	1.9	0.52	U
95-47-6	o-Xylene	1.0	3.2	1.0	0.47	U
108-67-8	1,3,5-Trimethylbenzene	1.0	3.2	1.0	0.47	U
95-63-6	1,2,4-Trimethylbenzene	1.0	3.2	1.0	0.45	U
120-82-1	1,2,4-Trichlorobenzene	1.9	6.1	1.9	0.79	U
91-20-3	Naphthalene	1.9	3.2	1.9	0.79	U
1330-20-7	Xylenes, Total	2.1	6.1	2.1	0.85	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00536

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.30    Final Pressure (psig): 6.34  
 Initial Pressure 2 (psig): -0.02    Final Pressure 2 (psig): 7.14

Container Dilution Factor: 2.52

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.0	3.3	2.0	0.82	U
75-71-8	Dichlorodifluoromethane (CFC 12)	13	3.3	2.0	0.55	
74-87-3	Chloromethane	2.0	3.3	2.0	0.54	U
75-01-4	Vinyl Chloride	1.1	3.3	1.1	0.36	U
106-99-0	1,3-Butadiene	2.0	3.3	2.0	0.55	U
75-00-3	Chloroethane	2.0	3.3	2.0	0.42	U
64-17-5	Ethanol	9.3	33	5.2	2.3	J
67-64-1	Acetone	11	33	17	7.6	J
75-69-4	Trichlorofluoromethane	1.4	3.2	2.0	0.51	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.0	6.3	4.0	1.4	U
75-09-2	Methylene Chloride	2.0	3.3	2.0	0.95	U
76-13-1	Trichlorotrifluoroethane	3.6	3.3	1.1	0.48	
75-15-0	Carbon Disulfide	11	6.3	3.4	1.0	
75-34-3	1,1-Dichloroethane	2.1	3.4	2.1	0.49	U
78-93-3	2-Butanone (MEK)	2.8	6.3	2.0	0.69	J
141-78-6	Ethyl Acetate	4.1	6.3	4.1	1.8	U, L
110-54-3	n-Hexane	2.0	3.3	2.0	0.69	U
67-66-3	Chloroform	6.5	3.3	1.1	0.45	
109-99-9	Tetrahydrofuran (THF)	28	6.3	1.1	0.42	
107-06-2	1,2-Dichloroethane	1.1	3.3	1.1	0.37	U
71-43-2	Benzene	0.58	3.3	1.1	0.49	J
56-23-5	Carbon Tetrachloride	21	3.2	1.1	0.47	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-017

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00536

Initial Pressure (psig): -2.30 Final Pressure (psig): 6.34

Initial Pressure 2 (psig): -0.02 Final Pressure 2 (psig): 7.14

Container Dilution Factor: 2.52

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.1	6.3	2.1	0.95	U
75-27-4	Bromodichloromethane	1.1	3.3	1.1	0.49	U
79-01-6	Trichloroethene	1.1	3.2	1.1	0.45	U
123-91-1	1,4-Dioxane	1.1	3.3	1.1	0.40	U
142-82-5	n-Heptane	2.0	3.3	2.0	0.54	U
108-10-1	4-Methyl-2-pentanone	1.1	6.3	1.1	0.46	U
108-88-3	Toluene	1.1	3.3	1.1	0.41	J
591-78-6	2-Hexanone	1.1	6.3	1.1	0.42	U
124-48-1	Dibromochloromethane	1.1	3.3	1.1	0.44	U
106-93-4	1,2-Dibromoethane	1.1	3.3	1.1	0.39	U
127-18-4	Tetrachloroethene	3.7	3.3	1.1	0.43	U
100-41-4	Ethylbenzene	1.1	3.3	1.1	0.47	U
179601-23-1	m,p-Xylenes	2.1	6.3	2.1	0.88	U
75-25-2	Bromoform	2.0	3.3	2.0	0.69	U
100-42-5	Styrene	2.0	3.3	2.0	0.54	U
95-47-6	o-Xylene	1.1	3.3	1.1	0.49	U
108-67-8	1,3,5-Trimethylbenzene	1.1	3.3	1.1	0.49	U
95-63-6	1,2,4-Trimethylbenzene	1.1	3.3	1.1	0.47	U
120-82-1	1,2,4-Trichlorobenzene	2.0	6.3	2.0	0.82	U
91-20-3	Naphthalene	2.0	3.3	2.0	0.82	U
1330-20-7	Xylenes, Total	2.1	6.3	2.1	0.88	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00698

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.96 Final Pressure (psig): 5.48

Container Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.84</b>	2.1	1.3	0.51	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>36</b>	2.1	1.3	0.34	
74-87-3	Chloromethane	<b>0.45</b>	2.1	1.3	0.34	<b>J</b>
75-01-4	Vinyl Chloride	0.67	2.1	0.67	0.23	<b>U</b>
106-99-0	1,3-Butadiene	1.3	2.1	1.3	0.35	<b>U</b>
75-00-3	Chloroethane	1.3	2.1	1.3	0.26	<b>U</b>
64-17-5	Ethanol	<b>6.8</b>	21	3.3	1.5	<b>J</b>
67-64-1	Acetone	<b>15</b>	21	11	4.7	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>2.5</b>	2.0	1.3	0.32	
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.96</b>	4.0	2.5	0.87	<b>J</b>
75-09-2	Methylene Chloride	<b>0.99</b>	2.1	1.3	0.59	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>3.9</b>	2.1	0.67	0.30	
75-15-0	Carbon Disulfide	<b>13</b>	4.0	2.1	0.63	
75-34-3	1,1-Dichloroethane	1.3	2.1	1.3	0.31	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>6.1</b>	4.0	1.3	0.43	
141-78-6	Ethyl Acetate	<b>2.4</b>	4.0	2.6	1.1	<b>J, L</b>
110-54-3	n-Hexane	<b>0.45</b>	2.1	1.3	0.43	<b>J</b>
67-66-3	Chloroform	<b>2.2</b>	2.1	0.67	0.28	
109-99-9	Tetrahydrofuran (THF)	<b>11</b>	4.0	0.67	0.26	
107-06-2	1,2-Dichloroethane	0.67	2.1	0.67	0.23	<b>U</b>
71-43-2	Benzene	<b>0.67</b>	2.1	0.67	0.30	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>15</b>	2.0	0.67	0.29	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-018

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00698

Initial Pressure (psig): -1.96 Final Pressure (psig): 5.48

Container Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>0.71</b>	4.0	1.3	0.59	<b>J</b>
75-27-4	Bromodichloromethane	0.67	2.1	0.67	0.30	<b>U</b>
79-01-6	Trichloroethene	0.67	2.0	0.67	0.28	<b>U</b>
123-91-1	1,4-Dioxane	0.67	2.1	0.67	0.25	<b>U</b>
142-82-5	n-Heptane	<b>0.57</b>	2.1	1.3	0.34	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>0.40</b>	4.0	0.67	0.29	<b>J</b>
108-88-3	Toluene	<b>1.8</b>	2.1	0.67	0.26	<b>J</b>
591-78-6	2-Hexanone	<b>0.82</b>	4.0	0.67	0.26	<b>J</b>
124-48-1	Dibromochloromethane	0.67	2.1	0.67	0.28	<b>U</b>
106-93-4	1,2-Dibromoethane	0.67	2.1	0.67	0.24	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.70</b>	2.1	0.67	0.27	<b>J</b>
100-41-4	Ethylbenzene	0.67	2.1	0.67	0.30	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.60</b>	4.0	1.3	0.55	<b>J</b>
75-25-2	Bromoform	1.3	2.1	1.3	0.43	<b>U</b>
100-42-5	Styrene	<b>0.87</b>	2.1	1.3	0.34	<b>J</b>
95-47-6	o-Xylene	0.67	2.1	0.67	0.30	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.67	2.1	0.67	0.30	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.67	2.1	0.67	0.29	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	1.3	4.0	1.3	0.51	<b>U</b>
91-20-3	Naphthalene	1.2	2.1	1.2	0.51	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.60</b>	4.0	1.3	0.55	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00517

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0090 Liter(s)

Initial Pressure (psig): -3.14    Final Pressure (psig): 5.53  
 Initial Pressure 2 (psig): 0.00    Final Pressure 2 (psig): 4.99

Container Dilution Factor: 2.34

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>550</b>	140	83	34	
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>170</b>	140	83	23	
74-87-3	Chloromethane	83	140	83	22	<b>U</b>
75-01-4	Vinyl Chloride	44	140	44	15	<b>U</b>
106-99-0	1,3-Butadiene	83	140	83	23	<b>U</b>
75-00-3	Chloroethane	83	140	83	17	<b>U</b>
64-17-5	Ethanol	220	1,400	220	96	<b>U</b>
67-64-1	Acetone	700	1,400	700	310	<b>U</b>
75-69-4	Trichlorofluoromethane	83	130	83	21	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	160	260	160	57	<b>U</b>
75-09-2	Methylene Chloride	83	140	83	39	<b>U</b>
76-13-1	Trichlorotrifluoroethane	44	140	44	20	<b>U</b>
75-15-0	Carbon Disulfide	140	260	140	42	<b>U</b>
75-34-3	1,1-Dichloroethane	86	140	86	20	<b>U</b>
78-93-3	2-Butanone (MEK)	83	260	83	29	<b>U</b>
141-78-6	Ethyl Acetate	170	260	170	73	<b>U, L</b>
110-54-3	n-Hexane	<b>1,400</b>	140	83	29	
67-66-3	Chloroform	44	140	44	18	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	44	260	44	17	<b>U</b>
107-06-2	1,2-Dichloroethane	44	140	44	15	<b>U</b>
71-43-2	Benzene	<b>1,200</b>	140	44	20	
56-23-5	Carbon Tetrachloride	44	130	44	19	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-350-204

ALS Project ID: P2005893

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005893-019

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0090 Liter(s)

Test Notes:

Container ID: 1SS00517

Initial Pressure (psig): -3.14    Final Pressure (psig): 5.53  
 Initial Pressure 2 (psig): 0.00    Final Pressure 2 (psig): 4.99

Container Dilution Factor: 2.34

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>5,800</b>	260	88	39	
75-27-4	Bromodichloromethane	44	140	44	20	U
79-01-6	Trichloroethene	44	130	44	19	U
123-91-1	1,4-Dioxane	44	140	44	16	U
142-82-5	n-Heptane	<b>67</b>	140	83	22	J
108-10-1	4-Methyl-2-pentanone	44	260	44	19	U
108-88-3	Toluene	<b>640</b>	140	44	17	
591-78-6	2-Hexanone	44	260	44	17	U
124-48-1	Dibromochloromethane	44	140	44	18	U
106-93-4	1,2-Dibromoethane	44	140	44	16	U
127-18-4	Tetrachloroethene	44	140	44	18	U
100-41-4	Ethylbenzene	44	140	44	20	U
179601-23-1	m,p-Xylenes	<b>50</b>	260	88	36	J
75-25-2	Bromoform	83	140	83	29	U
100-42-5	Styrene	83	140	83	22	U
95-47-6	o-Xylene	<b>89</b>	140	44	20	J
108-67-8	1,3,5-Trimethylbenzene	<b>40</b>	140	44	20	J
95-63-6	1,2,4-Trimethylbenzene	44	140	44	19	U
120-82-1	1,2,4-Trichlorobenzene	83	260	83	34	U
91-20-3	Naphthalene	81	140	81	34	U
1330-20-7	Xylenes, Total	<b>140</b>	260	88	36	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV113-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00610

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0025 Liter(s)

Initial Pressure (psig): -1.88 Final Pressure (psig): 5.59

Container Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>5,600</b>	330	200	82	
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>300</b>	330	200	55	<b>J</b>
74-87-3	Chloromethane	200	330	200	54	<b>U</b>
75-01-4	Vinyl Chloride	110	330	110	36	<b>U</b>
106-99-0	1,3-Butadiene	200	330	200	56	<b>U</b>
75-00-3	Chloroethane	200	330	200	42	<b>U</b>
64-17-5	Ethanol	520	3,300	520	230	<b>U</b>
67-64-1	Acetone	1,700	3,300	1,700	760	<b>U</b>
75-69-4	Trichlorofluoromethane	200	320	200	51	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>210</b>	630	400	140	<b>J</b>
75-09-2	Methylene Chloride	200	330	200	95	<b>U</b>
76-13-1	Trichlorotrifluoroethane	110	330	110	48	<b>U</b>
75-15-0	Carbon Disulfide	<b>150</b>	630	340	100	<b>J</b>
75-34-3	1,1-Dichloroethane	210	340	210	49	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>120</b>	630	200	70	<b>J</b>
141-78-6	Ethyl Acetate	410	630	410	180	<b>U, L</b>
110-54-3	n-Hexane	<b>44,000</b>	330	200	70	
67-66-3	Chloroform	110	330	110	45	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>120</b>	630	110	42	<b>J</b>
107-06-2	1,2-Dichloroethane	110	330	110	37	<b>U</b>
71-43-2	Benzene	<b>34,000</b>	330	110	49	
56-23-5	Carbon Tetrachloride	110	320	110	47	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV113-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

ALS Sample ID: P2005893-020

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0025 Liter(s)

Test Notes:

Container ID: 1SC00610

Initial Pressure (psig): -1.88 Final Pressure (psig): 5.59

Container Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	48,000	630	210	95	
75-27-4	Bromodichloromethane	110	330	110	49	U
79-01-6	Trichloroethene	110	320	110	46	U
123-91-1	1,4-Dioxane	110	330	110	40	U
142-82-5	n-Heptane	39,000	330	200	54	
108-10-1	4-Methyl-2-pentanone	110	630	110	46	U
108-88-3	Toluene	58,000	330	110	41	
591-78-6	2-Hexanone	110	630	110	42	U
124-48-1	Dibromochloromethane	110	330	110	44	U
106-93-4	1,2-Dibromoethane	160	330	110	39	J
127-18-4	Tetrachloroethene	110	330	110	44	U
100-41-4	Ethylbenzene	4,300	330	110	47	
179601-23-1	m,p-Xylenes	18,000	630	210	88	
75-25-2	Bromoform	200	330	200	70	U
100-42-5	Styrene	200	330	200	54	U
95-47-6	o-Xylene	7,700	330	110	49	
108-67-8	1,3,5-Trimethylbenzene	3,900	330	110	49	
95-63-6	1,2,4-Trimethylbenzene	4,300	330	110	47	
120-82-1	1,2,4-Trichlorobenzene	200	630	200	82	U
91-20-3	Naphthalene	200	330	200	82	U
1330-20-7	Xylenes, Total	25,000	630	210	88	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201025-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

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 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201025-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U, L
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 10/13/20

Analyst: Simon Cao/Topacio De Leon/Wida Ang

Date(s) Received: 10/19/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 10/25 - 11/2/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201025-MB	95	100	114	70-130	
Method Blank	P201102-MB	93	107	106	70-130	
Lab Control Sample	P201025-LCS	94	98	113	70-130	
Lab Control Sample	P201102-LCS	95	100	104	70-130	
Duplicate Lab Control Sample	P201025-DLCS	94	99	114	70-130	
Duplicate Lab Control Sample	P201102-DLCS	94	101	105	70-130	
SV109-025-204	P2005893-001	95	101	116	70-130	
SV109-050-204	P2005893-002	95	101	116	70-130	
SV109-150-204	P2005893-003	96	100	116	70-130	
SV109-250-204	P2005893-004	95	101	116	70-130	
SV109-350-204	P2005893-005	95	101	116	70-130	
SV109-450-204	P2005893-006	94	100	116	70-130	
SV109-450-604	P2005893-007	95	100	117	70-130	
SV110-025-204	P2005893-008	95	100	115	70-130	
SV110-050-204	P2005893-009	91	100	115	70-130	
SV110-150-204	P2005893-010	95	100	98	70-130	
SV110-250-204	P2005893-011	93	106	107	70-130	
SV110-250-604	P2005893-012	93	101	99	70-130	
SV110-350-204	P2005893-013	94	98	104	70-130	
SV110-450-204	P2005893-014	97	103	99	70-130	
SV113-020-204	P2005893-015	94	106	107	70-130	
SV113-050-204	P2005893-016	94	109	104	70-130	
SV113-150-204	P2005893-017	93	103	106	70-130	
SV113-250-204	P2005893-018	95	104	104	70-130	
SV113-350-204	P2005893-019	93	104	108	70-130	
SV113-450-204	P2005893-020	94	100	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201025-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$			Limits	Limit	
115-07-1	Propene	210	164	159	<b>78</b>	<b>76</b>		57-136	3	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	171	166	<b>81</b>	<b>79</b>		59-128	3	25
74-87-3	Chloromethane	206	166	165	<b>81</b>	<b>80</b>		59-132	1	25
75-01-4	Vinyl Chloride	208	171	171	<b>82</b>	<b>82</b>		64-127	0	25
106-99-0	1,3-Butadiene	210	188	184	<b>90</b>	<b>88</b>		66-134	2	25
75-00-3	Chloroethane	204	170	166	<b>83</b>	<b>81</b>		63-127	2	25
64-17-5	Ethanol	998	722	713	<b>72</b>	<b>71</b>		59-125	1	25
67-64-1	Acetone	1,030	776	761	<b>75</b>	<b>74</b>		58-128	1	25
75-69-4	Trichlorofluoromethane	204	161	158	<b>79</b>	<b>77</b>		62-126	3	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	352	346	<b>86</b>	<b>85</b>		52-125	1	25
75-09-2	Methylene Chloride	208	172	169	<b>83</b>	<b>81</b>		62-115	2	25
76-13-1	Trichlorotrifluoroethane	214	184	184	<b>86</b>	<b>86</b>		66-126	0	25
75-15-0	Carbon Disulfide	428	321	319	<b>75</b>	<b>75</b>		57-134	0	25
75-34-3	1,1-Dichloroethane	212	168	167	<b>79</b>	<b>79</b>		68-126	0	25
78-93-3	2-Butanone (MEK)	412	374	372	<b>91</b>	<b>90</b>		67-130	1	25
141-78-6	Ethyl Acetate	422	471	468	<b>112</b>	<b>111</b>		65-128	0.9	25
110-54-3	n-Hexane	212	163	162	<b>77</b>	<b>76</b>		63-120	1	25
67-66-3	Chloroform	214	167	165	<b>78</b>	<b>77</b>		68-123	1	25
109-99-9	Tetrahydrofuran (THF)	400	320	319	<b>80</b>	<b>80</b>		64-123	0	25
107-06-2	1,2-Dichloroethane	208	174	174	<b>84</b>	<b>84</b>		65-128	0	25
71-43-2	Benzene	204	167	166	<b>82</b>	<b>81</b>		69-119	1	25
56-23-5	Carbon Tetrachloride	210	162	162	<b>77</b>	<b>77</b>		68-132	0	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201025-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	346	344	83	83	70-117	0	25	
75-27-4	Bromodichloromethane	210	176	175	84	83	72-128	1	25	
79-01-6	Trichloroethene	206	179	179	87	87	71-123	0	25	
123-91-1	1,4-Dioxane	208	194	194	93	93	71-122	0	25	
142-82-5	n-Heptane	210	173	172	82	82	69-123	0	25	
108-10-1	4-Methyl-2-pentanone	416	379	379	91	91	67-130	0	25	
108-88-3	Toluene	206	167	169	81	82	66-119	1	25	
591-78-6	2-Hexanone	404	385	386	95	96	62-128	1	25	
124-48-1	Dibromochloromethane	210	189	190	90	90	70-130	0	25	
106-93-4	1,2-Dibromoethane	208	191	191	92	92	74-122	0	25	
127-18-4	Tetrachloroethene	206	180	182	87	88	66-124	1	25	
100-41-4	Ethylbenzene	206	172	174	83	84	70-124	1	25	
179601-23-1	m,p-Xylenes	412	336	337	82	82	61-134	0	25	
75-25-2	Bromoform	208	199	199	96	96	66-139	0	25	
100-42-5	Styrene	206	190	191	92	93	73-127	1	25	
95-47-6	o-Xylene	206	172	173	83	84	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	206	169	170	82	83	67-130	1	25	
95-63-6	1,2,4-Trimethylbenzene	204	176	177	86	87	66-132	1	25	
120-82-1	1,2,4-Trichlorobenzene	388	374	377	96	97	55-142	1	25	
91-20-3	Naphthalene	198	198	201	100	102	57-138	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier	
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD		RPD Limit
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$						
115-07-1	Propene	210	185	182		<b>88</b>	<b>87</b>	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	185	180		<b>88</b>	<b>86</b>	59-128	2	25	
74-87-3	Chloromethane	206	187	190		<b>91</b>	<b>92</b>	59-132	1	25	
75-01-4	Vinyl Chloride	208	201	201		<b>97</b>	<b>97</b>	64-127	0	25	
106-99-0	1,3-Butadiene	210	210	208		<b>100</b>	<b>99</b>	66-134	1	25	
75-00-3	Chloroethane	204	190	189		<b>93</b>	<b>93</b>	63-127	0	25	
64-17-5	Ethanol	998	822	819		<b>82</b>	<b>82</b>	59-125	0	25	
67-64-1	Acetone	1,030	887	877		<b>86</b>	<b>85</b>	58-128	1	25	
75-69-4	Trichlorofluoromethane	204	173	170		<b>85</b>	<b>83</b>	62-126	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	389	386		<b>95</b>	<b>95</b>	52-125	0	25	
75-09-2	Methylene Chloride	208	191	190		<b>92</b>	<b>91</b>	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	214	198	196		<b>93</b>	<b>92</b>	66-126	1	25	
75-15-0	Carbon Disulfide	428	361	357		<b>84</b>	<b>83</b>	57-134	1	25	
75-34-3	1,1-Dichloroethane	212	189	186		<b>89</b>	<b>88</b>	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	425	422		<b>103</b>	<b>102</b>	67-130	1	25	
141-78-6	Ethyl Acetate	422	558	541		<b>132</b>	<b>128</b>	65-128	3	25	<b>L</b>
110-54-3	n-Hexane	212	189	187		<b>89</b>	<b>88</b>	63-120	1	25	
67-66-3	Chloroform	214	184	181		<b>86</b>	<b>85</b>	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	400	362	360		<b>91</b>	<b>90</b>	64-123	1	25	
107-06-2	1,2-Dichloroethane	208	202	189		<b>97</b>	<b>91</b>	65-128	6	25	
71-43-2	Benzene	204	188	183		<b>92</b>	<b>90</b>	69-119	2	25	
56-23-5	Carbon Tetrachloride	210	171	169		<b>81</b>	<b>80</b>	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.  
 L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005893  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	397	376		<b>95</b>	<b>90</b>	70-117	5	25
75-27-4	Bromodichloromethane	210	199	188		<b>95</b>	<b>90</b>	72-128	5	25
79-01-6	Trichloroethene	206	191	191		<b>93</b>	<b>93</b>	71-123	0	25
123-91-1	1,4-Dioxane	208	220	208		<b>106</b>	<b>100</b>	71-122	6	25
142-82-5	n-Heptane	210	205	192		<b>98</b>	<b>91</b>	69-123	7	25
108-10-1	4-Methyl-2-pentanone	416	407	419		<b>98</b>	<b>101</b>	67-130	3	25
108-88-3	Toluene	206	188	188		<b>91</b>	<b>91</b>	66-119	0	25
591-78-6	2-Hexanone	404	437	437		<b>108</b>	<b>108</b>	62-128	0	25
124-48-1	Dibromochloromethane	210	207	206		<b>99</b>	<b>98</b>	70-130	1	25
106-93-4	1,2-Dibromoethane	208	212	211		<b>102</b>	<b>101</b>	74-122	1	25
127-18-4	Tetrachloroethene	206	194	195		<b>94</b>	<b>95</b>	66-124	1	25
100-41-4	Ethylbenzene	206	194	193		<b>94</b>	<b>94</b>	70-124	0	25
179601-23-1	m,p-Xylenes	412	375	372		<b>91</b>	<b>90</b>	61-134	1	25
75-25-2	Bromoform	208	213	213		<b>102</b>	<b>102</b>	66-139	0	25
100-42-5	Styrene	206	214	213		<b>104</b>	<b>103</b>	73-127	1	25
95-47-6	o-Xylene	206	192	191		<b>93</b>	<b>93</b>	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	206	185	185		<b>90</b>	<b>90</b>	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	204	194	194		<b>95</b>	<b>95</b>	66-132	0	25
120-82-1	1,2,4-Trichlorobenzene	388	380	379		<b>98</b>	<b>98</b>	55-142	0	25
91-20-3	Naphthalene	198	203	202		<b>103</b>	<b>102</b>	57-138	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005893  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 10252001.D  
Analyst: Topacio De Leon Date Analyzed: 10/25/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 03:37  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	125897	11.21	538658	13.32	242349	17.63
<b>Upper Limit</b>	176256	11.54	754121	13.65	339289	17.96
<b>Lower Limit</b>	75538	10.88	323195	12.99	145409	17.30

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	118850	11.18	517150	13.31	229209	17.63
02	Lab Control Sample	124596	11.20	531736	13.32	240549	17.63
03	Duplicate Lab Control Sample	124537	11.21	533340	13.32	239199	17.63
04	SV109-025-204	118695	11.18	513849	13.31	230032	17.63
05	SV109-050-204	119888	11.18	514287	13.31	228992	17.63
06	SV109-150-204	121329	11.18	523697	13.31	234337	17.63
07	SV109-250-204	120850	11.18	523119	13.31	231108	17.63
08	SV109-350-204	122010	11.18	524800	13.31	232990	17.63
09	SV109-450-204	123483	11.19	524050	13.31	235119	17.63
10	SV109-450-604	123779	11.19	531056	13.31	237111	17.63
11	SV110-025-204	122770	11.18	534121	13.31	238975	17.63
12	SV110-050-204	124558	11.18	540304	13.31	240794	17.63
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005893  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 11022001.D  
Analyst: Wida Ang Date Analyzed: 11/2/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 02:38  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	114087	11.20	490873	13.32	217836	17.63
<b>Upper Limit</b>	159722	11.53	687222	13.65	304970	17.96
<b>Lower Limit</b>	68452	10.87	294524	12.99	130702	17.30

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	113382	11.18	489923	13.31	211065	17.63
02	Lab Control Sample	116278	11.20	523815	13.31	223523	17.63
03	Duplicate Lab Control Sample	117466	11.20	509736	13.32	224086	17.63
04	SV110-150-204	112800	11.18	498050	13.31	230537	17.63
05	SV110-250-204	114337	11.18	512806	13.31	215678	17.63
06	SV110-250-604	115530	11.18	525445	13.31	235699	17.63
07	SV110-350-204	117353	11.18	514948	13.31	230331	17.63
08	SV113-450-204	115334	11.19	524765	13.31	223836	17.63
09	SV110-450-204	125416	11.18	557626	13.31	243563	17.63
10	SV113-350-204	116800	11.18	510064	13.31	216607	17.63
11	SV113-250-204	114423	11.18	508197	13.31	216809	17.63
12	SV113-020-204	115278	11.18	502780	13.31	218515	17.63
13	SV113-050-204	115272	11.18	508299	13.31	216951	17.63
14	SV113-150-204	114407	11.18	495965	13.31	215040	17.63
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



2655 Park Center Dr., Suite A  
Simi Valley, CA 93065  
T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

November 6, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 19, 2020. For your reference, these analyses have been assigned our service request number P2005894.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

By Hayden Akers at 5:41 pm, Nov 06, 2020

For Kate Kaneko  
Project Manager

---

RIGHT SOLUTIONS | RIGHT PARTNER



2655 Park Center Dr., Suite A  
 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2005894

## CASE NARRATIVE

The samples were received intact under chain of custody on October 19, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2005894-020	Propene

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2005894

Date Received: 10/19/2020  
 Time Received: 09:30

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SV115-025-604	P2005894-001	Air	10/13/2020	09:05	1SC01234	-3.91	6.61	X
SV115-025-204	P2005894-002	Air	10/13/2020	09:05	1SS00092	-3.58	6.11	X
SV115-050-204	P2005894-003	Air	10/13/2020	09:09	1SC00935	-2.35	6.00	X
SV115-150-204	P2005894-004	Air	10/13/2020	09:12	1SS00039	-4.11	5.92	X
SV115-250-204	P2005894-005	Air	10/13/2020	09:16	1SS00764	-3.95	6.46	X
SV115-350-204	P2005894-006	Air	10/13/2020	09:20	1SC01027	-3.09	6.01	X
SV115-450-204	P2005894-007	Air	10/13/2020	09:31	1SC00158	-2.83	6.04	X
SV120-025-204	P2005894-008	Air	10/13/2020	09:09	1SS00074	-2.95	7.00	X
SV120-025-604	P2005894-009	Air	10/12/2020	09:09	1SS00257	-2.20	6.23	X
SV120-050-204	P2005894-010	Air	10/12/2020	09:27	1SS00534	-2.85	6.41	X
SV120-150-204	P2005894-011	Air	10/12/2020	09:30	1SC00959	-2.08	7.03	X
SV120-250-204	P2005894-012	Air	10/12/2020	09:33	1SC01370	-2.18	6.70	X
SV120-350-204	P2005894-013	Air	10/12/2020	09:37	1SC00692	-2.21	8.03	X
SV120-450-204	P2005894-014	Air	10/12/2020	09:46	1SS00070	-3.40	5.98	X
SV121-025-204	P2005894-015	Air	10/12/2020	10:44	1SC01194	-2.65	6.11	X
SV121-050-204	P2005894-016	Air	10/12/2020	10:47	1SS00715	-2.84	6.51	X
SV121-145-604	P2005894-017	Air	10/12/2020	10:50	1SC01158	-2.53	5.63	X
SV121-145-204	P2005894-018	Air	10/12/2020	10:50	1SC00063	-2.56	6.55	X
SV121-250-204	P2005894-019	Air	10/12/2020	10:55	1SC00929	-2.48	7.36	X
SV121-350-204	P2005894-020	Air	10/12/2020	10:59	1SC00478	-2.75	6.41	X



# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**COC #:** **COC-SV204-03**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **47005894**  
 ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000  Project Manager / Project Chemist Devon Jeratnovic (505) 715-4248 / Pam Moss (303) 590-9143 Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>	Project Name Kirtland AFB Bulk Fuels Facility  Project Number 62735DM02  P.O. # / Billing Information 17682  Sampler (Print & Sign)
--	--

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments e.g. Actual Preservative or specific instructions
SV115-025-604	1	10/13/2020	0905	1SC01234	NA	-25.0	-4.0	1L	TO-15 Project Specific List  X X X X X X X X X
SV115-025-204	2	10/13/2020	0905	1SS00092	NA	-25.0	-2.5	1L	
SV115-050-204	3	10/13/2020	0909	1SC00935	NA	-24.5	0.0	1L	
SV115-150-204	4	10/13/2020	0912	1SS00039	AVG04536	-25.5	-4.5	1L	
SV115-250-204	5	10/13/2020	0916	1SS00764	NA	-25.0	-4.0	1L	
SV115-350-204	6	10/13/2020	0920	1SC01027	NA	-25.0	-3.0	1L	
SV115-450-204	7	10/13/2020	0931	1SC00158	NA	-25.0	-2.0	1L	
SV120-025-204	8	10/12/2020	0909	1SS00074	NA	-28.0	-3.5	1L	
SV120-025-604	9	10/12/2020	0909	1SS00257	NA	-26.5	-1.5	1L	
SV120-050-204	10	10/12/2020	0927	1SS00534	NA	-27.5	-3.0	1L	

FedEX Tracking Number: **1028 3402 4297**  
 Shipping information: Box number 2 of 6  
 Associated with Trip blank: SVTB204-02

Report Tier Levels - please select Tier I - Results (Default; if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>	Chain of Custody Seal: (Circle) (INTACT) BROKEN ABSENT
Relinquished by: (Signature) <i>[Signature]</i> Date: 10/14/20 Time: 1000	Received by: (Signature) <i>[Signature]</i> Date: 10/14/20 Time:
Relinquished by: (Signature) _____ Date: _____ Time: _____	Received by: (Signature) _____ Date: _____ Time: _____
Project Requirements: QAPP Cooler / Blank Temperature_NA °C	

**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270



COC #: **COC-SV204-04**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **V1005894**

ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Project Name: **Kirtland AFB Bulk Fuels Facility**  
 Project Number: **62735DM02**  
 P.O. # / Billing Information: **17682**  
 Sampler (Print & Sign)

Company Name & Address (Reporting Information)  
**EA Engineering, Science, and Technology, Inc., PBC**  
**225 Schilling Circle Suite 400, Hunt Valley, MD**  
**(410) 584-7000**  
 Project Manager / Project Chemist  
**Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143**  
 Email Address for Result Reporting  
**Tara Lamond: [tiamond@eaest.com](mailto:tiamond@eaest.com)**  
**Amanda Smith: [asmith@eaest.com](mailto:asmith@eaest.com)**  
**Pam Moss: [pmoss@eaest.com](mailto:pmoss@eaest.com)**

Analysis Method  
**TO-15 Project Specific List**

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments e.g. Actual Preservative or specific instructions
SV120-150-204	11	10/12/2020	0930	1SC00959	NA	-25.5	0.0	1L	None
SV120-250-204	12	10/12/2020	0933	1SC01370	NA	-28.0	-3.0	1L	None
SV120-350-204	13	10/12/2020	0937	1SC00692	AVG04175	-27.0	-2.0	1L	None
SV120-450-204	14	10/12/2020	0946	1SS00070	NA	-26.0	-3.0	1L	None
SV121-025-204	15	10/12/2020	1044	1SC01194	AVG04639	-26.5	-1.5	1L	None
SV121-050-204	16	10/12/2020	1047	1SS00715	NA	-27.0	-2.0	1L	None
SV121-145-604	17	10/12/2020	1050	1SC01158	NA	-24.0	-1.0	1L	None
SV121-145-204	18	10/12/2020	1050	1SC00063	AVG04166	-27.0	-3.0	1L	None
SV121-250-204	19	10/12/2020	1055	1SC00929	AVG04906	-27.5	-2.0	1L	None
SV121-350-204	20	10/12/2020	1059	1SC00478	NA	-22.0	-1.0	1L	None

FedEX Tracking Number: **1028 3402 4297**

Shipping information: Box number 2 of 6

Report Tier Levels - please select  
 Tier I - Results (Default: if not specified) \_\_\_\_\_  
 Tier II (Results + OC Summaries) \_\_\_\_\_  
 Tier III (Results + OC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) *Stan* Date: 10/14/20 Time: 1000  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

EDD required: Yes  
 Type: ERPIIMS / EQUIS  
 Received by: (Signature) *PS* Date: 10/19/20 Time: 930  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Check of Custody Seal: (Circle)  
 INTACT  BROKEN  ABSENT   
 Project Requirements: QAPP  
 Cooler / Blank Temperature NA °C

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2005894  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/19/2020 Date opened: 10/19/2020 by: DENISE.POSADA

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | <u>Yes</u>                          | <u>No</u>                | <u>N/A</u>                          |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? <u>Box sealing.</u> Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2005894-001.01	1.0 L Source Can					
P2005894-002.01	1.0 L Source Silonite Canister					
P2005894-003.01	1.0 L Source Can					
P2005894-004.01	1.0 L Source Silonite Canister					
P2005894-005.01	1.0 L Source Silonite Canister					
P2005894-006.01	1.0 L Source Can					
P2005894-007.01	1.0 L Source Can					
P2005894-008.01	1.0 L Source Silonite Canister					
P2005894-009.01	1.0 L Source Silonite Canister					
P2005894-010.01	1.0 L Source Silonite Canister					
P2005894-011.01	1.0 L Source Can					
P2005894-012.01	1.0 L Source Can					
P2005894-013.01	1.0 L Source Can					
P2005894-014.01	1.0 L Source Silonite Canister					
P2005894-015.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-025-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01234

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.91 Final Pressure (psig): 6.61

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.79</b>	1.5	0.92	0.37	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.51</b>	0.52	0.32	0.087	<b>J</b>
74-87-3	Chloromethane	0.76	1.2	0.76	0.21	<b>U</b>
75-01-4	Vinyl Chloride	0.33	1.0	0.33	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.71	1.2	0.71	0.20	<b>U</b>
75-00-3	Chloroethane	0.60	0.97	0.60	0.12	<b>U</b>
64-17-5	Ethanol	<b>6.2</b>	14	2.2	0.97	<b>J</b>
67-64-1	Acetone	<b>7.5</b>	11	5.6	2.5	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.22</b>	0.45	0.28	0.071	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.0	1.3	0.44	<b>U</b>
75-09-2	Methylene Chloride	<b>0.25</b>	0.74	0.45	0.21	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>0.074</b>	0.34	0.11	0.049	<b>J</b>
75-15-0	Carbon Disulfide	<b>0.42</b>	1.6	0.85	0.25	<b>J</b>
75-34-3	1,1-Dichloroethane	0.40	0.66	0.40	0.095	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.4</b>	1.7	0.53	0.18	<b>J</b>
141-78-6	Ethyl Acetate	0.89	1.4	0.89	0.38	<b>U</b>
110-54-3	n-Hexane	<b>0.29</b>	0.73	0.45	0.15	<b>J</b>
67-66-3	Chloroform	<b>0.083</b>	0.53	0.17	0.072	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	0.28	1.7	0.28	0.11	<b>U</b>
107-06-2	1,2-Dichloroethane	0.21	0.63	0.21	0.072	<b>U</b>
71-43-2	Benzene	<b>0.60</b>	0.80	0.26	0.12	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.23</b>	0.40	0.13	0.058	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV115-025-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-001

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01234

Initial Pressure (psig): -3.91 Final Pressure (psig): 6.61

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.27</b>	1.4	0.49	0.21	<b>J</b>
75-27-4	Bromodichloromethane	0.13	0.38	0.13	0.057	<b>U</b>
79-01-6	Trichloroethene	0.16	0.47	0.16	0.066	<b>U</b>
123-91-1	1,4-Dioxane	0.23	0.71	0.23	0.086	<b>U</b>
142-82-5	n-Heptane	<b>0.62</b>	0.63	0.38	0.10	<b>J</b>
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.088	<b>U</b>
108-88-3	Toluene	<b>3.2</b>	0.68	0.22	0.085	
591-78-6	2-Hexanone	0.20	1.2	0.20	0.079	<b>U</b>
124-48-1	Dibromochloromethane	0.098	0.30	0.098	0.040	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.040	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.070</b>	0.38	0.12	0.050	<b>J</b>
100-41-4	Ethylbenzene	<b>0.41</b>	0.59	0.19	0.085	<b>J</b>
179601-23-1	m,p-Xylenes	<b>2.1</b>	1.1	0.39	0.16	
75-25-2	Bromoform	0.15	0.25	0.15	0.052	<b>U</b>
100-42-5	Styrene	0.37	0.60	0.37	0.10	<b>U</b>
95-47-6	o-Xylene	<b>0.96</b>	0.60	0.19	0.087	
108-67-8	1,3,5-Trimethylbenzene	<b>0.96</b>	0.53	0.17	0.077	
95-63-6	1,2,4-Trimethylbenzene	<b>1.3</b>	0.52	0.17	0.074	
120-82-1	1,2,4-Trichlorobenzene	0.21	0.66	0.21	0.086	<b>U</b>
91-20-3	Naphthalene	<b>0.16</b>	0.49	0.29	0.12	<b>J</b>
1330-20-7	Xylenes, Total	<b>3.1</b>	1.1	0.39	0.16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00092

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.58 Final Pressure (psig): 6.11

Container Dilution Factor: 1.87

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.71</b>	1.4	0.87	0.35	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.49</b>	0.49	0.30	0.082	
74-87-3	Chloromethane	0.72	1.2	0.72	0.19	<b>U</b>
75-01-4	Vinyl Chloride	0.31	0.97	0.31	0.10	<b>U</b>
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	<b>U</b>
75-00-3	Chloroethane	0.57	0.92	0.57	0.12	<b>U</b>
64-17-5	Ethanol	<b>5.3</b>	13	2.1	0.92	<b>J</b>
67-64-1	Acetone	<b>6.4</b>	10	5.3	2.4	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.23</b>	0.42	0.27	0.067	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.42</b>	1.9	1.2	0.42	<b>J</b>
75-09-2	Methylene Chloride	<b>0.21</b>	0.70	0.43	0.20	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>0.063</b>	0.32	0.10	0.046	<b>J</b>
75-15-0	Carbon Disulfide	<b>0.24</b>	1.5	0.81	0.24	<b>J</b>
75-34-3	1,1-Dichloroethane	0.38	0.62	0.38	0.090	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.3</b>	1.6	0.51	0.17	<b>J</b>
141-78-6	Ethyl Acetate	0.84	1.3	0.84	0.36	<b>U</b>
110-54-3	n-Hexane	0.42	0.69	0.42	0.15	<b>U</b>
67-66-3	Chloroform	<b>0.079</b>	0.51	0.16	0.068	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	0.27	1.6	0.27	0.11	<b>U</b>
107-06-2	1,2-Dichloroethane	0.20	0.60	0.20	0.068	<b>U</b>
71-43-2	Benzene	<b>0.23</b>	0.76	0.25	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.24</b>	0.38	0.13	0.055	<b>J</b>

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV115-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-002

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00092

Initial Pressure (psig): -3.58 Final Pressure (psig): 6.11

Container Dilution Factor: 1.87

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.46	1.4	0.46	0.20	U
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.054	U
79-01-6	Trichloroethene	0.15	0.44	0.15	0.063	U
123-91-1	1,4-Dioxane	0.22	0.67	0.22	0.082	U
142-82-5	n-Heptane	<b>0.22</b>	0.59	0.37	0.097	J
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.083	U
108-88-3	Toluene	<b>1.4</b>	0.65	0.21	0.081	
591-78-6	2-Hexanone	0.19	1.1	0.19	0.075	U
124-48-1	Dibromochloromethane	0.093	0.29	0.093	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	U
127-18-4	Tetrachloroethene	<b>0.065</b>	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	<b>0.23</b>	0.56	0.18	0.081	J
179601-23-1	m,p-Xylenes	<b>1.1</b>	1.1	0.37	0.15	J
75-25-2	Bromoform	0.14	0.24	0.14	0.050	U
100-42-5	Styrene	0.35	0.57	0.35	0.094	U
95-47-6	o-Xylene	<b>0.53</b>	0.57	0.18	0.083	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.53</b>	0.50	0.16	0.073	
95-63-6	1,2,4-Trimethylbenzene	<b>0.74</b>	0.49	0.16	0.070	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.082	U
91-20-3	Naphthalene	<b>0.15</b>	0.46	0.28	0.12	J
1330-20-7	Xylenes, Total	<b>1.6</b>	1.1	0.37	0.15	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00935

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.35 Final Pressure (psig): 6.00

Container Dilution Factor: 1.68

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.32</b>	1.3	0.78	0.32	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.46</b>	0.44	0.27	0.074	
74-87-3	Chloromethane	0.65	1.1	0.65	0.17	<b>U</b>
75-01-4	Vinyl Chloride	0.28	0.87	0.28	0.094	<b>U</b>
106-99-0	1,3-Butadiene	0.61	0.99	0.61	0.17	<b>U</b>
75-00-3	Chloroethane	0.51	0.83	0.51	0.11	<b>U</b>
64-17-5	Ethanol	<b>2.4</b>	12	1.9	0.83	<b>J</b>
67-64-1	Acetone	<b>10</b>	9.2	4.8	2.1	
75-69-4	Trichlorofluoromethane	<b>0.21</b>	0.38	0.24	0.061	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.7	1.1	0.38	<b>U</b>
75-09-2	Methylene Chloride	0.39	0.63	0.39	0.18	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.066</b>	0.29	0.093	0.042	<b>J</b>
75-15-0	Carbon Disulfide	<b>0.59</b>	1.3	0.73	0.22	<b>J</b>
75-34-3	1,1-Dichloroethane	0.34	0.56	0.34	0.081	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.2</b>	1.4	0.46	0.16	
141-78-6	Ethyl Acetate	0.76	1.2	0.76	0.33	<b>U</b>
110-54-3	n-Hexane	0.38	0.62	0.38	0.13	<b>U</b>
67-66-3	Chloroform	<b>0.18</b>	0.46	0.15	0.061	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>25</b>	1.4	0.24	0.095	
107-06-2	1,2-Dichloroethane	0.18	0.54	0.18	0.061	<b>U</b>
71-43-2	Benzene	<b>0.20</b>	0.68	0.22	0.10	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.33</b>	0.34	0.11	0.049	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV115-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-003

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00935

Initial Pressure (psig): -2.35 Final Pressure (psig): 6.00

Container Dilution Factor: 1.68

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.42	1.2	0.42	0.18	U
75-27-4	Bromodichloromethane	0.11	0.33	0.11	0.048	U
79-01-6	Trichloroethene	0.13	0.40	0.13	0.056	U
123-91-1	1,4-Dioxane	0.20	0.61	0.20	0.073	U
142-82-5	n-Heptane	<b>0.13</b>	0.53	0.33	0.087	J
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.075	U
108-88-3	Toluene	<b>0.69</b>	0.58	0.19	0.072	J
591-78-6	2-Hexanone	<b>0.25</b>	1.0	0.17	0.068	J
124-48-1	Dibromochloromethane	0.084	0.26	0.084	0.035	U
106-93-4	1,2-Dibromoethane	0.093	0.28	0.093	0.034	U
127-18-4	Tetrachloroethene	<b>0.10</b>	0.32	0.11	0.043	J
100-41-4	Ethylbenzene	<b>0.15</b>	0.50	0.16	0.073	J
179601-23-1	m,p-Xylenes	<b>0.58</b>	0.97	0.33	0.14	J
75-25-2	Bromoform	0.13	0.22	0.13	0.045	U
100-42-5	Styrene	0.32	0.51	0.32	0.085	U
95-47-6	o-Xylene	<b>0.22</b>	0.51	0.16	0.074	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.22</b>	0.45	0.15	0.066	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.33</b>	0.44	0.15	0.063	J
120-82-1	1,2,4-Trichlorobenzene	0.18	0.57	0.18	0.074	U
91-20-3	Naphthalene	0.25	0.42	0.25	0.10	U
1330-20-7	Xylenes, Total	<b>0.79</b>	0.97	0.33	0.14	J

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00039

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.11 Final Pressure (psig): 5.92

Container Dilution Factor: 1.95

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.56</b>	1.5	0.91	0.37	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.34</b>	0.51	0.32	0.086	<b>J</b>
74-87-3	Chloromethane	0.76	1.2	0.76	0.20	<b>U</b>
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.71	1.1	0.71	0.19	<b>U</b>
75-00-3	Chloroethane	0.59	0.96	0.59	0.12	<b>U</b>
64-17-5	Ethanol	<b>4.3</b>	14	2.1	0.96	<b>J</b>
67-64-1	Acetone	<b>5.5</b>	11	5.5	2.5	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.21</b>	0.44	0.28	0.070	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.44	<b>U</b>
75-09-2	Methylene Chloride	0.45	0.73	0.45	0.21	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.12</b>	0.34	0.11	0.048	<b>J</b>
75-15-0	Carbon Disulfide	<b>4.8</b>	1.6	0.85	0.25	
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.5</b>	1.7	0.53	0.18	<b>J</b>
141-78-6	Ethyl Acetate	<b>0.40</b>	1.4	0.88	0.38	<b>J</b>
110-54-3	n-Hexane	<b>0.16</b>	0.72	0.44	0.15	<b>J</b>
67-66-3	Chloroform	<b>0.55</b>	0.53	0.17	0.071	
109-99-9	Tetrahydrofuran (THF)	<b>1.9</b>	1.7	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.63	0.20	0.071	<b>U</b>
71-43-2	Benzene	<b>0.31</b>	0.79	0.26	0.12	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>2.1</b>	0.40	0.13	0.057	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV115-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-004

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00039

Initial Pressure (psig): -4.11 Final Pressure (psig): 5.92

Container Dilution Factor: 1.95

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.48	1.4	0.48	0.21	U
75-27-4	Bromodichloromethane	0.12	0.38	0.12	0.056	U
79-01-6	Trichloroethene	<b>0.072</b>	0.46	0.15	0.065	J
123-91-1	1,4-Dioxane	<b>0.16</b>	0.70	0.23	0.085	J
142-82-5	n-Heptane	<b>0.27</b>	0.62	0.38	0.10	J
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.087	U
108-88-3	Toluene	<b>1.4</b>	0.67	0.22	0.084	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.079	U
124-48-1	Dibromochloromethane	0.097	0.30	0.097	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.32</b>	0.37	0.12	0.050	J
100-41-4	Ethylbenzene	<b>0.18</b>	0.58	0.19	0.084	J
179601-23-1	m,p-Xylenes	<b>0.79</b>	1.1	0.38	0.16	J
75-25-2	Bromoform	0.15	0.25	0.15	0.052	U
100-42-5	Styrene	0.37	0.60	0.37	0.099	U
95-47-6	o-Xylene	<b>0.34</b>	0.60	0.19	0.086	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.29</b>	0.53	0.17	0.076	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.41</b>	0.52	0.17	0.073	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.66	0.21	0.085	U
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	U
1330-20-7	Xylenes, Total	<b>1.1</b>	1.1	0.38	0.16	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00764

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.95 Final Pressure (psig): 6.46

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.45</b>	1.5	0.92	0.37	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.15</b>	0.52	0.32	0.087	<b>J</b>
74-87-3	Chloromethane	0.76	1.2	0.76	0.21	<b>U</b>
75-01-4	Vinyl Chloride	0.33	1.0	0.33	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.71	1.2	0.71	0.20	<b>U</b>
75-00-3	Chloroethane	0.60	0.97	0.60	0.12	<b>U</b>
64-17-5	Ethanol	<b>2.2</b>	14	2.2	0.97	<b>J</b>
67-64-1	Acetone	<b>5.3</b>	11	5.6	2.5	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.14</b>	0.45	0.28	0.071	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.0	1.3	0.44	<b>U</b>
75-09-2	Methylene Chloride	0.45	0.74	0.45	0.21	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.13</b>	0.34	0.11	0.049	<b>J</b>
75-15-0	Carbon Disulfide	<b>0.55</b>	1.6	0.85	0.25	<b>J</b>
75-34-3	1,1-Dichloroethane	0.40	0.66	0.40	0.095	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.3</b>	1.7	0.53	0.18	<b>J</b>
141-78-6	Ethyl Acetate	0.89	1.4	0.89	0.38	<b>U</b>
110-54-3	n-Hexane	0.45	0.73	0.45	0.15	<b>U</b>
67-66-3	Chloroform	0.17	0.53	0.17	0.072	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>0.41</b>	1.7	0.28	0.11	<b>J</b>
107-06-2	1,2-Dichloroethane	0.21	0.63	0.21	0.072	<b>U</b>
71-43-2	Benzene	<b>0.26</b>	0.80	0.26	0.12	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.14</b>	0.40	0.13	0.058	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00764

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.95 Final Pressure (psig): 6.46

Container Dilution Factor: 1.97

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.49	1.4	0.49	0.21	U
75-27-4	Bromodichloromethane	0.13	0.38	0.13	0.057	U
79-01-6	Trichloroethene	<b>0.16</b>	0.47	0.16	0.066	J
123-91-1	1,4-Dioxane	0.23	0.71	0.23	0.086	U
142-82-5	n-Heptane	<b>0.15</b>	0.63	0.38	0.10	J
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.088	U
108-88-3	Toluene	<b>0.81</b>	0.68	0.22	0.085	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.079	U
124-48-1	Dibromochloromethane	0.098	0.30	0.098	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.040	U
127-18-4	Tetrachloroethene	0.12	0.38	0.12	0.050	U
100-41-4	Ethylbenzene	<b>0.10</b>	0.59	0.19	0.085	J
179601-23-1	m,p-Xylenes	<b>0.49</b>	1.1	0.39	0.16	J
75-25-2	Bromoform	0.15	0.25	0.15	0.052	U
100-42-5	Styrene	0.37	0.60	0.37	0.10	U
95-47-6	o-Xylene	<b>0.21</b>	0.60	0.19	0.087	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.17</b>	0.53	0.17	0.077	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.25</b>	0.52	0.17	0.074	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.66	0.21	0.086	U
91-20-3	Naphthalene	0.29	0.49	0.29	0.12	U
1330-20-7	Xylenes, Total	<b>0.70</b>	1.1	0.39	0.16	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01027

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.09 Final Pressure (psig): 6.01

Container Dilution Factor: 1.78

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.47	1.3	0.83	0.34	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.29	0.47	0.29	0.078	U
74-87-3	Chloromethane	0.69	1.1	0.69	0.19	U
75-01-4	Vinyl Chloride	0.30	0.92	0.30	0.099	U
106-99-0	1,3-Butadiene	0.64	1.0	0.64	0.18	U
75-00-3	Chloroethane	0.54	0.88	0.54	0.11	U
64-17-5	Ethanol	1.8	13	2.0	0.87	J
67-64-1	Acetone	9.3	9.7	5.1	2.2	J
75-69-4	Trichlorofluoromethane	0.25	0.40	0.25	0.064	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.40	U
75-09-2	Methylene Chloride	0.41	0.67	0.41	0.19	U
76-13-1	Trichlorotrifluoroethane	0.099	0.31	0.099	0.044	U
75-15-0	Carbon Disulfide	4.5	1.4	0.77	0.23	
75-34-3	1,1-Dichloroethane	0.36	0.59	0.36	0.086	U
78-93-3	2-Butanone (MEK)	1.2	1.5	0.48	0.17	J
141-78-6	Ethyl Acetate	0.80	1.2	0.80	0.35	U
110-54-3	n-Hexane	0.40	0.66	0.40	0.14	U
67-66-3	Chloroform	0.069	0.48	0.15	0.065	J
109-99-9	Tetrahydrofuran (THF)	9.1	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.57	0.19	0.065	U
71-43-2	Benzene	0.50	0.72	0.24	0.11	J
56-23-5	Carbon Tetrachloride	0.12	0.36	0.12	0.052	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-006

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01027

Initial Pressure (psig): -3.09 Final Pressure (psig): 6.01

Container Dilution Factor: 1.78

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.44	1.3	0.44	0.19	U
75-27-4	Bromodichloromethane	0.11	0.35	0.11	0.051	U
79-01-6	Trichloroethene	<b>2.1</b>	0.42	0.14	0.060	
123-91-1	1,4-Dioxane	0.21	0.64	0.21	0.078	U
142-82-5	n-Heptane	<b>0.20</b>	0.56	0.35	0.092	J
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.079	U
108-88-3	Toluene	<b>1.1</b>	0.61	0.20	0.077	
591-78-6	2-Hexanone	<b>0.12</b>	1.1	0.18	0.072	J
124-48-1	Dibromochloromethane	0.089	0.27	0.089	0.037	U
106-93-4	1,2-Dibromoethane	0.098	0.30	0.098	0.036	U
127-18-4	Tetrachloroethene	<b>0.054</b>	0.34	0.11	0.045	J
100-41-4	Ethylbenzene	<b>0.13</b>	0.53	0.17	0.077	J
179601-23-1	m,p-Xylenes	<b>0.63</b>	1.0	0.35	0.14	J
75-25-2	Bromoform	0.14	0.23	0.14	0.047	U
100-42-5	Styrene	0.33	0.54	0.33	0.090	U
95-47-6	o-Xylene	<b>0.25</b>	0.54	0.17	0.079	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.19</b>	0.48	0.15	0.070	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.28</b>	0.47	0.15	0.067	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.60	0.19	0.078	U
91-20-3	Naphthalene	<b>0.47</b>	0.44	0.26	0.11	
1330-20-7	Xylenes, Total	<b>0.89</b>	1.0	0.35	0.14	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00158

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0050 Liter(s)

Initial Pressure (psig): -2.83 Final Pressure (psig): 6.04

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	150	110	65	26	
75-71-8	Dichlorodifluoromethane (CFC 12)	23	37	23	6.2	U
74-87-3	Chloromethane	54	88	54	15	U
75-01-4	Vinyl Chloride	23	73	23	7.8	U
106-99-0	1,3-Butadiene	51	82	51	14	U
75-00-3	Chloroethane	42	69	42	8.8	U
64-17-5	Ethanol	150	980	150	69	U
67-64-1	Acetone	400	770	400	180	U
75-69-4	Trichlorofluoromethane	20	32	20	5.0	U
67-63-0	2-Propanol (Isopropyl Alcohol)	90	140	90	31	U
75-09-2	Methylene Chloride	32	52	32	15	U
76-13-1	Trichlorotrifluoroethane	7.8	24	7.8	3.5	U
75-15-0	Carbon Disulfide	26	110	61	18	J
75-34-3	1,1-Dichloroethane	29	47	29	6.7	U
78-93-3	2-Butanone (MEK)	38	120	38	13	U
141-78-6	Ethyl Acetate	63	97	63	27	U
110-54-3	n-Hexane	330	52	32	11	
67-66-3	Chloroform	12	38	12	5.1	U
109-99-9	Tetrahydrofuran (THF)	25	120	20	8.0	J
107-06-2	1,2-Dichloroethane	15	45	15	5.1	U
71-43-2	Benzene	910	57	19	8.4	
56-23-5	Carbon Tetrachloride	9.5	28	9.5	4.1	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00158

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0050 Liter(s)

Initial Pressure (psig): -2.83 Final Pressure (psig): 6.04

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>850</b>	100	35	15	
75-27-4	Bromodichloromethane	8.9	27	8.9	4.0	U
79-01-6	Trichloroethene	11	33	11	4.7	U
123-91-1	1,4-Dioxane	17	51	17	6.1	U
142-82-5	n-Heptane	<b>28</b>	44	27	7.3	J
108-10-1	4-Methyl-2-pentanone	15	85	15	6.2	U
108-88-3	Toluene	<b>1,200</b>	48	16	6.0	
591-78-6	2-Hexanone	15	85	15	5.6	U
124-48-1	Dibromochloromethane	7.0	21	7.0	2.9	U
106-93-4	1,2-Dibromoethane	7.7	24	7.7	2.8	U
127-18-4	Tetrachloroethene	8.8	27	8.8	3.6	U
100-41-4	Ethylbenzene	<b>45</b>	42	14	6.0	
179601-23-1	m,p-Xylenes	<b>120</b>	81	27	11	
75-25-2	Bromoform	11	18	11	3.7	U
100-42-5	Styrene	26	43	26	7.1	U
95-47-6	o-Xylene	<b>52</b>	43	14	6.2	
108-67-8	1,3,5-Trimethylbenzene	<b>12</b>	38	12	5.5	J
95-63-6	1,2,4-Trimethylbenzene	<b>9.8</b>	37	12	5.3	J
120-82-1	1,2,4-Trichlorobenzene	15	47	15	6.1	U
91-20-3	Naphthalene	21	35	21	8.7	U
1330-20-7	Xylenes, Total	<b>170</b>	81	27	11	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00074

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.95 Final Pressure (psig): 7.00

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.46</b>	1.4	0.86	0.35	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.46</b>	0.49	0.30	0.081	<b>J</b>
74-87-3	Chloromethane	0.72	1.2	0.72	0.19	<b>U, V</b>
75-01-4	Vinyl Chloride	0.31	0.96	0.31	0.10	<b>U</b>
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.18	<b>U</b>
75-00-3	Chloroethane	0.56	0.91	0.56	0.12	<b>U</b>
64-17-5	Ethanol	<b>1.2</b>	13	2.0	0.91	<b>J</b>
67-64-1	Acetone	<b>6.3</b>	10	5.3	2.3	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.20</b>	0.42	0.26	0.067	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	<b>U</b>
75-09-2	Methylene Chloride	0.43	0.69	0.43	0.20	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.060</b>	0.32	0.10	0.046	<b>J</b>
75-15-0	Carbon Disulfide	<b>8.2</b>	1.5	0.80	0.24	
75-34-3	1,1-Dichloroethane	0.38	0.62	0.38	0.089	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.7</b>	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	<b>U</b>
110-54-3	n-Hexane	<b>0.43</b>	0.68	0.42	0.14	<b>J</b>
67-66-3	Chloroform	<b>26</b>	0.50	0.16	0.067	
109-99-9	Tetrahydrofuran (THF)	<b>1.4</b>	1.6	0.27	0.11	<b>J</b>
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	<b>U</b>
71-43-2	Benzene	<b>0.49</b>	0.75	0.25	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.19</b>	0.38	0.13	0.054	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-008

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/3/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00074

Initial Pressure (psig): -2.95 Final Pressure (psig): 7.00

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.46	1.3	0.46	0.20	U
75-27-4	Bromodichloromethane	5.5	0.36	0.12	0.053	
79-01-6	Trichloroethene	0.10	0.44	0.15	0.062	J
123-91-1	1,4-Dioxane	0.32	0.67	0.22	0.081	J
142-82-5	n-Heptane	0.72	0.59	0.36	0.096	
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.082	U
108-88-3	Toluene	2.7	0.64	0.21	0.080	
591-78-6	2-Hexanone	0.34	1.1	0.19	0.075	J
124-48-1	Dibromochloromethane	0.14	0.28	0.092	0.038	J
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	0.26	0.35	0.12	0.047	J
100-41-4	Ethylbenzene	0.39	0.55	0.18	0.080	J
179601-23-1	m,p-Xylenes	1.7	1.1	0.36	0.15	
75-25-2	Bromoform	0.14	0.24	0.14	0.049	U
100-42-5	Styrene	0.16	0.57	0.35	0.093	J
95-47-6	o-Xylene	0.50	0.56	0.18	0.082	J
108-67-8	1,3,5-Trimethylbenzene	0.15	0.50	0.16	0.072	J
95-63-6	1,2,4-Trimethylbenzene	0.47	0.49	0.16	0.070	J
120-82-1	1,2,4-Trichlorobenzene	0.090	0.62	0.20	0.081	J
91-20-3	Naphthalene	0.20	0.46	0.27	0.11	J
1330-20-7	Xylenes, Total	2.2	1.1	0.36	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-025-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00257

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.20 Final Pressure (psig): 6.23

Container Dilution Factor: 1.67

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.40</b>	1.3	0.78	0.32	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.45</b>	0.44	0.27	0.073	
74-87-3	Chloromethane	0.65	1.1	0.65	0.17	<b>U</b>
75-01-4	Vinyl Chloride	0.28	0.87	0.28	0.093	<b>U</b>
106-99-0	1,3-Butadiene	0.60	0.98	0.60	0.17	<b>U</b>
75-00-3	Chloroethane	0.51	0.82	0.51	0.10	<b>U</b>
64-17-5	Ethanol	<b>1.6</b>	12	1.8	0.82	<b>J</b>
67-64-1	Acetone	<b>5.3</b>	9.1	4.7	2.1	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.19</b>	0.38	0.24	0.060	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.7	1.1	0.37	<b>U</b>
75-09-2	Methylene Chloride	0.38	0.63	0.38	0.18	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.054</b>	0.29	0.093	0.041	<b>J</b>
75-15-0	Carbon Disulfide	<b>0.57</b>	1.3	0.72	0.21	<b>J</b>
75-34-3	1,1-Dichloroethane	0.34	0.56	0.34	0.080	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>0.74</b>	1.4	0.45	0.16	<b>J</b>
141-78-6	Ethyl Acetate	0.75	1.2	0.75	0.32	<b>U</b>
110-54-3	n-Hexane	<b>0.19</b>	0.62	0.38	0.13	<b>J</b>
67-66-3	Chloroform	<b>26</b>	0.45	0.15	0.061	
109-99-9	Tetrahydrofuran (THF)	<b>0.48</b>	1.4	0.24	0.095	<b>J</b>
107-06-2	1,2-Dichloroethane	0.18	0.54	0.18	0.061	<b>U</b>
71-43-2	Benzene	<b>0.27</b>	0.68	0.22	0.10	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.17</b>	0.34	0.11	0.049	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-025-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00257

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.20 Final Pressure (psig): 6.23

Container Dilution Factor: 1.67

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.41	1.2	0.41	0.18	U
75-27-4	Bromodichloromethane	<b>5.7</b>	0.32	0.11	0.048	
79-01-6	Trichloroethene	<b>0.10</b>	0.40	0.13	0.056	J
123-91-1	1,4-Dioxane	0.20	0.60	0.20	0.073	U
142-82-5	n-Heptane	<b>0.30</b>	0.53	0.33	0.087	J
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.074	U
108-88-3	Toluene	<b>1.4</b>	0.58	0.19	0.072	
591-78-6	2-Hexanone	<b>0.13</b>	1.0	0.17	0.067	J
124-48-1	Dibromochloromethane	<b>0.15</b>	0.25	0.083	0.034	J
106-93-4	1,2-Dibromoethane	0.092	0.28	0.092	0.034	U
127-18-4	Tetrachloroethene	<b>0.26</b>	0.32	0.10	0.042	J
100-41-4	Ethylbenzene	<b>0.18</b>	0.50	0.16	0.072	J
179601-23-1	m,p-Xylenes	<b>0.73</b>	0.96	0.33	0.13	J
75-25-2	Bromoform	0.13	0.21	0.13	0.044	U
100-42-5	Styrene	0.31	0.51	0.31	0.084	U
95-47-6	o-Xylene	<b>0.23</b>	0.51	0.16	0.074	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.066</b>	0.45	0.14	0.065	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.21</b>	0.44	0.14	0.063	J
120-82-1	1,2,4-Trichlorobenzene	0.18	0.56	0.18	0.073	U
91-20-3	Naphthalene	0.25	0.41	0.25	0.10	U
1330-20-7	Xylenes, Total	<b>0.96</b>	0.96	0.33	0.13	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00534

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.85 Final Pressure (psig): 6.41

Container Dilution Factor: 1.78

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.83	1.3	0.83	0.34	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.65</b>	0.47	0.29	0.078	
74-87-3	Chloromethane	0.69	1.1	0.69	0.19	U
75-01-4	Vinyl Chloride	0.30	0.92	0.30	0.099	U
106-99-0	1,3-Butadiene	0.64	1.0	0.64	0.18	U
75-00-3	Chloroethane	0.54	0.88	0.54	0.11	U
64-17-5	Ethanol	<b>1.0</b>	13	2.0	0.87	J
67-64-1	Acetone	<b>33</b>	9.7	5.1	2.2	
75-69-4	Trichlorofluoromethane	<b>0.20</b>	0.40	0.25	0.064	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.40	U
75-09-2	Methylene Chloride	<b>1.9</b>	0.67	0.41	0.19	
76-13-1	Trichlorotrifluoroethane	<b>0.11</b>	0.31	0.099	0.044	J
75-15-0	Carbon Disulfide	<b>0.61</b>	1.4	0.77	0.23	J
75-34-3	1,1-Dichloroethane	0.36	0.59	0.36	0.086	U
78-93-3	2-Butanone (MEK)	<b>48</b>	1.5	0.48	0.17	
141-78-6	Ethyl Acetate	0.80	1.2	0.80	0.35	U
110-54-3	n-Hexane	0.40	0.66	0.40	0.14	U
67-66-3	Chloroform	<b>240</b>	4.8	1.5	0.65	D
109-99-9	Tetrahydrofuran (THF)	<b>83</b>	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.57	0.19	0.065	U
71-43-2	Benzene	0.24	0.72	0.24	0.11	U
56-23-5	Carbon Tetrachloride	<b>3.2</b>	0.36	0.12	0.052	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00534

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.85 Final Pressure (psig): 6.41

Container Dilution Factor: 1.78

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.44	1.3	0.44	0.19	U
75-27-4	Bromodichloromethane	<b>70</b>	3.5	1.1	0.51	D
79-01-6	Trichloroethene	<b>0.94</b>	0.42	0.14	0.060	
123-91-1	1,4-Dioxane	0.21	0.64	0.21	0.078	U
142-82-5	n-Heptane	0.35	0.56	0.35	0.092	U
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.079	U
108-88-3	Toluene	<b>0.21</b>	0.61	0.20	0.077	J
591-78-6	2-Hexanone	0.18	1.1	0.18	0.072	U
124-48-1	Dibromochloromethane	<b>11</b>	0.27	0.089	0.037	
106-93-4	1,2-Dibromoethane	0.098	0.30	0.098	0.036	U
127-18-4	Tetrachloroethene	<b>1.6</b>	0.34	0.11	0.045	
100-41-4	Ethylbenzene	0.17	0.53	0.17	0.077	U
179601-23-1	m,p-Xylenes	0.35	1.0	0.35	0.14	U
75-25-2	Bromoform	<b>0.077</b>	0.23	0.14	0.047	J
100-42-5	Styrene	0.33	0.54	0.33	0.090	U
95-47-6	o-Xylene	0.17	0.54	0.17	0.079	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.48	0.15	0.070	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.47	0.15	0.067	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.60	0.19	0.078	U
91-20-3	Naphthalene	0.26	0.44	0.26	0.11	U
1330-20-7	Xylenes, Total	0.35	1.0	0.35	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00959

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.08 Final Pressure (psig): 7.03

Container Dilution Factor: 1.72

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.80</b>	1.3	0.80	0.32	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>3.2</b>	0.45	0.28	0.076	
74-87-3	Chloromethane	<b>0.25</b>	1.1	0.67	0.18	<b>J</b>
75-01-4	Vinyl Chloride	0.29	0.89	0.29	0.096	<b>U</b>
106-99-0	1,3-Butadiene	0.62	1.0	0.62	0.17	<b>U</b>
75-00-3	Chloroethane	0.52	0.85	0.52	0.11	<b>U</b>
64-17-5	Ethanol	<b>3.4</b>	12	1.9	0.84	<b>J</b>
67-64-1	Acetone	<b>22</b>	9.4	4.9	2.2	
75-69-4	Trichlorofluoromethane	<b>0.26</b>	0.39	0.24	0.062	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.45</b>	1.8	1.1	0.39	<b>J</b>
75-09-2	Methylene Chloride	0.40	0.64	0.40	0.19	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.19</b>	0.30	0.095	0.043	<b>J</b>
75-15-0	Carbon Disulfide	<b>1.6</b>	1.4	0.75	0.22	
75-34-3	1,1-Dichloroethane	0.35	0.57	0.35	0.083	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>3.6</b>	1.5	0.47	0.16	
141-78-6	Ethyl Acetate	<b>0.35</b>	1.2	0.78	0.33	<b>J</b>
110-54-3	n-Hexane	0.39	0.63	0.39	0.13	<b>U</b>
67-66-3	Chloroform	<b>11</b>	0.47	0.15	0.063	
109-99-9	Tetrahydrofuran (THF)	<b>2.3</b>	1.5	0.25	0.098	
107-06-2	1,2-Dichloroethane	0.18	0.55	0.18	0.063	<b>U</b>
71-43-2	Benzene	0.23	0.70	0.23	0.10	<b>U</b>
56-23-5	Carbon Tetrachloride	<b>4.3</b>	0.35	0.12	0.051	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00959

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.08 Final Pressure (psig): 7.03

Container Dilution Factor: 1.72

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.42	1.2	0.42	0.19	U
75-27-4	Bromodichloromethane	<b>0.99</b>	0.33	0.11	0.049	
79-01-6	Trichloroethene	<b>0.058</b>	0.41	0.14	0.058	J
123-91-1	1,4-Dioxane	<b>0.30</b>	0.62	0.20	0.075	J
142-82-5	n-Heptane	0.34	0.55	0.34	0.089	U
108-10-1	4-Methyl-2-pentanone	<b>0.14</b>	1.0	0.18	0.077	J
108-88-3	Toluene	<b>0.21</b>	0.59	0.19	0.074	J
591-78-6	2-Hexanone	<b>0.63</b>	1.1	0.18	0.069	J
124-48-1	Dibromochloromethane	0.086	0.26	0.086	0.035	U
106-93-4	1,2-Dibromoethane	0.095	0.29	0.095	0.035	U
127-18-4	Tetrachloroethene	<b>0.63</b>	0.33	0.11	0.044	
100-41-4	Ethylbenzene	0.17	0.51	0.17	0.074	U
179601-23-1	m,p-Xylenes	0.34	0.99	0.34	0.14	U
75-25-2	Bromoform	0.13	0.22	0.13	0.046	U
100-42-5	Styrene	0.32	0.53	0.32	0.087	U
95-47-6	o-Xylene	0.17	0.52	0.17	0.076	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.46	0.15	0.067	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.46	0.15	0.065	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.58	0.19	0.075	U
91-20-3	Naphthalene	0.25	0.43	0.25	0.11	U
1330-20-7	Xylenes, Total	0.34	0.99	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01370

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.18 Final Pressure (psig): 6.70

Container Dilution Factor: 1.71

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.80	1.3	0.80	0.32	U
75-71-8	Dichlorodifluoromethane (CFC 12)	4.7	0.45	0.28	0.075	
74-87-3	Chloromethane	0.66	1.1	0.66	0.18	U
75-01-4	Vinyl Chloride	0.28	0.89	0.28	0.095	U
106-99-0	1,3-Butadiene	0.62	1.0	0.62	0.17	U
75-00-3	Chloroethane	0.52	0.84	0.52	0.11	U
64-17-5	Ethanol	1.3	12	1.9	0.84	J
67-64-1	Acetone	3.4	9.4	4.9	2.2	J
75-69-4	Trichlorofluoromethane	0.33	0.39	0.24	0.062	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.7	1.1	0.38	U
75-09-2	Methylene Chloride	0.39	0.64	0.39	0.18	U
76-13-1	Trichlorotrifluoroethane	0.17	0.30	0.095	0.042	J
75-15-0	Carbon Disulfide	2.2	1.4	0.74	0.22	
75-34-3	1,1-Dichloroethane	0.35	0.57	0.35	0.082	U
78-93-3	2-Butanone (MEK)	0.41	1.5	0.46	0.16	J
141-78-6	Ethyl Acetate	0.77	1.2	0.77	0.33	U
110-54-3	n-Hexane	0.39	0.63	0.39	0.13	U
67-66-3	Chloroform	0.70	0.46	0.15	0.062	
109-99-9	Tetrahydrofuran (THF)	5.3	1.5	0.25	0.097	
107-06-2	1,2-Dichloroethane	0.18	0.55	0.18	0.062	U
71-43-2	Benzene	0.14	0.70	0.23	0.10	J
56-23-5	Carbon Tetrachloride	0.79	0.35	0.12	0.050	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01370

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.18 Final Pressure (psig): 6.70

Container Dilution Factor: 1.71

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.42	1.2	0.42	0.19	U
75-27-4	Bromodichloromethane	<b>0.081</b>	0.33	0.11	0.049	J
79-01-6	Trichloroethene	0.14	0.41	0.14	0.057	U
123-91-1	1,4-Dioxane	0.20	0.62	0.20	0.075	U
142-82-5	n-Heptane	0.33	0.54	0.33	0.089	U
108-10-1	4-Methyl-2-pentanone	0.18	1.0	0.18	0.076	U
108-88-3	Toluene	<b>0.17</b>	0.59	0.19	0.074	J
591-78-6	2-Hexanone	0.18	1.0	0.18	0.069	U
124-48-1	Dibromochloromethane	0.085	0.26	0.085	0.035	U
106-93-4	1,2-Dibromoethane	0.095	0.29	0.095	0.035	U
127-18-4	Tetrachloroethene	<b>0.066</b>	0.33	0.11	0.044	J
100-41-4	Ethylbenzene	<b>0.21</b>	0.51	0.17	0.074	J
179601-23-1	m,p-Xylenes	0.33	0.98	0.33	0.14	U
75-25-2	Bromoform	0.13	0.22	0.13	0.045	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.52	0.17	0.076	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.46	0.15	0.067	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.45	0.15	0.064	U
120-82-1	1,2,4-Trichlorobenzene	0.18	0.58	0.18	0.075	U
91-20-3	Naphthalene	<b>0.22</b>	0.42	0.25	0.11	J
1330-20-7	Xylenes, Total	0.33	0.98	0.33	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00692

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.080 Liter(s)

Initial Pressure (psig): -2.21 Final Pressure (psig): 8.03

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	15	6.9	4.2	1.7	
75-71-8	Dichlorodifluoromethane (CFC 12)	41	2.4	1.5	0.40	
74-87-3	Chloromethane	3.5	5.7	3.5	0.95	U, V
75-01-4	Vinyl Chloride	1.5	4.7	1.5	0.51	U
106-99-0	1,3-Butadiene	3.3	5.3	3.3	0.91	U
75-00-3	Chloroethane	2.8	4.5	2.8	0.57	U
64-17-5	Ethanol	5.1	64	10	4.5	J
67-64-1	Acetone	26	50	26	11	U
75-69-4	Trichlorofluoromethane	3.8	2.1	1.3	0.33	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.8	9.3	5.8	2.0	U
75-09-2	Methylene Chloride	2.1	3.4	2.1	0.98	U
76-13-1	Trichlorotrifluoroethane	0.71	1.6	0.50	0.23	J
75-15-0	Carbon Disulfide	2.7	7.3	3.9	1.2	J
75-34-3	1,1-Dichloroethane	1.9	3.0	1.9	0.44	U
78-93-3	2-Butanone (MEK)	3.5	7.7	2.5	0.85	J
141-78-6	Ethyl Acetate	1.8	6.3	4.1	1.8	J
110-54-3	n-Hexane	21	3.4	2.1	0.71	
67-66-3	Chloroform	0.79	2.5	0.79	0.33	U
109-99-9	Tetrahydrofuran (THF)	1.3	7.7	1.3	0.52	U
107-06-2	1,2-Dichloroethane	0.96	2.9	0.96	0.33	U
71-43-2	Benzene	56	3.7	1.2	0.55	
56-23-5	Carbon Tetrachloride	0.62	1.8	0.62	0.27	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00692

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.080 Liter(s)

Initial Pressure (psig): -2.21 Final Pressure (psig): 8.03

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>61</b>	6.6	2.2	0.99	
75-27-4	Bromodichloromethane	0.58	1.8	0.58	0.26	U
79-01-6	Trichloroethene	0.72	2.2	0.72	0.30	U
123-91-1	1,4-Dioxane	1.1	3.3	1.1	0.40	U
142-82-5	n-Heptane	<b>0.51</b>	2.9	1.8	0.47	J
108-10-1	4-Methyl-2-pentanone	0.94	5.6	0.94	0.41	U
108-88-3	Toluene	<b>3.5</b>	3.1	1.0	0.39	
591-78-6	2-Hexanone	0.94	5.6	0.94	0.37	U
124-48-1	Dibromochloromethane	0.45	1.4	0.45	0.19	U
106-93-4	1,2-Dibromoethane	0.50	1.5	0.50	0.18	U
127-18-4	Tetrachloroethene	0.57	1.7	0.57	0.23	U
100-41-4	Ethylbenzene	0.89	2.7	0.89	0.39	U
179601-23-1	m,p-Xylenes	<b>1.1</b>	5.2	1.8	0.73	J
75-25-2	Bromoform	0.70	1.2	0.70	0.24	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	<b>0.99</b>	2.8	0.89	0.40	J
108-67-8	1,3,5-Trimethylbenzene	0.79	2.5	0.79	0.36	U
95-63-6	1,2,4-Trimethylbenzene	0.79	2.4	0.79	0.34	U
120-82-1	1,2,4-Trichlorobenzene	0.98	3.1	0.98	0.40	U
91-20-3	Naphthalene	1.3	2.3	1.3	0.56	U
1330-20-7	Xylenes, Total	<b>2.1</b>	5.2	1.8	0.73	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00070

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.025 Liter(s)

Initial Pressure (psig): -3.40 Final Pressure (psig): 5.98

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	6.3	22	14	5.5	J
75-71-8	Dichlorodifluoromethane (CFC 12)	21	7.7	4.7	1.3	
74-87-3	Chloromethane	11	18	11	3.0	J, V
75-01-4	Vinyl Chloride	3.6	15	4.9	1.6	J
106-99-0	1,3-Butadiene	11	17	11	2.9	U
75-00-3	Chloroethane	2.9	14	8.9	1.8	J
64-17-5	Ethanol	32	210	32	14	U
67-64-1	Acetone	83	160	83	37	U
75-69-4	Trichlorofluoromethane	2.0	6.6	4.2	1.1	J
67-63-0	2-Propanol (Isopropyl Alcohol)	19	30	19	6.6	U
75-09-2	Methylene Chloride	6.7	11	6.7	3.2	U
76-13-1	Trichlorotrifluoroethane	1.6	5.1	1.6	0.73	U
75-15-0	Carbon Disulfide	66	24	13	3.8	
75-34-3	1,1-Dichloroethane	6.0	9.8	6.0	1.4	U
78-93-3	2-Butanone (MEK)	7.9	25	7.9	2.7	U
141-78-6	Ethyl Acetate	13	20	13	5.7	U
110-54-3	n-Hexane	7.7	11	6.6	2.3	J
67-66-3	Chloroform	2.5	7.9	2.5	1.1	U
109-99-9	Tetrahydrofuran (THF)	7.2	25	4.2	1.7	J
107-06-2	1,2-Dichloroethane	3.1	9.4	3.1	1.1	U
71-43-2	Benzene	38	12	3.9	1.8	
56-23-5	Carbon Tetrachloride	2.0	5.9	2.0	0.86	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00070

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.025 Liter(s)

Initial Pressure (psig): -3.40 Final Pressure (psig): 5.98

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>7.9</b>	21	7.2	3.2	<b>J</b>
75-27-4	Bromodichloromethane	1.9	5.7	1.9	0.84	<b>U</b>
79-01-6	Trichloroethene	2.3	6.9	2.3	0.98	<b>U</b>
123-91-1	1,4-Dioxane	3.5	11	3.5	1.3	<b>U</b>
142-82-5	n-Heptane	5.7	9.3	5.7	1.5	<b>U</b>
108-10-1	4-Methyl-2-pentanone	3.0	18	3.0	1.3	<b>U</b>
108-88-3	Toluene	<b>42</b>	10	3.3	1.3	<b>J</b>
591-78-6	2-Hexanone	3.0	18	3.0	1.2	<b>U</b>
124-48-1	Dibromochloromethane	1.5	4.5	1.5	0.60	<b>U</b>
106-93-4	1,2-Dibromoethane	1.6	5.0	1.6	0.59	<b>U</b>
127-18-4	Tetrachloroethene	1.8	5.6	1.8	0.75	<b>U</b>
100-41-4	Ethylbenzene	<b>2.0</b>	8.8	2.9	1.3	<b>J</b>
179601-23-1	m,p-Xylenes	<b>3.8</b>	17	5.7	2.4	<b>J</b>
75-25-2	Bromoform	2.3	3.8	2.3	0.78	<b>U</b>
100-42-5	Styrene	5.5	8.9	5.5	1.5	<b>U</b>
95-47-6	o-Xylene	<b>2.7</b>	8.9	2.9	1.3	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>1.5</b>	7.9	2.5	1.1	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	2.5	7.7	2.5	1.1	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	3.2	9.9	3.2	1.3	<b>U</b>
91-20-3	Naphthalene	4.3	7.3	4.3	1.8	<b>U</b>
1330-20-7	Xylenes, Total	<b>6.5</b>	17	5.7	2.4	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01194

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 6.11

Container Dilution Factor: 1.73

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.80	1.3	0.80	0.33	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.69</b>	0.46	0.28	0.076	
74-87-3	Chloromethane	0.67	1.1	0.67	0.18	U
75-01-4	Vinyl Chloride	0.29	0.90	0.29	0.096	U
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	U
75-00-3	Chloroethane	0.52	0.85	0.52	0.11	U
64-17-5	Ethanol	<b>44</b>	12	1.9	0.85	
67-64-1	Acetone	<b>5.0</b>	9.5	4.9	2.2	J
75-69-4	Trichlorofluoromethane	<b>0.21</b>	0.39	0.25	0.062	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	U
75-09-2	Methylene Chloride	0.40	0.65	0.40	0.19	U
76-13-1	Trichlorotrifluoroethane	<b>0.085</b>	0.30	0.096	0.043	J
75-15-0	Carbon Disulfide	<b>0.25</b>	1.4	0.75	0.22	J
75-34-3	1,1-Dichloroethane	0.35	0.58	0.35	0.083	U
78-93-3	2-Butanone (MEK)	0.47	1.5	0.47	0.16	U
141-78-6	Ethyl Acetate	0.78	1.2	0.78	0.34	U
110-54-3	n-Hexane	0.39	0.64	0.39	0.14	U
67-66-3	Chloroform	<b>130</b>	4.7	1.5	0.63	D
109-99-9	Tetrahydrofuran (THF)	0.25	1.5	0.25	0.098	U
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.063	U
71-43-2	Benzene	0.23	0.70	0.23	0.10	U
56-23-5	Carbon Tetrachloride	<b>1.8</b>	0.35	0.12	0.051	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01194

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 6.11

Container Dilution Factor: 1.73

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.43	1.3	0.43	0.19	U
75-27-4	Bromodichloromethane	<b>7.1</b>	0.34	0.11	0.050	
79-01-6	Trichloroethene	<b>0.47</b>	0.41	0.14	0.058	
123-91-1	1,4-Dioxane	0.20	0.62	0.20	0.076	U
142-82-5	n-Heptane	0.34	0.55	0.34	0.090	U
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.077	U
108-88-3	Toluene	<b>0.22</b>	0.60	0.20	0.075	J
591-78-6	2-Hexanone	0.18	1.1	0.18	0.070	U
124-48-1	Dibromochloromethane	<b>0.20</b>	0.26	0.086	0.036	J
106-93-4	1,2-Dibromoethane	0.096	0.29	0.096	0.035	U
127-18-4	Tetrachloroethene	<b>0.69</b>	0.33	0.11	0.044	
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	<b>0.16</b>	1.0	0.34	0.14	J
75-25-2	Bromoform	0.13	0.22	0.13	0.046	U
100-42-5	Styrene	0.33	0.53	0.33	0.087	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.47	0.15	0.068	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.46	0.15	0.065	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.58	0.19	0.076	U
91-20-3	Naphthalene	0.26	0.43	0.26	0.11	U
1330-20-7	Xylenes, Total	<b>0.16</b>	1.0	0.34	0.14	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00715

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.84 Final Pressure (psig): 6.51

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.83	1.4	0.83	0.34	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.72</b>	0.47	0.29	0.079	
74-87-3	Chloromethane	0.69	1.1	0.69	0.19	U
75-01-4	Vinyl Chloride	0.30	0.93	0.30	0.10	U
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	U
75-00-3	Chloroethane	0.54	0.88	0.54	0.11	U
64-17-5	Ethanol	<b>23</b>	13	2.0	0.88	
67-64-1	Acetone	<b>9.8</b>	9.8	5.1	2.3	
75-69-4	Trichlorofluoromethane	<b>0.22</b>	0.41	0.25	0.065	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.40	U
75-09-2	Methylene Chloride	0.41	0.67	0.41	0.19	U
76-13-1	Trichlorotrifluoroethane	<b>0.094</b>	0.31	0.099	0.044	J
75-15-0	Carbon Disulfide	<b>1.1</b>	1.4	0.78	0.23	J
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.086	U
78-93-3	2-Butanone (MEK)	<b>0.79</b>	1.5	0.49	0.17	J
141-78-6	Ethyl Acetate	0.81	1.2	0.81	0.35	U
110-54-3	n-Hexane	0.41	0.66	0.41	0.14	U
67-66-3	Chloroform	<b>140</b>	4.9	1.6	0.65	D
109-99-9	Tetrahydrofuran (THF)	<b>3.1</b>	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.065	U
71-43-2	Benzene	<b>0.13</b>	0.73	0.24	0.11	J
56-23-5	Carbon Tetrachloride	<b>2.2</b>	0.36	0.12	0.053	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00715

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.84 Final Pressure (psig): 6.51

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.44	1.3	0.44	0.20	U
75-27-4	Bromodichloromethane	<b>7.8</b>	0.35	0.11	0.051	
79-01-6	Trichloroethene	<b>0.47</b>	0.42	0.14	0.060	
123-91-1	1,4-Dioxane	0.21	0.65	0.21	0.078	U
142-82-5	n-Heptane	0.35	0.57	0.35	0.093	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.080	U
108-88-3	Toluene	<b>0.37</b>	0.62	0.20	0.077	J
591-78-6	2-Hexanone	0.19	1.1	0.19	0.072	U
124-48-1	Dibromochloromethane	<b>0.27</b>	0.27	0.089	0.037	J
106-93-4	1,2-Dibromoethane	0.099	0.30	0.099	0.036	U
127-18-4	Tetrachloroethene	<b>0.72</b>	0.34	0.11	0.046	
100-41-4	Ethylbenzene	0.18	0.54	0.18	0.077	U
179601-23-1	m,p-Xylenes	<b>0.22</b>	1.0	0.35	0.14	J
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.090	U
95-47-6	o-Xylene	0.18	0.55	0.18	0.079	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.48	0.15	0.070	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.47	0.15	0.067	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.60	0.19	0.078	U
91-20-3	Naphthalene	0.26	0.44	0.26	0.11	U
1330-20-7	Xylenes, Total	<b>0.22</b>	1.0	0.35	0.14	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-145-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01158

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.53 Final Pressure (psig): 5.63

Container Dilution Factor: 1.67

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.51</b>	1.3	0.78	0.32	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>4.5</b>	0.44	0.27	0.073	
74-87-3	Chloromethane	0.65	1.1	0.65	0.17	<b>U</b>
75-01-4	Vinyl Chloride	0.28	0.87	0.28	0.093	<b>U</b>
106-99-0	1,3-Butadiene	0.60	0.98	0.60	0.17	<b>U</b>
75-00-3	Chloroethane	0.51	0.82	0.51	0.10	<b>U</b>
64-17-5	Ethanol	<b>16</b>	12	1.8	0.82	
67-64-1	Acetone	<b>6.5</b>	9.1	4.7	2.1	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.36</b>	0.38	0.24	0.060	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.7	1.1	0.37	<b>U</b>
75-09-2	Methylene Chloride	0.38	0.63	0.38	0.18	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.16</b>	0.29	0.093	0.041	<b>J</b>
75-15-0	Carbon Disulfide	<b>7.3</b>	1.3	0.72	0.21	
75-34-3	1,1-Dichloroethane	0.34	0.56	0.34	0.080	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.9</b>	1.4	0.45	0.16	
141-78-6	Ethyl Acetate	0.75	1.2	0.75	0.32	<b>U</b>
110-54-3	n-Hexane	<b>0.14</b>	0.62	0.38	0.13	<b>J</b>
67-66-3	Chloroform	<b>13</b>	0.45	0.15	0.061	
109-99-9	Tetrahydrofuran (THF)	<b>12</b>	1.4	0.24	0.095	
107-06-2	1,2-Dichloroethane	0.18	0.54	0.18	0.061	<b>U</b>
71-43-2	Benzene	<b>0.29</b>	0.68	0.22	0.10	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>3.1</b>	0.34	0.11	0.049	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV121-145-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-017

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01158

Initial Pressure (psig): -2.53 Final Pressure (psig): 5.63

Container Dilution Factor: 1.67

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.41	1.2	0.41	0.18	U
75-27-4	Bromodichloromethane	<b>0.82</b>	0.32	0.11	0.048	
79-01-6	Trichloroethene	<b>0.083</b>	0.40	0.13	0.056	J
123-91-1	1,4-Dioxane	<b>0.28</b>	0.60	0.20	0.073	J
142-82-5	n-Heptane	<b>0.18</b>	0.53	0.33	0.087	J
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.074	U
108-88-3	Toluene	<b>1.2</b>	0.58	0.19	0.072	
591-78-6	2-Hexanone	0.17	1.0	0.17	0.067	U
124-48-1	Dibromochloromethane	0.083	0.25	0.083	0.034	U
106-93-4	1,2-Dibromoethane	0.092	0.28	0.092	0.034	U
127-18-4	Tetrachloroethene	<b>0.47</b>	0.32	0.10	0.042	
100-41-4	Ethylbenzene	<b>0.21</b>	0.50	0.16	0.072	J
179601-23-1	m,p-Xylenes	<b>1.3</b>	0.96	0.33	0.13	
75-25-2	Bromoform	0.13	0.21	0.13	0.044	U
100-42-5	Styrene	0.31	0.51	0.31	0.084	U
95-47-6	o-Xylene	<b>0.50</b>	0.51	0.16	0.074	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.14</b>	0.45	0.14	0.065	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.47</b>	0.44	0.14	0.063	
120-82-1	1,2,4-Trichlorobenzene	0.18	0.56	0.18	0.073	U
91-20-3	Naphthalene	0.25	0.41	0.25	0.10	U
1330-20-7	Xylenes, Total	<b>1.8</b>	0.96	0.33	0.13	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-145-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00063

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.56 Final Pressure (psig): 6.55

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.40	1.3	0.81	0.33	J
75-71-8	Dichlorodifluoromethane (CFC 12)	4.5	0.46	0.28	0.077	
74-87-3	Chloromethane	0.68	1.1	0.68	0.18	U, V
75-01-4	Vinyl Chloride	0.29	0.91	0.29	0.098	U
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	U
75-00-3	Chloroethane	0.53	0.86	0.53	0.11	U
64-17-5	Ethanol	9.5	12	1.9	0.86	J
67-64-1	Acetone	9.2	9.6	5.0	2.2	J
75-69-4	Trichlorofluoromethane	0.36	0.40	0.25	0.063	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	U
75-09-2	Methylene Chloride	0.40	0.66	0.40	0.19	U
76-13-1	Trichlorotrifluoroethane	0.16	0.30	0.097	0.043	J
75-15-0	Carbon Disulfide	5.3	1.4	0.76	0.22	
75-34-3	1,1-Dichloroethane	0.36	0.58	0.36	0.084	U
78-93-3	2-Butanone (MEK)	2.6	1.5	0.47	0.16	
141-78-6	Ethyl Acetate	0.41	1.2	0.79	0.34	J
110-54-3	n-Hexane	0.40	0.65	0.40	0.14	U
67-66-3	Chloroform	13	0.48	0.15	0.064	
109-99-9	Tetrahydrofuran (THF)	12	1.5	0.25	0.099	
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.064	U
71-43-2	Benzene	0.23	0.71	0.23	0.11	U
56-23-5	Carbon Tetrachloride	3.0	0.35	0.12	0.051	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-145-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00063

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.56 Final Pressure (psig): 6.55

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.43	1.3	0.43	0.19	U
75-27-4	Bromodichloromethane	<b>0.81</b>	0.34	0.11	0.050	
79-01-6	Trichloroethene	<b>0.10</b>	0.42	0.14	0.059	J
123-91-1	1,4-Dioxane	<b>0.15</b>	0.63	0.21	0.077	J
142-82-5	n-Heptane	0.34	0.56	0.34	0.091	U
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.078	U
108-88-3	Toluene	<b>0.14</b>	0.60	0.20	0.075	J
591-78-6	2-Hexanone	<b>0.13</b>	1.1	0.18	0.071	J
124-48-1	Dibromochloromethane	0.087	0.27	0.087	0.036	U
106-93-4	1,2-Dibromoethane	0.097	0.30	0.097	0.035	U
127-18-4	Tetrachloroethene	<b>0.49</b>	0.34	0.11	0.045	
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.076	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.14	0.22	0.14	0.047	U
100-42-5	Styrene	0.33	0.53	0.33	0.088	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.078	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.47	0.15	0.069	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.46	0.15	0.066	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.59	0.19	0.077	U
91-20-3	Naphthalene	0.26	0.43	0.26	0.11	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00929

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.48 Final Pressure (psig): 7.36

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>3.8</b>	1.4	0.84	0.34	
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>8.4</b>	0.48	0.29	0.080	
74-87-3	Chloromethane	0.70	1.1	0.70	0.19	<b>U, V</b>
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	<b>U</b>
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	<b>U</b>
75-00-3	Chloroethane	0.55	0.89	0.55	0.11	<b>U</b>
64-17-5	Ethanol	<b>18</b>	13	2.0	0.89	
67-64-1	Acetone	<b>19</b>	9.9	5.1	2.3	
75-69-4	Trichlorofluoromethane	<b>0.58</b>	0.41	0.26	0.065	
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.82</b>	1.8	1.2	0.41	<b>J</b>
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.24</b>	0.31	0.10	0.045	<b>J</b>
75-15-0	Carbon Disulfide	<b>17</b>	1.5	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.087	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.8</b>	1.5	0.49	0.17	
141-78-6	Ethyl Acetate	0.82	1.3	0.82	0.35	<b>U</b>
110-54-3	n-Hexane	0.41	0.67	0.41	0.14	<b>U</b>
67-66-3	Chloroform	<b>0.52</b>	0.49	0.16	0.066	
109-99-9	Tetrahydrofuran (THF)	<b>1.9</b>	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	<b>U</b>
71-43-2	Benzene	<b>0.14</b>	0.74	0.24	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.59</b>	0.37	0.12	0.053	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-019

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/3/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00929

Initial Pressure (psig): -2.48 Final Pressure (psig): 7.36

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	0.11	0.35	0.11	0.052	U
79-01-6	Trichloroethene	<b>0.13</b>	0.43	0.14	0.061	J
123-91-1	1,4-Dioxane	<b>0.14</b>	0.65	0.21	0.079	J
142-82-5	n-Heptane	0.35	0.57	0.35	0.094	U
108-10-1	4-Methyl-2-pentanone	<b>0.11</b>	1.1	0.19	0.081	J
108-88-3	Toluene	<b>0.20</b>	0.62	0.20	0.078	J
591-78-6	2-Hexanone	<b>0.54</b>	1.1	0.19	0.073	J
124-48-1	Dibromochloromethane	0.090	0.28	0.090	0.037	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.067</b>	0.35	0.11	0.046	J
100-41-4	Ethylbenzene	0.18	0.54	0.18	0.078	U
179601-23-1	m,p-Xylenes	0.35	1.0	0.35	0.15	U
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.091	U
95-47-6	o-Xylene	0.18	0.55	0.18	0.080	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.071	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.48	0.16	0.068	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.079	U
91-20-3	Naphthalene	<b>0.25</b>	0.45	0.27	0.11	J
1330-20-7	Xylenes, Total	0.35	1.0	0.35	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00478

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.75 Final Pressure (psig): 6.41

Container Dilution Factor: 1.77

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.84	1.3	0.82	0.33	J
75-71-8	Dichlorodifluoromethane (CFC 12)	22	0.47	0.29	0.078	
74-87-3	Chloromethane	0.21	1.1	0.69	0.18	J, V
75-01-4	Vinyl Chloride	0.29	0.92	0.29	0.099	U
106-99-0	1,3-Butadiene	0.64	1.0	0.64	0.18	U
75-00-3	Chloroethane	0.54	0.87	0.54	0.11	U
64-17-5	Ethanol	15	12	1.9	0.87	
67-64-1	Acetone	15	9.7	5.0	2.2	
75-69-4	Trichlorofluoromethane	2.3	0.40	0.25	0.064	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.82	1.8	1.1	0.40	J
75-09-2	Methylene Chloride	0.84	0.66	0.41	0.19	
76-13-1	Trichlorotrifluoroethane	0.49	0.31	0.098	0.044	
75-15-0	Carbon Disulfide	1.4	1.4	0.77	0.23	
75-34-3	1,1-Dichloroethane	0.36	0.59	0.36	0.085	U
78-93-3	2-Butanone (MEK)	3.3	1.5	0.48	0.17	
141-78-6	Ethyl Acetate	15	1.2	0.80	0.34	
110-54-3	n-Hexane	0.14	0.65	0.40	0.14	J
67-66-3	Chloroform	0.14	0.48	0.15	0.064	J
109-99-9	Tetrahydrofuran (THF)	0.36	1.5	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.57	0.19	0.065	U
71-43-2	Benzene	0.27	0.72	0.24	0.11	J
56-23-5	Carbon Tetrachloride	0.084	0.36	0.12	0.052	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV121-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-020

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/3/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00478

Initial Pressure (psig): -2.75 Final Pressure (psig): 6.41

Container Dilution Factor: 1.77

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.44	1.3	0.44	0.19	U
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.051	U
79-01-6	Trichloroethene	0.14	0.42	0.14	0.059	U
123-91-1	1,4-Dioxane	0.21	0.64	0.21	0.077	U
142-82-5	n-Heptane	0.35	0.56	0.35	0.092	U
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.079	U
108-88-3	Toluene	<b>0.76</b>	0.61	0.20	0.076	
591-78-6	2-Hexanone	<b>0.20</b>	1.1	0.18	0.071	J
124-48-1	Dibromochloromethane	0.088	0.27	0.088	0.036	U
106-93-4	1,2-Dibromoethane	0.098	0.30	0.098	0.036	U
127-18-4	Tetrachloroethene	<b>0.070</b>	0.34	0.11	0.045	J
100-41-4	Ethylbenzene	0.17	0.53	0.17	0.076	U
179601-23-1	m,p-Xylenes	<b>0.19</b>	1.0	0.35	0.14	J
75-25-2	Bromoform	0.14	0.23	0.14	0.047	U
100-42-5	Styrene	0.33	0.54	0.33	0.089	U
95-47-6	o-Xylene	0.17	0.54	0.17	0.078	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.48	0.15	0.069	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.075</b>	0.47	0.15	0.067	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.60	0.19	0.078	U
91-20-3	Naphthalene	0.26	0.44	0.26	0.11	U
1330-20-7	Xylenes, Total	<b>0.19</b>	1.0	0.35	0.14	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U, V
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date(s) Collected: 10/12 - 10/13/20

Analyst: Simon Cao/Topacio De Leon/Wida Ang

Date(s) Received: 10/19/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 11/2 - 11/3/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201102-MB	100	105	107	70-130	
Method Blank	P201103-MB	102	103	108	70-130	
Lab Control Sample	P201102-LCS	100	100	104	70-130	
Lab Control Sample	P201103-LCS	101	99	105	70-130	
Duplicate Lab Control Sample	P201102-DLCS	99	101	103	70-130	
Duplicate Lab Control Sample	P201103-DLCS	101	100	103	70-130	
SV115-025-604	P2005894-001	103	102	109	70-130	
SV115-025-204	P2005894-002	103	102	110	70-130	
SV115-050-204	P2005894-003	103	103	110	70-130	
SV115-150-204	P2005894-004	104	102	110	70-130	
SV115-250-204	P2005894-005	103	103	110	70-130	
SV115-350-204	P2005894-006	103	102	109	70-130	
SV115-450-204	P2005894-007	103	102	107	70-130	
SV120-025-204	P2005894-008	103	103	107	70-130	
SV120-025-604	P2005894-009	103	102	108	70-130	
SV120-050-204	P2005894-010	102	102	108	70-130	
SV120-150-204	P2005894-011	102	102	108	70-130	
SV120-250-204	P2005894-012	103	102	108	70-130	
SV120-350-204	P2005894-013	102	102	109	70-130	
SV120-450-204	P2005894-014	100	102	108	70-130	
SV121-025-204	P2005894-015	104	102	108	70-130	
SV121-050-204	P2005894-016	104	102	108	70-130	
SV121-145-604	P2005894-017	103	102	109	70-130	
SV121-145-204	P2005894-018	103	103	106	70-130	
SV121-250-204	P2005894-019	102	104	107	70-130	
SV121-350-204	P2005894-020	103	103	107	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	122	112	109	92	89	57-136	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	39.9	40.1	94	94	59-128	0	25	
74-87-3	Chloromethane	99.8	95.7	92.4	96	93	59-132	3	25	
75-01-4	Vinyl Chloride	81.4	80.8	78.1	99	96	64-127	3	25	
106-99-0	1,3-Butadiene	95.0	103	100	108	105	66-134	3	25	
75-00-3	Chloroethane	77.3	71.6	69.3	93	90	63-127	3	25	
64-17-5	Ethanol	530	448	437	85	82	59-125	4	25	
67-64-1	Acetone	435	373	364	86	84	58-128	2	25	
75-69-4	Trichlorofluoromethane	36.3	34.7	34.7	96	96	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	146	143	88	86	52-125	2	25	
75-09-2	Methylene Chloride	59.9	56.6	55.5	94	93	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	27.9	26.7	26.5	96	95	66-126	1	25	
75-15-0	Carbon Disulfide	137	132	129	96	94	57-134	2	25	
75-34-3	1,1-Dichloroethane	52.4	47.9	47.2	91	90	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	140	136	100	97	67-130	3	25	
141-78-6	Ethyl Acetate	117	146	142	125	121	65-128	3	25	
110-54-3	n-Hexane	60.2	52.9	51.9	88	86	63-120	2	25	
67-66-3	Chloroform	43.8	40.6	40.3	93	92	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	136	129	126	95	93	64-123	2	25	
107-06-2	1,2-Dichloroethane	51.4	49.9	49.5	97	96	65-128	1	25	
71-43-2	Benzene	63.9	60.5	59.3	95	93	69-119	2	25	
56-23-5	Carbon Tetrachloride	33.4	31.5	31.5	94	94	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		ppbV	ppbV	ppbV	ppbV					
110-82-7	Cyclohexane	121	115	112		<b>95</b>	<b>93</b>	70-117	2	25
75-27-4	Bromodichloromethane	31.4	30.7	30.4		<b>98</b>	<b>97</b>	72-128	1	25
79-01-6	Trichloroethene	38.3	36.5	36.0		<b>95</b>	<b>94</b>	71-123	1	25
123-91-1	1,4-Dioxane	57.7	59.5	58.1		<b>103</b>	<b>101</b>	71-122	2	25
142-82-5	n-Heptane	51.3	47.7	46.7		<b>93</b>	<b>91</b>	69-123	2	25
108-10-1	4-Methyl-2-pentanone	102	106	103		<b>104</b>	<b>101</b>	67-130	3	25
108-88-3	Toluene	54.7	53.0	52.5		<b>97</b>	<b>96</b>	66-119	1	25
591-78-6	2-Hexanone	98.7	108	107		<b>109</b>	<b>108</b>	62-128	0.9	25
124-48-1	Dibromochloromethane	24.7	26.8	26.5		<b>109</b>	<b>107</b>	70-130	2	25
106-93-4	1,2-Dibromoethane	27.1	28.8	28.5		<b>106</b>	<b>105</b>	74-122	0.9	25
127-18-4	Tetrachloroethene	30.4	31.2	30.7		<b>103</b>	<b>101</b>	66-124	2	25
100-41-4	Ethylbenzene	47.4	47.8	47.5		<b>101</b>	<b>100</b>	70-124	1	25
179601-23-1	m,p-Xylenes	94.9	96.1	95.8		<b>101</b>	<b>101</b>	61-134	0	25
75-25-2	Bromoform	20.1	22.9	22.9		<b>114</b>	<b>114</b>	66-139	0	25
100-42-5	Styrene	48.4	53.7	52.9		<b>111</b>	<b>109</b>	73-127	2	25
95-47-6	o-Xylene	47.4	48.1	47.9		<b>101</b>	<b>101</b>	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	41.9	43.1	42.9		<b>103</b>	<b>102</b>	67-130	1	25
95-63-6	1,2,4-Trimethylbenzene	41.5	43.7	43.4		<b>105</b>	<b>105</b>	66-132	0	25
120-82-1	1,2,4-Trichlorobenzene	52.3	59.0	59.5		<b>113</b>	<b>114</b>	55-142	0.9	25
91-20-3	Naphthalene	37.8	43.3	43.7		<b>115</b>	<b>116</b>	57-138	0.9	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	122	107	107	88	88	57-136	0	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	39.8	40.1	94	94	59-128	0	25	
74-87-3	Chloromethane	99.8	87.6	86.3	88	86	59-132	2	25	
75-01-4	Vinyl Chloride	81.4	77.4	77.0	95	95	64-127	0	25	
106-99-0	1,3-Butadiene	95.0	97.8	98.4	103	104	66-134	1	25	
75-00-3	Chloroethane	77.3	68.8	68.1	89	88	63-127	1	25	
64-17-5	Ethanol	530	428	431	81	81	59-125	0	25	
67-64-1	Acetone	435	360	358	83	82	58-128	1	25	
75-69-4	Trichlorofluoromethane	36.3	34.7	35.3	96	97	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	141	140	85	84	52-125	1	25	
75-09-2	Methylene Chloride	59.9	54.6	54.9	91	92	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	27.9	26.5	26.6	95	95	66-126	0	25	
75-15-0	Carbon Disulfide	137	127	126	93	92	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	46.9	47.0	90	90	68-126	0	25	
78-93-3	2-Butanone (MEK)	140	134	133	96	95	67-130	1	25	
141-78-6	Ethyl Acetate	117	141	139	121	119	65-128	2	25	
110-54-3	n-Hexane	60.2	51.3	51.1	85	85	63-120	0	25	
67-66-3	Chloroform	43.8	40.3	40.2	92	92	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	136	123	125	90	92	64-123	2	25	
107-06-2	1,2-Dichloroethane	51.4	49.7	50.0	97	97	65-128	0	25	
71-43-2	Benzene	63.9	58.5	58.6	92	92	69-119	0	25	
56-23-5	Carbon Tetrachloride	33.4	31.5	31.8	94	95	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	112	112		<b>93</b>	<b>93</b>	70-117	0	25
75-27-4	Bromodichloromethane	31.4	30.3	30.5		<b>96</b>	<b>97</b>	72-128	1	25
79-01-6	Trichloroethene	38.3	35.6	35.9		<b>93</b>	<b>94</b>	71-123	1	25
123-91-1	1,4-Dioxane	57.7	57.3	57.9		<b>99</b>	<b>100</b>	71-122	1	25
142-82-5	n-Heptane	51.3	46.4	46.3		<b>90</b>	<b>90</b>	69-123	0	25
108-10-1	4-Methyl-2-pentanone	102	102	102		<b>100</b>	<b>100</b>	67-130	0	25
108-88-3	Toluene	54.7	51.1	51.2		<b>93</b>	<b>94</b>	66-119	1	25
591-78-6	2-Hexanone	98.7	103	103		<b>104</b>	<b>104</b>	62-128	0	25
124-48-1	Dibromochloromethane	24.7	25.8	25.9		<b>104</b>	<b>105</b>	70-130	1	25
106-93-4	1,2-Dibromoethane	27.1	27.6	27.5		<b>102</b>	<b>101</b>	74-122	1	25
127-18-4	Tetrachloroethene	30.4	29.8	29.9		<b>98</b>	<b>98</b>	66-124	0	25
100-41-4	Ethylbenzene	47.4	46.0	46.4		<b>97</b>	<b>98</b>	70-124	1	25
179601-23-1	m,p-Xylenes	94.9	93.1	91.5		<b>98</b>	<b>96</b>	61-134	2	25
75-25-2	Bromoform	20.1	22.1	22.3		<b>110</b>	<b>111</b>	66-139	0.9	25
100-42-5	Styrene	48.4	51.2	51.2		<b>106</b>	<b>106</b>	73-127	0	25
95-47-6	o-Xylene	47.4	46.6	46.7		<b>98</b>	<b>99</b>	67-125	1	25
108-67-8	1,3,5-Trimethylbenzene	41.9	41.8	42.0		<b>100</b>	<b>100</b>	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	41.5	42.1	42.3		<b>101</b>	<b>102</b>	66-132	1	25
120-82-1	1,2,4-Trichlorobenzene	52.3	57.7	58.4		<b>110</b>	<b>112</b>	55-142	2	25
91-20-3	Naphthalene	37.8	42.4	42.9		<b>112</b>	<b>113</b>	57-138	0.9	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-025-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01234

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.91 Final Pressure (psig): 6.61

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.6	1.6	0.64	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	2.6	1.6	0.43	J
74-87-3	Chloromethane	1.6	2.6	1.6	0.42	U
75-01-4	Vinyl Chloride	0.84	2.6	0.84	0.28	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	12	26	4.1	1.8	J
67-64-1	Acetone	18	26	13	5.9	J
75-69-4	Trichlorofluoromethane	1.2	2.5	1.6	0.40	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.1	4.9	3.1	1.1	U
75-09-2	Methylene Chloride	0.88	2.6	1.6	0.74	J
76-13-1	Trichlorotrifluoroethane	0.57	2.6	0.84	0.37	J
75-15-0	Carbon Disulfide	1.3	4.9	2.7	0.79	J
75-34-3	1,1-Dichloroethane	1.6	2.7	1.6	0.38	U
78-93-3	2-Butanone (MEK)	4.0	4.9	1.6	0.54	J
141-78-6	Ethyl Acetate	3.2	4.9	3.2	1.4	U
110-54-3	n-Hexane	1.0	2.6	1.6	0.54	J
67-66-3	Chloroform	0.40	2.6	0.84	0.35	J
109-99-9	Tetrahydrofuran (THF)	0.84	4.9	0.84	0.33	U
107-06-2	1,2-Dichloroethane	0.84	2.6	0.84	0.29	U
71-43-2	Benzene	1.9	2.6	0.84	0.38	J
56-23-5	Carbon Tetrachloride	1.5	2.5	0.84	0.36	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV115-025-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-001

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01234

Initial Pressure (psig): -3.91 Final Pressure (psig): 6.61

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>0.95</b>	4.9	1.7	0.74	<b>J</b>
75-27-4	Bromodichloromethane	0.84	2.6	0.84	0.38	<b>U</b>
79-01-6	Trichloroethene	0.84	2.5	0.84	0.35	<b>U</b>
123-91-1	1,4-Dioxane	0.84	2.6	0.84	0.31	<b>U</b>
142-82-5	n-Heptane	<b>2.5</b>	2.6	1.6	0.42	<b>J</b>
108-10-1	4-Methyl-2-pentanone	0.84	4.9	0.84	0.36	<b>U</b>
108-88-3	Toluene	<b>12</b>	2.6	0.84	0.32	
591-78-6	2-Hexanone	0.84	4.9	0.84	0.33	<b>U</b>
124-48-1	Dibromochloromethane	0.84	2.6	0.84	0.34	<b>U</b>
106-93-4	1,2-Dibromoethane	0.84	2.6	0.84	0.31	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.47</b>	2.6	0.84	0.34	<b>J</b>
100-41-4	Ethylbenzene	<b>1.8</b>	2.6	0.84	0.37	<b>J</b>
179601-23-1	m,p-Xylenes	<b>9.1</b>	4.9	1.7	0.69	
75-25-2	Bromoform	1.6	2.6	1.6	0.54	<b>U</b>
100-42-5	Styrene	1.6	2.6	1.6	0.42	<b>U</b>
95-47-6	o-Xylene	<b>4.2</b>	2.6	0.84	0.38	
108-67-8	1,3,5-Trimethylbenzene	<b>4.7</b>	2.6	0.84	0.38	
95-63-6	1,2,4-Trimethylbenzene	<b>6.3</b>	2.6	0.84	0.36	
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.64	<b>U</b>
91-20-3	Naphthalene	<b>0.86</b>	2.6	1.5	0.64	<b>J</b>
1330-20-7	Xylenes, Total	<b>13</b>	4.9	1.7	0.69	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00092

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.58 Final Pressure (psig): 6.11

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.2	2.4	1.5	0.61	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.4	1.5	0.41	
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	0.79	2.5	0.79	0.27	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	10	25	3.9	1.7	J
67-64-1	Acetone	15	24	13	5.6	J
75-69-4	Trichlorofluoromethane	1.3	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.0	4.7	2.9	1.0	J
75-09-2	Methylene Chloride	0.74	2.4	1.5	0.70	J
76-13-1	Trichlorotrifluoroethane	0.48	2.5	0.79	0.36	J
75-15-0	Carbon Disulfide	0.75	4.7	2.5	0.75	J
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	4.0	4.7	1.5	0.51	J
141-78-6	Ethyl Acetate	3.0	4.7	3.0	1.3	U
110-54-3	n-Hexane	1.5	2.4	1.5	0.51	U
67-66-3	Chloroform	0.39	2.5	0.79	0.33	J
109-99-9	Tetrahydrofuran (THF)	0.79	4.7	0.79	0.31	U
107-06-2	1,2-Dichloroethane	0.79	2.4	0.79	0.28	U
71-43-2	Benzene	0.73	2.4	0.79	0.36	J
56-23-5	Carbon Tetrachloride	1.5	2.4	0.79	0.35	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV115-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-002

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00092

Initial Pressure (psig): -3.58 Final Pressure (psig): 6.11

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.7	1.6	0.70	U
75-27-4	Bromodichloromethane	0.79	2.4	0.79	0.36	U
79-01-6	Trichloroethene	0.79	2.4	0.79	0.34	U
123-91-1	1,4-Dioxane	0.79	2.4	0.79	0.29	U
142-82-5	n-Heptane	<b>0.92</b>	2.4	1.5	0.40	J
108-10-1	4-Methyl-2-pentanone	0.79	4.7	0.79	0.34	U
108-88-3	Toluene	<b>5.3</b>	2.4	0.79	0.30	
591-78-6	2-Hexanone	0.79	4.7	0.79	0.31	U
124-48-1	Dibromochloromethane	0.79	2.4	0.79	0.33	U
106-93-4	1,2-Dibromoethane	0.79	2.4	0.79	0.29	U
127-18-4	Tetrachloroethene	<b>0.44</b>	2.4	0.79	0.32	J
100-41-4	Ethylbenzene	<b>0.98</b>	2.4	0.79	0.35	J
179601-23-1	m,p-Xylenes	<b>4.6</b>	4.7	1.6	0.65	J
75-25-2	Bromoform	1.5	2.5	1.5	0.51	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	<b>2.3</b>	2.5	0.79	0.36	J
108-67-8	1,3,5-Trimethylbenzene	<b>2.6</b>	2.5	0.79	0.36	
95-63-6	1,2,4-Trimethylbenzene	<b>3.6</b>	2.4	0.79	0.35	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	<b>0.77</b>	2.4	1.4	0.61	J
1330-20-7	Xylenes, Total	<b>6.9</b>	4.7	1.6	0.65	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00935

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.35 Final Pressure (psig): 6.00

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.56</b>	2.2	1.3	0.55	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.3</b>	2.2	1.3	0.37	
74-87-3	Chloromethane	1.3	2.2	1.3	0.36	<b>U</b>
75-01-4	Vinyl Chloride	0.71	2.2	0.71	0.24	<b>U</b>
106-99-0	1,3-Butadiene	1.3	2.2	1.3	0.37	<b>U</b>
75-00-3	Chloroethane	1.3	2.2	1.3	0.28	<b>U</b>
64-17-5	Ethanol	<b>4.6</b>	22	3.5	1.6	<b>J</b>
67-64-1	Acetone	<b>25</b>	22	11	5.0	
75-69-4	Trichlorofluoromethane	<b>1.2</b>	2.1	1.3	0.34	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.6	4.2	2.6	0.92	<b>U</b>
75-09-2	Methylene Chloride	1.3	2.2	1.3	0.63	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.50</b>	2.2	0.71	0.32	<b>J</b>
75-15-0	Carbon Disulfide	<b>1.8</b>	4.2	2.3	0.67	<b>J</b>
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.33	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>6.5</b>	4.2	1.3	0.46	
141-78-6	Ethyl Acetate	2.7	4.2	2.7	1.2	<b>U</b>
110-54-3	n-Hexane	1.3	2.2	1.3	0.46	<b>U</b>
67-66-3	Chloroform	<b>0.89</b>	2.2	0.71	0.30	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>74</b>	4.2	0.71	0.28	
107-06-2	1,2-Dichloroethane	0.71	2.2	0.71	0.25	<b>U</b>
71-43-2	Benzene	<b>0.64</b>	2.2	0.71	0.32	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>2.1</b>	2.1	0.71	0.31	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV115-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-003

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00935

Initial Pressure (psig): -2.35 Final Pressure (psig): 6.00

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.4	4.2	1.4	0.63	U
75-27-4	Bromodichloromethane	0.71	2.2	0.71	0.32	U
79-01-6	Trichloroethene	0.71	2.1	0.71	0.30	U
123-91-1	1,4-Dioxane	0.71	2.2	0.71	0.26	U
142-82-5	n-Heptane	<b>0.52</b>	2.2	1.3	0.36	J
108-10-1	4-Methyl-2-pentanone	0.71	4.2	0.71	0.31	U
108-88-3	Toluene	<b>2.6</b>	2.2	0.71	0.27	J
591-78-6	2-Hexanone	<b>1.0</b>	4.2	0.71	0.28	J
124-48-1	Dibromochloromethane	0.71	2.2	0.71	0.29	U
106-93-4	1,2-Dibromoethane	0.71	2.2	0.71	0.26	U
127-18-4	Tetrachloroethene	<b>0.71</b>	2.2	0.71	0.29	J
100-41-4	Ethylbenzene	<b>0.65</b>	2.2	0.71	0.32	J
179601-23-1	m,p-Xylenes	<b>2.5</b>	4.2	1.4	0.59	J
75-25-2	Bromoform	1.3	2.2	1.3	0.46	U
100-42-5	Styrene	1.3	2.2	1.3	0.36	U
95-47-6	o-Xylene	<b>0.95</b>	2.2	0.71	0.32	J
108-67-8	1,3,5-Trimethylbenzene	<b>1.1</b>	2.2	0.71	0.32	J
95-63-6	1,2,4-Trimethylbenzene	<b>1.6</b>	2.2	0.71	0.31	J
120-82-1	1,2,4-Trichlorobenzene	1.3	4.2	1.3	0.55	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.55	U
1330-20-7	Xylenes, Total	<b>3.4</b>	4.2	1.4	0.59	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-004

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00039

Initial Pressure (psig): -4.11 Final Pressure (psig): 5.92

Container Dilution Factor: 1.95

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.96</b>	2.5	1.6	0.63	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>1.7</b>	2.5	1.6	0.42	<b>J</b>
74-87-3	Chloromethane	1.6	2.5	1.6	0.42	<b>U</b>
75-01-4	Vinyl Chloride	0.83	2.6	0.83	0.28	<b>U</b>
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	<b>U</b>
75-00-3	Chloroethane	1.6	2.5	1.6	0.32	<b>U</b>
64-17-5	Ethanol	<b>8.0</b>	26	4.0	1.8	<b>J</b>
67-64-1	Acetone	<b>13</b>	25	13	5.9	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>1.2</b>	2.5	1.6	0.39	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	3.1	4.9	3.1	1.1	<b>U</b>
75-09-2	Methylene Chloride	1.6	2.5	1.6	0.73	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.93</b>	2.6	0.83	0.37	<b>J</b>
75-15-0	Carbon Disulfide	<b>15</b>	4.9	2.6	0.78	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>4.5</b>	4.9	1.6	0.54	<b>J</b>
141-78-6	Ethyl Acetate	<b>1.4</b>	4.9	3.2	1.4	<b>J</b>
110-54-3	n-Hexane	<b>0.55</b>	2.5	1.6	0.54	<b>J</b>
67-66-3	Chloroform	<b>2.7</b>	2.6	0.83	0.35	
109-99-9	Tetrahydrofuran (THF)	<b>5.7</b>	4.9	0.83	0.33	
107-06-2	1,2-Dichloroethane	0.83	2.5	0.83	0.29	<b>U</b>
71-43-2	Benzene	<b>0.98</b>	2.5	0.83	0.38	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>13</b>	2.5	0.83	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-004

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00039

Initial Pressure (psig): -4.11 Final Pressure (psig): 5.92

Container Dilution Factor: 1.95

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	4.9	1.7	0.73	U
75-27-4	Bromodichloromethane	0.83	2.5	0.83	0.38	U
79-01-6	Trichloroethene	<b>0.39</b>	2.5	0.83	0.35	J
123-91-1	1,4-Dioxane	<b>0.57</b>	2.5	0.83	0.31	J
142-82-5	n-Heptane	<b>1.1</b>	2.5	1.6	0.41	J
108-10-1	4-Methyl-2-pentanone	0.83	4.9	0.83	0.36	U
108-88-3	Toluene	<b>5.4</b>	2.5	0.83	0.32	J
591-78-6	2-Hexanone	0.83	4.9	0.83	0.32	U
124-48-1	Dibromochloromethane	0.83	2.5	0.83	0.34	U
106-93-4	1,2-Dibromoethane	0.83	2.5	0.83	0.30	U
127-18-4	Tetrachloroethene	<b>2.1</b>	2.5	0.83	0.34	J
100-41-4	Ethylbenzene	<b>0.78</b>	2.5	0.83	0.37	J
179601-23-1	m,p-Xylenes	<b>3.4</b>	4.9	1.7	0.68	J
75-25-2	Bromoform	1.6	2.6	1.6	0.54	U
100-42-5	Styrene	1.6	2.5	1.6	0.42	U
95-47-6	o-Xylene	<b>1.5</b>	2.6	0.83	0.38	J
108-67-8	1,3,5-Trimethylbenzene	<b>1.4</b>	2.6	0.83	0.38	J
95-63-6	1,2,4-Trimethylbenzene	<b>2.0</b>	2.5	0.83	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.63	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	U
1330-20-7	Xylenes, Total	<b>4.9</b>	4.9	1.7	0.68	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00764

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.95 Final Pressure (psig): 6.46

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.78</b>	2.6	1.6	0.64	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.72</b>	2.6	1.6	0.43	<b>J</b>
74-87-3	Chloromethane	1.6	2.6	1.6	0.42	<b>U</b>
75-01-4	Vinyl Chloride	0.84	2.6	0.84	0.28	<b>U</b>
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.43	<b>U</b>
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	<b>U</b>
64-17-5	Ethanol	<b>4.1</b>	26	4.1	1.8	<b>J</b>
67-64-1	Acetone	<b>13</b>	26	13	5.9	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.76</b>	2.5	1.6	0.40	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	3.1	4.9	3.1	1.1	<b>U</b>
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.74	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>1.0</b>	2.6	0.84	0.37	<b>J</b>
75-15-0	Carbon Disulfide	<b>1.7</b>	4.9	2.7	0.79	<b>J</b>
75-34-3	1,1-Dichloroethane	1.6	2.7	1.6	0.38	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>3.7</b>	4.9	1.6	0.54	<b>J</b>
141-78-6	Ethyl Acetate	3.2	4.9	3.2	1.4	<b>U</b>
110-54-3	n-Hexane	1.6	2.6	1.6	0.54	<b>U</b>
67-66-3	Chloroform	0.84	2.6	0.84	0.35	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>1.2</b>	4.9	0.84	0.33	<b>J</b>
107-06-2	1,2-Dichloroethane	0.84	2.6	0.84	0.29	<b>U</b>
71-43-2	Benzene	<b>0.84</b>	2.6	0.84	0.38	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.89</b>	2.5	0.84	0.36	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV115-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-005

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00764

Initial Pressure (psig): -3.95 Final Pressure (psig): 6.46

Container Dilution Factor: 1.97

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	4.9	1.7	0.74	U
75-27-4	Bromodichloromethane	0.84	2.6	0.84	0.38	U
79-01-6	Trichloroethene	<b>0.87</b>	2.5	0.84	0.35	J
123-91-1	1,4-Dioxane	0.84	2.6	0.84	0.31	U
142-82-5	n-Heptane	<b>0.60</b>	2.6	1.6	0.42	J
108-10-1	4-Methyl-2-pentanone	0.84	4.9	0.84	0.36	U
108-88-3	Toluene	<b>3.0</b>	2.6	0.84	0.32	J
591-78-6	2-Hexanone	0.84	4.9	0.84	0.33	U
124-48-1	Dibromochloromethane	0.84	2.6	0.84	0.34	U
106-93-4	1,2-Dibromoethane	0.84	2.6	0.84	0.31	U
127-18-4	Tetrachloroethene	0.84	2.6	0.84	0.34	U
100-41-4	Ethylbenzene	<b>0.43</b>	2.6	0.84	0.37	J
179601-23-1	m,p-Xylenes	<b>2.1</b>	4.9	1.7	0.69	J
75-25-2	Bromoform	1.6	2.6	1.6	0.54	U
100-42-5	Styrene	1.6	2.6	1.6	0.42	U
95-47-6	o-Xylene	<b>0.92</b>	2.6	0.84	0.38	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.84</b>	2.6	0.84	0.38	J
95-63-6	1,2,4-Trimethylbenzene	<b>1.2</b>	2.6	0.84	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.64	U
91-20-3	Naphthalene	1.5	2.6	1.5	0.64	U
1330-20-7	Xylenes, Total	<b>3.0</b>	4.9	1.7	0.69	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01027

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.09 Final Pressure (psig): 6.01

Container Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.81</b>	2.3	1.4	0.58	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	1.4	2.3	1.4	0.39	<b>U</b>
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	<b>U</b>
75-01-4	Vinyl Chloride	0.76	2.4	0.76	0.25	<b>U</b>
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	<b>U</b>
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	<b>U</b>
64-17-5	Ethanol	<b>3.5</b>	24	3.7	1.6	<b>J</b>
67-64-1	Acetone	<b>22</b>	23	12	5.3	<b>J</b>
75-69-4	Trichlorofluoromethane	1.4	2.3	1.4	0.36	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.5	2.8	0.98	<b>U</b>
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.67	<b>U</b>
76-13-1	Trichlorotrifluoroethane	0.76	2.4	0.76	0.34	<b>U</b>
75-15-0	Carbon Disulfide	<b>14</b>	4.5	2.4	0.71	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>3.6</b>	4.5	1.4	0.49	<b>J</b>
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.2	<b>U</b>
110-54-3	n-Hexane	1.4	2.3	1.4	0.49	<b>U</b>
67-66-3	Chloroform	<b>0.34</b>	2.4	0.76	0.32	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>27</b>	4.5	0.76	0.30	
107-06-2	1,2-Dichloroethane	0.76	2.3	0.76	0.26	<b>U</b>
71-43-2	Benzene	<b>1.6</b>	2.3	0.76	0.34	<b>J</b>
56-23-5	Carbon Tetrachloride	0.76	2.3	0.76	0.33	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV115-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-006

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01027

Initial Pressure (psig): -3.09 Final Pressure (psig): 6.01

Container Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.67	U
75-27-4	Bromodichloromethane	0.76	2.3	0.76	0.34	U
79-01-6	Trichloroethene	12	2.3	0.76	0.32	
123-91-1	1,4-Dioxane	0.76	2.3	0.76	0.28	U
142-82-5	n-Heptane	0.82	2.3	1.4	0.38	J
108-10-1	4-Methyl-2-pentanone	0.76	4.5	0.76	0.32	U
108-88-3	Toluene	4.1	2.3	0.76	0.29	
591-78-6	2-Hexanone	0.49	4.5	0.76	0.29	J
124-48-1	Dibromochloromethane	0.76	2.3	0.76	0.31	U
106-93-4	1,2-Dibromoethane	0.76	2.3	0.76	0.28	U
127-18-4	Tetrachloroethene	0.36	2.3	0.76	0.31	J
100-41-4	Ethylbenzene	0.57	2.3	0.76	0.33	J
179601-23-1	m,p-Xylenes	2.8	4.5	1.5	0.62	J
75-25-2	Bromoform	1.4	2.4	1.4	0.49	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	1.1	2.4	0.76	0.34	J
108-67-8	1,3,5-Trimethylbenzene	0.94	2.4	0.76	0.34	J
95-63-6	1,2,4-Trimethylbenzene	1.4	2.3	0.76	0.33	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.58	U
91-20-3	Naphthalene	2.5	2.3	1.4	0.58	
1330-20-7	Xylenes, Total	3.9	4.5	1.5	0.62	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00158

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0050 Liter(s)

Initial Pressure (psig): -2.83 Final Pressure (psig): 6.04

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>260</b>	180	110	46	
75-71-8	Dichlorodifluoromethane (CFC 12)	110	180	110	30	U
74-87-3	Chloromethane	110	180	110	30	U
75-01-4	Vinyl Chloride	60	190	60	20	U
106-99-0	1,3-Butadiene	110	180	110	31	U
75-00-3	Chloroethane	110	180	110	23	U
64-17-5	Ethanol	290	1,900	290	130	U
67-64-1	Acetone	950	1,800	950	420	U
75-69-4	Trichlorofluoromethane	110	180	110	28	U
67-63-0	2-Propanol (Isopropyl Alcohol)	220	350	220	77	U
75-09-2	Methylene Chloride	110	180	110	53	U
76-13-1	Trichlorotrifluoroethane	60	190	60	27	U
75-15-0	Carbon Disulfide	<b>82</b>	350	190	56	J
75-34-3	1,1-Dichloroethane	120	190	120	27	U
78-93-3	2-Butanone (MEK)	110	350	110	39	U
141-78-6	Ethyl Acetate	230	350	230	98	U
110-54-3	n-Hexane	<b>1,100</b>	180	110	39	
67-66-3	Chloroform	60	190	60	25	U
109-99-9	Tetrahydrofuran (THF)	<b>74</b>	350	60	23	J
107-06-2	1,2-Dichloroethane	60	180	60	21	U
71-43-2	Benzene	<b>2,900</b>	180	60	27	
56-23-5	Carbon Tetrachloride	60	180	60	26	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV115-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00158

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0050 Liter(s)

Initial Pressure (psig): -2.83 Final Pressure (psig): 6.04

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>2,900</b>	350	120	53	
75-27-4	Bromodichloromethane	60	180	60	27	U
79-01-6	Trichloroethene	60	180	60	25	U
123-91-1	1,4-Dioxane	60	180	60	22	U
142-82-5	n-Heptane	<b>120</b>	180	110	30	J
108-10-1	4-Methyl-2-pentanone	60	350	60	26	U
108-88-3	Toluene	<b>4,400</b>	180	60	23	
591-78-6	2-Hexanone	60	350	60	23	U
124-48-1	Dibromochloromethane	60	180	60	25	U
106-93-4	1,2-Dibromoethane	60	180	60	22	U
127-18-4	Tetrachloroethene	60	180	60	24	U
100-41-4	Ethylbenzene	<b>190</b>	180	60	26	
179601-23-1	m,p-Xylenes	<b>520</b>	350	120	49	
75-25-2	Bromoform	110	190	110	39	U
100-42-5	Styrene	110	180	110	30	U
95-47-6	o-Xylene	<b>230</b>	190	60	27	
108-67-8	1,3,5-Trimethylbenzene	<b>61</b>	190	60	27	J
95-63-6	1,2,4-Trimethylbenzene	<b>48</b>	180	60	26	J
120-82-1	1,2,4-Trichlorobenzene	110	350	110	46	U
91-20-3	Naphthalene	110	180	110	46	U
1330-20-7	Xylenes, Total	<b>740</b>	350	120	49	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00074

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.95 Final Pressure (psig): 7.00

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.79</b>	2.4	1.5	0.60	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.3</b>	2.4	1.5	0.40	<b>J</b>
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	<b>U, V</b>
75-01-4	Vinyl Chloride	0.79	2.5	0.79	0.26	<b>U</b>
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	<b>U</b>
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	<b>U</b>
64-17-5	Ethanol	<b>2.3</b>	25	3.8	1.7	<b>J</b>
67-64-1	Acetone	<b>15</b>	24	12	5.6	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>1.1</b>	2.4	1.5	0.37	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	<b>U</b>
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.46</b>	2.5	0.79	0.35	<b>J</b>
75-15-0	Carbon Disulfide	<b>25</b>	4.6	2.5	0.74	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>5.0</b>	4.6	1.5	0.51	
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	<b>U</b>
110-54-3	n-Hexane	<b>1.5</b>	2.4	1.5	0.51	<b>J</b>
67-66-3	Chloroform	<b>130</b>	2.5	0.79	0.33	
109-99-9	Tetrahydrofuran (THF)	<b>4.0</b>	4.6	0.79	0.31	<b>J</b>
107-06-2	1,2-Dichloroethane	0.79	2.4	0.79	0.27	<b>U</b>
71-43-2	Benzene	<b>1.6</b>	2.4	0.79	0.36	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>1.2</b>	2.4	0.79	0.34	<b>J</b>

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00074

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.95 Final Pressure (psig): 7.00

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.6	1.6	0.69	U
75-27-4	Bromodichloromethane	37	2.4	0.79	0.36	
79-01-6	Trichloroethene	0.56	2.4	0.79	0.33	J
123-91-1	1,4-Dioxane	1.1	2.4	0.79	0.29	J
142-82-5	n-Heptane	3.0	2.4	1.5	0.39	
108-10-1	4-Methyl-2-pentanone	0.79	4.6	0.79	0.34	U
108-88-3	Toluene	10	2.4	0.79	0.30	
591-78-6	2-Hexanone	1.4	4.6	0.79	0.31	J
124-48-1	Dibromochloromethane	1.2	2.4	0.79	0.32	J
106-93-4	1,2-Dibromoethane	0.79	2.4	0.79	0.29	U
127-18-4	Tetrachloroethene	1.8	2.4	0.79	0.32	J
100-41-4	Ethylbenzene	1.7	2.4	0.79	0.35	J
179601-23-1	m,p-Xylenes	7.6	4.6	1.6	0.65	
75-25-2	Bromoform	1.5	2.5	1.5	0.51	U
100-42-5	Styrene	0.69	2.4	1.5	0.40	J
95-47-6	o-Xylene	2.2	2.5	0.79	0.36	J
108-67-8	1,3,5-Trimethylbenzene	0.74	2.5	0.79	0.36	J
95-63-6	1,2,4-Trimethylbenzene	2.3	2.4	0.79	0.34	J
120-82-1	1,2,4-Trichlorobenzene	0.67	4.6	1.5	0.60	J
91-20-3	Naphthalene	1.0	2.4	1.4	0.60	J
1330-20-7	Xylenes, Total	9.7	4.6	1.6	0.65	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-025-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00257

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.20 Final Pressure (psig): 6.23

Container Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.69</b>	2.2	1.3	0.54	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.2</b>	2.2	1.3	0.36	
74-87-3	Chloromethane	1.3	2.2	1.3	0.36	<b>U</b>
75-01-4	Vinyl Chloride	0.71	2.2	0.71	0.24	<b>U</b>
106-99-0	1,3-Butadiene	1.3	2.2	1.3	0.37	<b>U</b>
75-00-3	Chloroethane	1.3	2.2	1.3	0.28	<b>U</b>
64-17-5	Ethanol	<b>3.1</b>	22	3.5	1.5	<b>J</b>
67-64-1	Acetone	<b>13</b>	22	11	5.0	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>1.0</b>	2.1	1.3	0.34	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.6	4.2	2.6	0.92	<b>U</b>
75-09-2	Methylene Chloride	1.3	2.2	1.3	0.63	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.41</b>	2.2	0.71	0.32	<b>J</b>
75-15-0	Carbon Disulfide	<b>1.8</b>	4.2	2.3	0.67	<b>J</b>
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.33	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.2</b>	4.2	1.3	0.46	<b>J</b>
141-78-6	Ethyl Acetate	2.7	4.2	2.7	1.2	<b>U</b>
110-54-3	n-Hexane	<b>0.67</b>	2.2	1.3	0.46	<b>J</b>
67-66-3	Chloroform	<b>130</b>	2.2	0.71	0.30	
109-99-9	Tetrahydrofuran (THF)	<b>1.4</b>	4.2	0.71	0.28	<b>J</b>
107-06-2	1,2-Dichloroethane	0.71	2.2	0.71	0.25	<b>U</b>
71-43-2	Benzene	<b>0.85</b>	2.2	0.71	0.32	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>1.1</b>	2.1	0.71	0.31	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-025-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-009

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00257

Initial Pressure (psig): -2.20 Final Pressure (psig): 6.23

Container Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.4	4.2	1.4	0.63	U
75-27-4	Bromodichloromethane	<b>38</b>	2.2	0.71	0.32	
79-01-6	Trichloroethene	<b>0.55</b>	2.1	0.71	0.30	J
123-91-1	1,4-Dioxane	0.71	2.2	0.71	0.26	U
142-82-5	n-Heptane	<b>1.2</b>	2.2	1.3	0.35	J
108-10-1	4-Methyl-2-pentanone	0.71	4.2	0.71	0.30	U
108-88-3	Toluene	<b>5.3</b>	2.2	0.71	0.27	
591-78-6	2-Hexanone	<b>0.55</b>	4.2	0.71	0.28	J
124-48-1	Dibromochloromethane	<b>1.3</b>	2.2	0.71	0.29	J
106-93-4	1,2-Dibromoethane	0.71	2.2	0.71	0.26	U
127-18-4	Tetrachloroethene	<b>1.7</b>	2.2	0.71	0.29	J
100-41-4	Ethylbenzene	<b>0.78</b>	2.2	0.71	0.31	J
179601-23-1	m,p-Xylenes	<b>3.2</b>	4.2	1.4	0.58	J
75-25-2	Bromoform	1.3	2.2	1.3	0.46	U
100-42-5	Styrene	1.3	2.2	1.3	0.36	U
95-47-6	o-Xylene	<b>1.0</b>	2.2	0.71	0.32	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.33</b>	2.2	0.71	0.32	J
95-63-6	1,2,4-Trimethylbenzene	<b>1.0</b>	2.2	0.71	0.31	J
120-82-1	1,2,4-Trichlorobenzene	1.3	4.2	1.3	0.54	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.54	U
1330-20-7	Xylenes, Total	<b>4.2</b>	4.2	1.4	0.58	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00534

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.85 Final Pressure (psig): 6.41

Container Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.3	1.4	0.58	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3.2	2.3	1.4	0.39	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	U
75-01-4	Vinyl Chloride	0.76	2.4	0.76	0.25	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	U
64-17-5	Ethanol	2.0	24	3.7	1.6	J
67-64-1	Acetone	78	23	12	5.3	
75-69-4	Trichlorofluoromethane	1.1	2.3	1.4	0.36	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.5	2.8	0.98	U
75-09-2	Methylene Chloride	6.6	2.3	1.4	0.67	
76-13-1	Trichlorotrifluoroethane	0.88	2.4	0.76	0.34	J
75-15-0	Carbon Disulfide	1.9	4.5	2.4	0.71	J
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	140	4.5	1.4	0.49	
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.2	U
110-54-3	n-Hexane	1.4	2.3	1.4	0.49	U
67-66-3	Chloroform	1,200	24	7.6	3.2	D
109-99-9	Tetrahydrofuran (THF)	240	4.5	0.76	0.30	
107-06-2	1,2-Dichloroethane	0.76	2.3	0.76	0.26	U
71-43-2	Benzene	0.76	2.3	0.76	0.34	U
56-23-5	Carbon Tetrachloride	20	2.3	0.76	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00534

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.85 Final Pressure (psig): 6.41

Container Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.67	U
75-27-4	Bromodichloromethane	<b>470</b>	23	7.6	3.4	D
79-01-6	Trichloroethene	<b>5.0</b>	2.3	0.76	0.32	
123-91-1	1,4-Dioxane	0.76	2.3	0.76	0.28	U
142-82-5	n-Heptane	1.4	2.3	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	0.76	4.5	0.76	0.32	U
108-88-3	Toluene	<b>0.79</b>	2.3	0.76	0.29	J
591-78-6	2-Hexanone	0.76	4.5	0.76	0.29	U
124-48-1	Dibromochloromethane	<b>92</b>	2.3	0.76	0.31	
106-93-4	1,2-Dibromoethane	0.76	2.3	0.76	0.28	U
127-18-4	Tetrachloroethene	<b>11</b>	2.3	0.76	0.31	
100-41-4	Ethylbenzene	0.76	2.3	0.76	0.33	U
179601-23-1	m,p-Xylenes	1.5	4.5	1.5	0.62	U
75-25-2	Bromoform	<b>0.79</b>	2.4	1.4	0.49	J
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	0.76	2.4	0.76	0.34	U
108-67-8	1,3,5-Trimethylbenzene	0.76	2.4	0.76	0.34	U
95-63-6	1,2,4-Trimethylbenzene	0.76	2.3	0.76	0.33	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.58	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.58	U
1330-20-7	Xylenes, Total	1.5	4.5	1.5	0.62	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00959

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.08 Final Pressure (psig): 7.03

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.2	1.4	0.56	J
75-71-8	Dichlorodifluoromethane (CFC 12)	16	2.2	1.4	0.37	
74-87-3	Chloromethane	0.52	2.2	1.4	0.37	J
75-01-4	Vinyl Chloride	0.73	2.3	0.73	0.25	U
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.38	U
75-00-3	Chloroethane	1.4	2.2	1.4	0.28	U
64-17-5	Ethanol	6.4	23	3.6	1.6	J
67-64-1	Acetone	53	22	12	5.2	
75-69-4	Trichlorofluoromethane	1.4	2.2	1.4	0.35	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	4.3	2.7	0.95	J
75-09-2	Methylene Chloride	1.4	2.2	1.4	0.65	U
76-13-1	Trichlorotrifluoroethane	1.5	2.3	0.73	0.33	J
75-15-0	Carbon Disulfide	4.9	4.3	2.3	0.69	
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.34	U
78-93-3	2-Butanone (MEK)	10	4.3	1.4	0.47	
141-78-6	Ethyl Acetate	1.3	4.3	2.8	1.2	J
110-54-3	n-Hexane	1.4	2.2	1.4	0.47	U
67-66-3	Chloroform	52	2.3	0.73	0.31	
109-99-9	Tetrahydrofuran (THF)	6.7	4.3	0.73	0.29	
107-06-2	1,2-Dichloroethane	0.73	2.2	0.73	0.25	U
71-43-2	Benzene	0.73	2.2	0.73	0.33	U
56-23-5	Carbon Tetrachloride	27	2.2	0.73	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV120-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-011

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00959

Initial Pressure (psig): -2.08 Final Pressure (psig): 7.03

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.3	1.5	0.65	U
75-27-4	Bromodichloromethane	6.6	2.2	0.73	0.33	
79-01-6	Trichloroethene	0.31	2.2	0.73	0.31	J
123-91-1	1,4-Dioxane	1.1	2.2	0.73	0.27	J
142-82-5	n-Heptane	1.4	2.2	1.4	0.37	U
108-10-1	4-Methyl-2-pentanone	0.55	4.3	0.73	0.31	J
108-88-3	Toluene	0.81	2.2	0.73	0.28	J
591-78-6	2-Hexanone	2.6	4.3	0.73	0.28	J
124-48-1	Dibromochloromethane	0.73	2.2	0.73	0.30	U
106-93-4	1,2-Dibromoethane	0.73	2.2	0.73	0.27	U
127-18-4	Tetrachloroethene	4.3	2.2	0.73	0.30	
100-41-4	Ethylbenzene	0.73	2.2	0.73	0.32	U
179601-23-1	m,p-Xylenes	1.5	4.3	1.5	0.60	U
75-25-2	Bromoform	1.4	2.3	1.4	0.47	U
100-42-5	Styrene	1.4	2.2	1.4	0.37	U
95-47-6	o-Xylene	0.73	2.3	0.73	0.33	U
108-67-8	1,3,5-Trimethylbenzene	0.73	2.3	0.73	0.33	U
95-63-6	1,2,4-Trimethylbenzene	0.73	2.2	0.73	0.32	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.3	1.4	0.56	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.56	U
1330-20-7	Xylenes, Total	1.5	4.3	1.5	0.60	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01370

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.18 Final Pressure (psig): 6.70

Container Dilution Factor: 1.71

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.2	1.4	0.56	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>23</b>	2.2	1.4	0.37	
74-87-3	Chloromethane	1.4	2.2	1.4	0.37	U
75-01-4	Vinyl Chloride	0.73	2.3	0.73	0.24	U
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.38	U
75-00-3	Chloroethane	1.4	2.2	1.4	0.28	U
64-17-5	Ethanol	<b>2.4</b>	23	3.5	1.6	J
67-64-1	Acetone	<b>8.0</b>	22	12	5.1	J
75-69-4	Trichlorofluoromethane	<b>1.8</b>	2.2	1.4	0.35	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.3	2.7	0.94	U
75-09-2	Methylene Chloride	1.4	2.2	1.4	0.64	U
76-13-1	Trichlorotrifluoroethane	<b>1.3</b>	2.3	0.73	0.32	J
75-15-0	Carbon Disulfide	<b>6.8</b>	4.3	2.3	0.68	
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.33	U
78-93-3	2-Butanone (MEK)	<b>1.2</b>	4.3	1.4	0.47	J
141-78-6	Ethyl Acetate	2.8	4.3	2.8	1.2	U
110-54-3	n-Hexane	1.4	2.2	1.4	0.47	U
67-66-3	Chloroform	<b>3.4</b>	2.3	0.73	0.30	
109-99-9	Tetrahydrofuran (THF)	<b>16</b>	4.3	0.73	0.29	
107-06-2	1,2-Dichloroethane	0.73	2.2	0.73	0.25	U
71-43-2	Benzene	<b>0.45</b>	2.2	0.73	0.33	J
56-23-5	Carbon Tetrachloride	<b>5.0</b>	2.2	0.73	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV120-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-012

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01370

Initial Pressure (psig): -2.18 Final Pressure (psig): 6.70

Container Dilution Factor: 1.71

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.3	1.5	0.64	U
75-27-4	Bromodichloromethane	<b>0.54</b>	2.2	0.73	0.33	J
79-01-6	Trichloroethene	0.73	2.2	0.73	0.31	U
123-91-1	1,4-Dioxane	0.73	2.2	0.73	0.27	U
142-82-5	n-Heptane	1.4	2.2	1.4	0.36	U
108-10-1	4-Methyl-2-pentanone	0.73	4.3	0.73	0.31	U
108-88-3	Toluene	<b>0.65</b>	2.2	0.73	0.28	J
591-78-6	2-Hexanone	0.73	4.3	0.73	0.28	U
124-48-1	Dibromochloromethane	0.73	2.2	0.73	0.30	U
106-93-4	1,2-Dibromoethane	0.73	2.2	0.73	0.27	U
127-18-4	Tetrachloroethene	<b>0.45</b>	2.2	0.73	0.29	J
100-41-4	Ethylbenzene	<b>0.91</b>	2.2	0.73	0.32	J
179601-23-1	m,p-Xylenes	1.5	4.3	1.5	0.60	U
75-25-2	Bromoform	1.4	2.3	1.4	0.47	U
100-42-5	Styrene	1.4	2.2	1.4	0.37	U
95-47-6	o-Xylene	0.73	2.3	0.73	0.33	U
108-67-8	1,3,5-Trimethylbenzene	0.73	2.3	0.73	0.33	U
95-63-6	1,2,4-Trimethylbenzene	0.73	2.2	0.73	0.32	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.3	1.4	0.56	U
91-20-3	Naphthalene	<b>1.2</b>	2.2	1.3	0.56	J
1330-20-7	Xylenes, Total	1.5	4.3	1.5	0.60	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00692

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.080 Liter(s)

Initial Pressure (psig): -2.21 Final Pressure (psig): 8.03

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	26	12	7.3	3.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	200	12	7.3	2.0	
74-87-3	Chloromethane	7.3	12	7.3	2.0	U, V
75-01-4	Vinyl Chloride	3.9	12	3.9	1.3	U
106-99-0	1,3-Butadiene	7.3	12	7.3	2.0	U
75-00-3	Chloroethane	7.3	12	7.3	1.5	U
64-17-5	Ethanol	9.5	120	19	8.4	J
67-64-1	Acetone	61	120	61	27	U
75-69-4	Trichlorofluoromethane	21	12	7.3	1.8	
67-63-0	2-Propanol (Isopropyl Alcohol)	14	23	14	5.0	U
75-09-2	Methylene Chloride	7.3	12	7.3	3.4	U
76-13-1	Trichlorotrifluoroethane	5.4	12	3.9	1.7	J
75-15-0	Carbon Disulfide	8.5	23	12	3.6	J
75-34-3	1,1-Dichloroethane	7.5	12	7.5	1.8	U
78-93-3	2-Butanone (MEK)	10	23	7.3	2.5	J
141-78-6	Ethyl Acetate	6.5	23	15	6.4	J
110-54-3	n-Hexane	73	12	7.3	2.5	
67-66-3	Chloroform	3.9	12	3.9	1.6	U
109-99-9	Tetrahydrofuran (THF)	3.9	23	3.9	1.5	U
107-06-2	1,2-Dichloroethane	3.9	12	3.9	1.3	U
71-43-2	Benzene	180	12	3.9	1.8	
56-23-5	Carbon Tetrachloride	3.9	12	3.9	1.7	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00692

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.080 Liter(s)

Initial Pressure (psig): -2.21 Final Pressure (psig): 8.03

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>210</b>	23	7.7	3.4	
75-27-4	Bromodichloromethane	3.9	12	3.9	1.8	U
79-01-6	Trichloroethene	3.9	12	3.9	1.6	U
123-91-1	1,4-Dioxane	3.9	12	3.9	1.4	U
142-82-5	n-Heptane	<b>2.1</b>	12	7.3	1.9	J
108-10-1	4-Methyl-2-pentanone	3.9	23	3.9	1.7	U
108-88-3	Toluene	<b>13</b>	12	3.9	1.5	
591-78-6	2-Hexanone	3.9	23	3.9	1.5	U
124-48-1	Dibromochloromethane	3.9	12	3.9	1.6	U
106-93-4	1,2-Dibromoethane	3.9	12	3.9	1.4	U
127-18-4	Tetrachloroethene	3.9	12	3.9	1.6	U
100-41-4	Ethylbenzene	3.9	12	3.9	1.7	U
179601-23-1	m,p-Xylenes	<b>4.7</b>	23	7.7	3.2	J
75-25-2	Bromoform	7.3	12	7.3	2.5	U
100-42-5	Styrene	7.3	12	7.3	2.0	U
95-47-6	o-Xylene	<b>4.3</b>	12	3.9	1.8	J
108-67-8	1,3,5-Trimethylbenzene	3.9	12	3.9	1.8	U
95-63-6	1,2,4-Trimethylbenzene	3.9	12	3.9	1.7	U
120-82-1	1,2,4-Trichlorobenzene	7.3	23	7.3	3.0	U
91-20-3	Naphthalene	7.1	12	7.1	3.0	U
1330-20-7	Xylenes, Total	<b>8.9</b>	23	7.7	3.2	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00070

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.025 Liter(s)

Initial Pressure (psig): -3.40 Final Pressure (psig): 5.98

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	11	38	23	9.5	J
75-71-8	Dichlorodifluoromethane (CFC 12)	110	38	23	6.4	
74-87-3	Chloromethane	22	38	23	6.3	J, V
75-01-4	Vinyl Chloride	9.2	39	12	4.2	J
106-99-0	1,3-Butadiene	23	38	23	6.4	U
75-00-3	Chloroethane	7.7	38	23	4.8	J
64-17-5	Ethanol	61	390	61	27	U
67-64-1	Acetone	200	380	200	88	U
75-69-4	Trichlorofluoromethane	11	37	23	5.9	J
67-63-0	2-Propanol (Isopropyl Alcohol)	46	73	46	16	U
75-09-2	Methylene Chloride	23	38	23	11	U
76-13-1	Trichlorotrifluoroethane	12	39	12	5.6	U
75-15-0	Carbon Disulfide	210	73	40	12	
75-34-3	1,1-Dichloroethane	24	40	24	5.7	U
78-93-3	2-Butanone (MEK)	23	73	23	8.1	U
141-78-6	Ethyl Acetate	48	73	48	20	U
110-54-3	n-Hexane	27	38	23	8.1	J
67-66-3	Chloroform	12	39	12	5.2	U
109-99-9	Tetrahydrofuran (THF)	21	73	12	4.9	J
107-06-2	1,2-Dichloroethane	12	38	12	4.3	U
71-43-2	Benzene	120	38	12	5.6	
56-23-5	Carbon Tetrachloride	12	37	12	5.4	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV120-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00070

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.025 Liter(s)

Initial Pressure (psig): -3.40 Final Pressure (psig): 5.98

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	27	73	25	11	J
75-27-4	Bromodichloromethane	12	38	12	5.6	U
79-01-6	Trichloroethene	12	37	12	5.3	U
123-91-1	1,4-Dioxane	12	38	12	4.6	U
142-82-5	n-Heptane	23	38	23	6.2	U
108-10-1	4-Methyl-2-pentanone	12	73	12	5.3	U
108-88-3	Toluene	160	38	12	4.8	U
591-78-6	2-Hexanone	12	73	12	4.8	U
124-48-1	Dibromochloromethane	12	38	12	5.1	U
106-93-4	1,2-Dibromoethane	12	38	12	4.5	U
127-18-4	Tetrachloroethene	12	38	12	5.1	U
100-41-4	Ethylbenzene	8.9	38	12	5.5	J
179601-23-1	m,p-Xylenes	17	73	25	10	J
75-25-2	Bromoform	23	39	23	8.1	U
100-42-5	Styrene	23	38	23	6.3	U
95-47-6	o-Xylene	12	39	12	5.6	J
108-67-8	1,3,5-Trimethylbenzene	7.5	39	12	5.6	J
95-63-6	1,2,4-Trimethylbenzene	12	38	12	5.4	U
120-82-1	1,2,4-Trichlorobenzene	23	73	23	9.5	U
91-20-3	Naphthalene	23	38	23	9.5	U
1330-20-7	Xylenes, Total	28	73	25	10	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01194

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 6.11

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.2	1.4	0.56	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3.4	2.2	1.4	0.38	
74-87-3	Chloromethane	1.4	2.2	1.4	0.37	U
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	U
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.38	U
75-00-3	Chloroethane	1.4	2.2	1.4	0.29	U
64-17-5	Ethanol	82	23	3.6	1.6	
67-64-1	Acetone	12	22	12	5.2	J
75-69-4	Trichlorofluoromethane	1.2	2.2	1.4	0.35	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.3	2.7	0.95	U
75-09-2	Methylene Chloride	1.4	2.2	1.4	0.65	U
76-13-1	Trichlorotrifluoroethane	0.65	2.3	0.74	0.33	J
75-15-0	Carbon Disulfide	0.79	4.3	2.3	0.69	J
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.34	U
78-93-3	2-Butanone (MEK)	1.4	4.3	1.4	0.48	U
141-78-6	Ethyl Acetate	2.8	4.3	2.8	1.2	U
110-54-3	n-Hexane	1.4	2.2	1.4	0.48	U
67-66-3	Chloroform	640	23	7.4	3.1	D
109-99-9	Tetrahydrofuran (THF)	0.74	4.3	0.74	0.29	U
107-06-2	1,2-Dichloroethane	0.74	2.2	0.74	0.26	U
71-43-2	Benzene	0.74	2.2	0.74	0.33	U
56-23-5	Carbon Tetrachloride	11	2.2	0.74	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01194

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 6.11

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.3	1.5	0.65	U
75-27-4	Bromodichloromethane	<b>48</b>	2.2	0.74	0.33	
79-01-6	Trichloroethene	<b>2.5</b>	2.2	0.74	0.31	
123-91-1	1,4-Dioxane	0.74	2.2	0.74	0.27	U
142-82-5	n-Heptane	1.4	2.2	1.4	0.37	U
108-10-1	4-Methyl-2-pentanone	0.74	4.3	0.74	0.32	U
108-88-3	Toluene	<b>0.83</b>	2.2	0.74	0.28	J
591-78-6	2-Hexanone	0.74	4.3	0.74	0.29	U
124-48-1	Dibromochloromethane	<b>1.7</b>	2.2	0.74	0.30	J
106-93-4	1,2-Dibromoethane	0.74	2.2	0.74	0.27	U
127-18-4	Tetrachloroethene	<b>4.6</b>	2.2	0.74	0.30	
100-41-4	Ethylbenzene	0.74	2.2	0.74	0.32	U
179601-23-1	m,p-Xylenes	<b>0.67</b>	4.3	1.5	0.61	J
75-25-2	Bromoform	1.4	2.3	1.4	0.48	U
100-42-5	Styrene	1.4	2.2	1.4	0.37	U
95-47-6	o-Xylene	0.74	2.3	0.74	0.33	U
108-67-8	1,3,5-Trimethylbenzene	0.74	2.3	0.74	0.33	U
95-63-6	1,2,4-Trimethylbenzene	0.74	2.2	0.74	0.32	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.3	1.4	0.56	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.56	U
1330-20-7	Xylenes, Total	<b>0.67</b>	4.3	1.5	0.61	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00715

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.84 Final Pressure (psig): 6.51

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.3	1.4	0.58	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3.6	2.3	1.4	0.39	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	U
75-01-4	Vinyl Chloride	0.76	2.4	0.76	0.26	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.30	U
64-17-5	Ethanol	43	24	3.7	1.7	
67-64-1	Acetone	23	23	12	5.4	
75-69-4	Trichlorofluoromethane	1.2	2.3	1.4	0.36	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.5	2.8	0.98	U
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.67	U
76-13-1	Trichlorotrifluoroethane	0.72	2.4	0.76	0.34	J
75-15-0	Carbon Disulfide	3.3	4.5	2.4	0.72	J
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	2.3	4.5	1.4	0.49	J
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	U
110-54-3	n-Hexane	1.4	2.3	1.4	0.49	U
67-66-3	Chloroform	700	24	7.6	3.2	D
109-99-9	Tetrahydrofuran (THF)	9.3	4.5	0.76	0.30	
107-06-2	1,2-Dichloroethane	0.76	2.3	0.76	0.26	U
71-43-2	Benzene	0.41	2.3	0.76	0.34	J
56-23-5	Carbon Tetrachloride	14	2.3	0.76	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00715

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.84 Final Pressure (psig): 6.51

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.67	U
75-27-4	Bromodichloromethane	<b>52</b>	2.3	0.76	0.34	
79-01-6	Trichloroethene	<b>2.5</b>	2.3	0.76	0.32	
123-91-1	1,4-Dioxane	0.76	2.3	0.76	0.28	U
142-82-5	n-Heptane	1.4	2.3	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	0.76	4.5	0.76	0.33	U
108-88-3	Toluene	<b>1.4</b>	2.3	0.76	0.29	J
591-78-6	2-Hexanone	0.76	4.5	0.76	0.30	U
124-48-1	Dibromochloromethane	<b>2.3</b>	2.3	0.76	0.31	J
106-93-4	1,2-Dibromoethane	0.76	2.3	0.76	0.28	U
127-18-4	Tetrachloroethene	<b>4.9</b>	2.3	0.76	0.31	
100-41-4	Ethylbenzene	0.76	2.3	0.76	0.34	U
179601-23-1	m,p-Xylenes	<b>0.95</b>	4.5	1.5	0.63	J
75-25-2	Bromoform	1.4	2.4	1.4	0.49	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	0.76	2.4	0.76	0.34	U
108-67-8	1,3,5-Trimethylbenzene	0.76	2.4	0.76	0.34	U
95-63-6	1,2,4-Trimethylbenzene	0.76	2.3	0.76	0.33	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.58	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.58	U
1330-20-7	Xylenes, Total	<b>0.95</b>	4.5	1.5	0.63	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-145-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01158

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.53 Final Pressure (psig): 5.63

Container Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.89</b>	2.2	1.3	0.54	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>22</b>	2.2	1.3	0.36	
74-87-3	Chloromethane	1.3	2.2	1.3	0.36	<b>U</b>
75-01-4	Vinyl Chloride	0.71	2.2	0.71	0.24	<b>U</b>
106-99-0	1,3-Butadiene	1.3	2.2	1.3	0.37	<b>U</b>
75-00-3	Chloroethane	1.3	2.2	1.3	0.28	<b>U</b>
64-17-5	Ethanol	<b>29</b>	22	3.5	1.5	
67-64-1	Acetone	<b>16</b>	22	11	5.0	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>2.0</b>	2.1	1.3	0.34	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.6	4.2	2.6	0.92	<b>U</b>
75-09-2	Methylene Chloride	1.3	2.2	1.3	0.63	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>1.2</b>	2.2	0.71	0.32	<b>J</b>
75-15-0	Carbon Disulfide	<b>23</b>	4.2	2.3	0.67	
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.33	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>5.5</b>	4.2	1.3	0.46	
141-78-6	Ethyl Acetate	2.7	4.2	2.7	1.2	<b>U</b>
110-54-3	n-Hexane	<b>0.51</b>	2.2	1.3	0.46	<b>J</b>
67-66-3	Chloroform	<b>65</b>	2.2	0.71	0.30	
109-99-9	Tetrahydrofuran (THF)	<b>36</b>	4.2	0.71	0.28	
107-06-2	1,2-Dichloroethane	0.71	2.2	0.71	0.25	<b>U</b>
71-43-2	Benzene	<b>0.92</b>	2.2	0.71	0.32	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>19</b>	2.1	0.71	0.31	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-145-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-017

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01158

Initial Pressure (psig): -2.53 Final Pressure (psig): 5.63

Container Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.4	4.2	1.4	0.63	U
75-27-4	Bromodichloromethane	5.5	2.2	0.71	0.32	
79-01-6	Trichloroethene	0.45	2.1	0.71	0.30	J
123-91-1	1,4-Dioxane	1.0	2.2	0.71	0.26	J
142-82-5	n-Heptane	0.75	2.2	1.3	0.35	J
108-10-1	4-Methyl-2-pentanone	0.71	4.2	0.71	0.30	U
108-88-3	Toluene	4.6	2.2	0.71	0.27	
591-78-6	2-Hexanone	0.71	4.2	0.71	0.28	U
124-48-1	Dibromochloromethane	0.71	2.2	0.71	0.29	U
106-93-4	1,2-Dibromoethane	0.71	2.2	0.71	0.26	U
127-18-4	Tetrachloroethene	3.2	2.2	0.71	0.29	
100-41-4	Ethylbenzene	0.91	2.2	0.71	0.31	J
179601-23-1	m,p-Xylenes	5.5	4.2	1.4	0.58	
75-25-2	Bromoform	1.3	2.2	1.3	0.46	U
100-42-5	Styrene	1.3	2.2	1.3	0.36	U
95-47-6	o-Xylene	2.2	2.2	0.71	0.32	J
108-67-8	1,3,5-Trimethylbenzene	0.67	2.2	0.71	0.32	J
95-63-6	1,2,4-Trimethylbenzene	2.3	2.2	0.71	0.31	
120-82-1	1,2,4-Trichlorobenzene	1.3	4.2	1.3	0.54	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.54	U
1330-20-7	Xylenes, Total	7.6	4.2	1.4	0.58	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-145-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00063

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.56 Final Pressure (psig): 6.55

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.69</b>	2.3	1.4	0.57	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>22</b>	2.3	1.4	0.38	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	<b>U, V</b>
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	<b>U</b>
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	<b>U</b>
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	<b>U</b>
64-17-5	Ethanol	<b>18</b>	23	3.6	1.6	<b>J</b>
67-64-1	Acetone	<b>22</b>	23	12	5.3	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>2.0</b>	2.2	1.4	0.35	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.4	2.8	0.96	<b>U</b>
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.66	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>1.3</b>	2.3	0.74	0.33	<b>J</b>
75-15-0	Carbon Disulfide	<b>16</b>	4.4	2.4	0.70	
75-34-3	1,1-Dichloroethane	1.4	2.4	1.4	0.34	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>7.6</b>	4.4	1.4	0.48	
141-78-6	Ethyl Acetate	<b>1.5</b>	4.4	2.8	1.2	<b>J</b>
110-54-3	n-Hexane	1.4	2.3	1.4	0.48	<b>U</b>
67-66-3	Chloroform	<b>65</b>	2.3	0.74	0.31	
109-99-9	Tetrahydrofuran (THF)	<b>36</b>	4.4	0.74	0.29	
107-06-2	1,2-Dichloroethane	0.74	2.3	0.74	0.26	<b>U</b>
71-43-2	Benzene	0.74	2.3	0.74	0.34	<b>U</b>
56-23-5	Carbon Tetrachloride	<b>19</b>	2.2	0.74	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-145-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00063

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.56 Final Pressure (psig): 6.55

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.4	1.5	0.66	U
75-27-4	Bromodichloromethane	5.4	2.3	0.74	0.34	
79-01-6	Trichloroethene	0.54	2.2	0.74	0.32	J
123-91-1	1,4-Dioxane	0.54	2.3	0.74	0.28	J
142-82-5	n-Heptane	1.4	2.3	1.4	0.37	U
108-10-1	4-Methyl-2-pentanone	0.74	4.4	0.74	0.32	U
108-88-3	Toluene	0.54	2.3	0.74	0.28	J
591-78-6	2-Hexanone	0.53	4.4	0.74	0.29	J
124-48-1	Dibromochloromethane	0.74	2.3	0.74	0.31	U
106-93-4	1,2-Dibromoethane	0.74	2.3	0.74	0.27	U
127-18-4	Tetrachloroethene	3.3	2.3	0.74	0.30	
100-41-4	Ethylbenzene	0.74	2.3	0.74	0.33	U
179601-23-1	m,p-Xylenes	1.5	4.4	1.5	0.61	U
75-25-2	Bromoform	1.4	2.3	1.4	0.48	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	0.74	2.3	0.74	0.34	U
108-67-8	1,3,5-Trimethylbenzene	0.74	2.3	0.74	0.34	U
95-63-6	1,2,4-Trimethylbenzene	0.74	2.3	0.74	0.32	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.57	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.57	U
1330-20-7	Xylenes, Total	1.5	4.4	1.5	0.61	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00929

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.48 Final Pressure (psig): 7.36

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	6.6	2.4	1.4	0.59	
75-71-8	Dichlorodifluoromethane (CFC 12)	41	2.4	1.4	0.39	
74-87-3	Chloromethane	1.4	2.4	1.4	0.39	U, V
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	U
106-99-0	1,3-Butadiene	1.4	2.4	1.4	0.40	U
75-00-3	Chloroethane	1.4	2.4	1.4	0.30	U
64-17-5	Ethanol	34	24	3.8	1.7	
67-64-1	Acetone	44	24	12	5.4	
75-69-4	Trichlorofluoromethane	3.2	2.3	1.4	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.0	4.5	2.9	1.0	J
75-09-2	Methylene Chloride	1.4	2.4	1.4	0.68	U
76-13-1	Trichlorotrifluoroethane	1.8	2.4	0.77	0.34	J
75-15-0	Carbon Disulfide	52	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	8.2	4.5	1.4	0.50	
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	U
110-54-3	n-Hexane	1.4	2.4	1.4	0.50	U
67-66-3	Chloroform	2.5	2.4	0.77	0.32	
109-99-9	Tetrahydrofuran (THF)	5.5	4.5	0.77	0.30	
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	0.44	2.4	0.77	0.35	J
56-23-5	Carbon Tetrachloride	3.7	2.3	0.77	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00929

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.48 Final Pressure (psig): 7.36

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.68	U
75-27-4	Bromodichloromethane	0.77	2.4	0.77	0.35	U
79-01-6	Trichloroethene	<b>0.72</b>	2.3	0.77	0.33	J
123-91-1	1,4-Dioxane	<b>0.49</b>	2.4	0.77	0.29	J
142-82-5	n-Heptane	1.4	2.4	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	<b>0.46</b>	4.5	0.77	0.33	J
108-88-3	Toluene	<b>0.76</b>	2.4	0.77	0.29	J
591-78-6	2-Hexanone	<b>2.2</b>	4.5	0.77	0.30	J
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	<b>0.46</b>	2.4	0.77	0.31	J
100-41-4	Ethylbenzene	0.77	2.4	0.77	0.34	U
179601-23-1	m,p-Xylenes	1.5	4.5	1.5	0.63	U
75-25-2	Bromoform	1.4	2.4	1.4	0.50	U
100-42-5	Styrene	1.4	2.4	1.4	0.39	U
95-47-6	o-Xylene	0.77	2.4	0.77	0.35	U
108-67-8	1,3,5-Trimethylbenzene	0.77	2.4	0.77	0.35	U
95-63-6	1,2,4-Trimethylbenzene	0.77	2.4	0.77	0.33	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.59	U
91-20-3	Naphthalene	<b>1.3</b>	2.4	1.4	0.59	J
1330-20-7	Xylenes, Total	1.5	4.5	1.5	0.63	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00478

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.75 Final Pressure (psig): 6.41

Container Dilution Factor: 1.77

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.3	1.4	0.58	J
75-71-8	Dichlorodifluoromethane (CFC 12)	110	2.3	1.4	0.38	
74-87-3	Chloromethane	0.43	2.3	1.4	0.38	J, V
75-01-4	Vinyl Chloride	0.75	2.3	0.75	0.25	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	U
64-17-5	Ethanol	29	23	3.7	1.6	
67-64-1	Acetone	35	23	12	5.3	
75-69-4	Trichlorofluoromethane	13	2.3	1.4	0.36	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.0	4.4	2.8	0.97	J
75-09-2	Methylene Chloride	2.9	2.3	1.4	0.66	
76-13-1	Trichlorotrifluoroethane	3.8	2.3	0.75	0.34	
75-15-0	Carbon Disulfide	4.5	4.4	2.4	0.71	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	9.8	4.4	1.4	0.49	
141-78-6	Ethyl Acetate	53	4.4	2.9	1.2	
110-54-3	n-Hexane	0.50	2.3	1.4	0.49	J
67-66-3	Chloroform	0.66	2.3	0.75	0.31	J
109-99-9	Tetrahydrofuran (THF)	1.1	4.4	0.75	0.30	J
107-06-2	1,2-Dichloroethane	0.75	2.3	0.75	0.26	U
71-43-2	Benzene	0.85	2.3	0.75	0.34	J
56-23-5	Carbon Tetrachloride	0.53	2.3	0.75	0.33	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

ALS Sample ID: P2005894-020

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/3/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00478

Initial Pressure (psig): -2.75 Final Pressure (psig): 6.41

Container Dilution Factor: 1.77

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.4	1.5	0.66	U
75-27-4	Bromodichloromethane	0.75	2.3	0.75	0.34	U
79-01-6	Trichloroethene	0.75	2.3	0.75	0.32	U
123-91-1	1,4-Dioxane	0.75	2.3	0.75	0.28	U
142-82-5	n-Heptane	1.4	2.3	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	0.75	4.4	0.75	0.32	U
108-88-3	Toluene	<b>2.9</b>	2.3	0.75	0.29	
591-78-6	2-Hexanone	<b>0.81</b>	4.4	0.75	0.29	J
124-48-1	Dibromochloromethane	0.75	2.3	0.75	0.31	U
106-93-4	1,2-Dibromoethane	0.75	2.3	0.75	0.27	U
127-18-4	Tetrachloroethene	<b>0.47</b>	2.3	0.75	0.31	J
100-41-4	Ethylbenzene	0.75	2.3	0.75	0.33	U
179601-23-1	m,p-Xylenes	<b>0.84</b>	4.4	1.5	0.62	J
75-25-2	Bromoform	1.4	2.3	1.4	0.49	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	0.75	2.3	0.75	0.34	U
108-67-8	1,3,5-Trimethylbenzene	0.75	2.3	0.75	0.34	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.37</b>	2.3	0.75	0.33	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.58	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.58	U
1330-20-7	Xylenes, Total	<b>0.84</b>	4.4	1.5	0.62	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U, V
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date(s) Collected: 10/12 - 10/13/20

Analyst: Simon Cao/Topacio De Leon/Wida Ang

Date(s) Received: 10/19/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 11/2 - 11/3/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201102-MB	100	105	107	70-130	
Method Blank	P201103-MB	102	104	108	70-130	
Lab Control Sample	P201102-LCS	100	100	104	70-130	
Lab Control Sample	P201103-LCS	101	99	105	70-130	
Duplicate Lab Control Sample	P201102-DLCS	100	101	103	70-130	
Duplicate Lab Control Sample	P201103-DLCS	101	100	103	70-130	
SV115-025-604	P2005894-001	103	102	109	70-130	
SV115-025-204	P2005894-002	103	103	110	70-130	
SV115-050-204	P2005894-003	103	103	110	70-130	
SV115-150-204	P2005894-004	105	103	110	70-130	
SV115-250-204	P2005894-005	103	103	110	70-130	
SV115-350-204	P2005894-006	104	102	109	70-130	
SV115-450-204	P2005894-007	103	101	107	70-130	
SV120-025-204	P2005894-008	103	103	107	70-130	
SV120-025-604	P2005894-009	103	102	108	70-130	
SV120-050-204	P2005894-010	102	102	108	70-130	
SV120-150-204	P2005894-011	102	103	108	70-130	
SV120-250-204	P2005894-012	103	101	108	70-130	
SV120-350-204	P2005894-013	102	102	109	70-130	
SV120-450-204	P2005894-014	100	102	108	70-130	
SV121-025-204	P2005894-015	104	102	108	70-130	
SV121-050-204	P2005894-016	104	102	108	70-130	
SV121-145-604	P2005894-017	103	102	109	70-130	
SV121-145-204	P2005894-018	103	103	106	70-130	
SV121-250-204	P2005894-019	102	104	107	70-130	
SV121-350-204	P2005894-020	103	103	107	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
115-07-1	Propene	210	193	187		<b>92</b>	<b>89</b>	57-136	3	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	197	198		<b>94</b>	<b>94</b>	59-128	0	25
74-87-3	Chloromethane	206	198	191		<b>96</b>	<b>93</b>	59-132	3	25
75-01-4	Vinyl Chloride	208	206	199		<b>99</b>	<b>96</b>	64-127	3	25
106-99-0	1,3-Butadiene	210	227	222		<b>108</b>	<b>106</b>	66-134	2	25
75-00-3	Chloroethane	204	189	183		<b>93</b>	<b>90</b>	63-127	3	25
64-17-5	Ethanol	998	844	824		<b>85</b>	<b>83</b>	59-125	2	25
67-64-1	Acetone	1,030	886	864		<b>86</b>	<b>84</b>	58-128	2	25
75-69-4	Trichlorofluoromethane	204	195	195		<b>96</b>	<b>96</b>	62-126	0	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	358	352		<b>88</b>	<b>86</b>	52-125	2	25
75-09-2	Methylene Chloride	208	196	193		<b>94</b>	<b>93</b>	62-115	1	25
76-13-1	Trichlorotrifluoroethane	214	205	203		<b>96</b>	<b>95</b>	66-126	1	25
75-15-0	Carbon Disulfide	428	410	403		<b>96</b>	<b>94</b>	57-134	2	25
75-34-3	1,1-Dichloroethane	212	194	191		<b>92</b>	<b>90</b>	68-126	2	25
78-93-3	2-Butanone (MEK)	412	412	400		<b>100</b>	<b>97</b>	67-130	3	25
141-78-6	Ethyl Acetate	422	525	513		<b>124</b>	<b>122</b>	65-128	2	25
110-54-3	n-Hexane	212	186	183		<b>88</b>	<b>86</b>	63-120	2	25
67-66-3	Chloroform	214	198	197		<b>93</b>	<b>92</b>	68-123	1	25
109-99-9	Tetrahydrofuran (THF)	400	381	372		<b>95</b>	<b>93</b>	64-123	2	25
107-06-2	1,2-Dichloroethane	208	202	200		<b>97</b>	<b>96</b>	65-128	1	25
71-43-2	Benzene	204	193	189		<b>95</b>	<b>93</b>	69-119	2	25
56-23-5	Carbon Tetrachloride	210	198	198		<b>94</b>	<b>94</b>	68-132	0	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	396	387		<b>95</b>	<b>93</b>	70-117	2	25
75-27-4	Bromodichloromethane	210	206	204		<b>98</b>	<b>97</b>	72-128	1	25
79-01-6	Trichloroethene	206	196	193		<b>95</b>	<b>94</b>	71-123	1	25
123-91-1	1,4-Dioxane	208	214	209		<b>103</b>	<b>100</b>	71-122	3	25
142-82-5	n-Heptane	210	196	191		<b>93</b>	<b>91</b>	69-123	2	25
108-10-1	4-Methyl-2-pentanone	416	434	422		<b>104</b>	<b>101</b>	67-130	3	25
108-88-3	Toluene	206	200	198		<b>97</b>	<b>96</b>	66-119	1	25
591-78-6	2-Hexanone	404	443	437		<b>110</b>	<b>108</b>	62-128	2	25
124-48-1	Dibromochloromethane	210	228	226		<b>109</b>	<b>108</b>	70-130	0.9	25
106-93-4	1,2-Dibromoethane	208	222	219		<b>107</b>	<b>105</b>	74-122	2	25
127-18-4	Tetrachloroethene	206	212	208		<b>103</b>	<b>101</b>	66-124	2	25
100-41-4	Ethylbenzene	206	207	206		<b>100</b>	<b>100</b>	70-124	0	25
179601-23-1	m,p-Xylenes	412	417	416		<b>101</b>	<b>101</b>	61-134	0	25
75-25-2	Bromoform	208	237	237		<b>114</b>	<b>114</b>	66-139	0	25
100-42-5	Styrene	206	228	225		<b>111</b>	<b>109</b>	73-127	2	25
95-47-6	o-Xylene	206	209	208		<b>101</b>	<b>101</b>	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	206	212	211		<b>103</b>	<b>102</b>	67-130	1	25
95-63-6	1,2,4-Trimethylbenzene	204	215	213		<b>105</b>	<b>104</b>	66-132	1	25
120-82-1	1,2,4-Trichlorobenzene	388	437	442		<b>113</b>	<b>114</b>	55-142	0.9	25
91-20-3	Naphthalene	198	227	229		<b>115</b>	<b>116</b>	57-138	0.9	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$			Limits	Limit	
115-07-1	Propene	210	184	184		<b>88</b>	<b>88</b>	57-136	0	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	197	198		<b>94</b>	<b>94</b>	59-128	0	25
74-87-3	Chloromethane	206	181	178		<b>88</b>	<b>86</b>	59-132	2	25
75-01-4	Vinyl Chloride	208	198	197		<b>95</b>	<b>95</b>	64-127	0	25
106-99-0	1,3-Butadiene	210	216	218		<b>103</b>	<b>104</b>	66-134	1	25
75-00-3	Chloroethane	204	181	180		<b>89</b>	<b>88</b>	63-127	1	25
64-17-5	Ethanol	998	807	812		<b>81</b>	<b>81</b>	59-125	0	25
67-64-1	Acetone	1,030	854	850		<b>83</b>	<b>83</b>	58-128	0	25
75-69-4	Trichlorofluoromethane	204	195	198		<b>96</b>	<b>97</b>	62-126	1	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	346	345		<b>85</b>	<b>85</b>	52-125	0	25
75-09-2	Methylene Chloride	208	190	191		<b>91</b>	<b>92</b>	62-115	1	25
76-13-1	Trichlorotrifluoroethane	214	203	204		<b>95</b>	<b>95</b>	66-126	0	25
75-15-0	Carbon Disulfide	428	395	393		<b>92</b>	<b>92</b>	57-134	0	25
75-34-3	1,1-Dichloroethane	212	190	190		<b>90</b>	<b>90</b>	68-126	0	25
78-93-3	2-Butanone (MEK)	412	394	392		<b>96</b>	<b>95</b>	67-130	1	25
141-78-6	Ethyl Acetate	422	508	501		<b>120</b>	<b>119</b>	65-128	0.8	25
110-54-3	n-Hexane	212	181	180		<b>85</b>	<b>85</b>	63-120	0	25
67-66-3	Chloroform	214	196	196		<b>92</b>	<b>92</b>	68-123	0	25
109-99-9	Tetrahydrofuran (THF)	400	363	367		<b>91</b>	<b>92</b>	64-123	1	25
107-06-2	1,2-Dichloroethane	208	201	202		<b>97</b>	<b>97</b>	65-128	0	25
71-43-2	Benzene	204	187	187		<b>92</b>	<b>92</b>	69-119	0	25
56-23-5	Carbon Tetrachloride	210	198	200		<b>94</b>	<b>95</b>	68-132	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005894  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	384	385	92	93	70-117	1	25	
75-27-4	Bromodichloromethane	210	203	204	97	97	72-128	0	25	
79-01-6	Trichloroethene	206	191	193	93	94	71-123	1	25	
123-91-1	1,4-Dioxane	208	207	208	100	100	71-122	0	25	
142-82-5	n-Heptane	210	190	190	90	90	69-123	0	25	
108-10-1	4-Methyl-2-pentanone	416	417	419	100	101	67-130	1	25	
108-88-3	Toluene	206	192	193	93	94	66-119	1	25	
591-78-6	2-Hexanone	404	424	421	105	104	62-128	1	25	
124-48-1	Dibromochloromethane	210	220	220	105	105	70-130	0	25	
106-93-4	1,2-Dibromoethane	208	212	211	102	101	74-122	1	25	
127-18-4	Tetrachloroethene	206	202	203	98	99	66-124	1	25	
100-41-4	Ethylbenzene	206	200	201	97	98	70-124	1	25	
179601-23-1	m,p-Xylenes	412	404	397	98	96	61-134	2	25	
75-25-2	Bromoform	208	228	231	110	111	66-139	0.9	25	
100-42-5	Styrene	206	218	218	106	106	73-127	0	25	
95-47-6	o-Xylene	206	202	203	98	99	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	206	206	206	100	100	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	204	207	208	101	102	66-132	1	25	
120-82-1	1,2,4-Trichlorobenzene	388	428	433	110	112	55-142	2	25	
91-20-3	Naphthalene	198	222	225	112	114	57-138	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005894  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 11022001.D  
Analyst: Wida Ang Date Analyzed: 11/2/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 03:33  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	147992	9.16	633150	11.11	256492	15.45
<b>Upper Limit</b>	207189	9.49	886410	11.44	359089	15.78
<b>Lower Limit</b>	88795	8.83	379890	10.78	153895	15.12

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
		AREA #	RT #	AREA #
01	Method Blank	137925	9.12	601300
02	Lab Control Sample	147464	9.16	629422
03	Duplicate Lab Control Sample	148105	9.16	634885
04	SV115-025-604	147330	9.13	630430
05	SV115-025-204	138683	9.13	597695
06	SV115-050-204	140709	9.13	602664
07	SV115-150-204	140679	9.13	608344
08	SV115-250-204	141691	9.13	606393
09	SV115-350-204	141814	9.13	603041
10	SV115-450-204	150495	9.14	644164
11	SV120-025-604	150618	9.13	643307
12	SV120-250-204	141231	9.13	604153
13	SV121-025-204	143403	9.13	616436
14	SV121-050-204	143131	9.13	626614
15	SV121-145-604	143651	9.13	616852
16	SV120-050-204	146145	9.14	626657
17	SV120-150-204	144658	9.13	616793
18	SV120-050-204 (Dilution)	139401	9.13	603289
19	SV121-025-204 (Dilution)	140017	9.13	600525
20	SV121-050-204 (Dilution)	135456	9.13	588251

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005894  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 11032001.D  
Analyst: Simon Cao Date Analyzed: 11/3/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 02:23  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	156392	9.16	665055	11.11	275308	15.45
<b>Upper Limit</b>	218949	9.49	931077	11.44	385431	15.78
<b>Lower Limit</b>	93835	8.83	399033	10.78	165185	15.12

## Client Sample ID

Client Sample ID	IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
01 Method Blank	141679	9.13	609050
02 Lab Control Sample	151215	9.16	646168
03 Duplicate Lab Control Sample	149642	9.16	637672
04 SV120-025-204	142956	9.13	617313
05 SV121-145-204	142607	9.13	623055
06 SV121-250-204	146583	9.13	629096
07 SV121-350-204	143140	9.13	615775
08 SV120-350-204	144945	9.13	635877
09 SV120-450-204	147868	9.13	636354
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



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## LABORATORY REPORT

November 6, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 19, 2020. For your reference, these analyses have been assigned our service request number P2005895.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

By Hayden Akers at 5:39 pm, Nov 06, 2020

For Kate Kaneko  
Project Manager

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 Simi Valley, CA 93065  
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[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2005895

### CASE NARRATIVE

The samples were received intact under chain of custody on October 19, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

#### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The upper control criterion was exceeded for Ethyl acetate in the Laboratory Control Samples (LCS/LCSD) analyzed on November 3, 2020. Therefore, a potential for a high bias exists for those associated sample concentrations reported with positive results. The data has been qualified accordingly.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2005895-001, 007, 007dup, 009, 012,013	Propene
P2005895-001	Ethanol
P2005895-003, 005, 008,009,014	Acetone

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2005895

Date Received: 10/19/2020  
 Time Received: 09:30

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SV121-450-204	P2005895-001	Air	10/12/2020	11:07	1SS00503	-2.64	7.10	X
SV122-025-204	P2005895-002	Air	10/12/2020	08:15	1SS01018	-4.44	7.40	X
SV122-050-204	P2005895-003	Air	10/12/2020	08:19	1SC00894	-2.37	7.50	X
SV122-150-204	P2005895-004	Air	10/12/2020	08:22	1SS00973	-2.46	7.20	X
SV122-250-204	P2005895-005	Air	10/12/2020	08:26	1SC00536	-2.25	7.70	X
SV122-350-204	P2005895-006	Air	10/12/2020	08:29	1SS00782	-2.24	7.15	X
SV122-450-204	P2005895-007	Air	10/12/2020	08:38	1SC00446	-2.84	7.99	X
SV123-025-204	P2005895-008	Air	10/12/2020	11:45	1SC00015	-2.54	7.30	X
SV123-050-204	P2005895-009	Air	10/12/2020	11:49	1SC01068	-2.79	7.90	X
SV123-150-204	P2005895-010	Air	10/12/2020	11:52	1SC01359	-3.01	7.57	X
SV123-250-204	P2005895-011	Air	10/12/2020	11:55	1SC01098	-2.81	8.11	X
SV123-350-204	P2005895-012	Air	10/12/2020	11:58	1SS00720	-3.63	7.20	X
SV123-450-204	P2005895-013	Air	10/12/2020	12:08	1SS00744	-3.10	7.40	X
SV132-025-204	P2005895-014	Air	10/12/2020	12:14	1SS00183	-3.41	7.29	X
SV132-050-204	P2005895-015	Air	10/12/2020	12:18	1SS00136	-4.31	8.00	X
SV132-175-204	P2005895-016	Air	10/12/2020	12:21	1SS00546	-3.38	8.48	X
SV132-250-204	P2005895-017	Air	10/12/2020	12:23	1SS00543	-3.38	8.16	X
SV132-350-204	P2005895-018	Air	10/12/2020	12:27	1SS00593	-3.99	7.93	X
SV132-450-204	P2005895-019	Air	10/12/2020	12:35	1SC01037	-2.81	8.00	X
SV134-025-204	P2005895-020	Air	10/12/2020	13:12	1SS00932	-2.54	7.80	X





**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-06**

Requested Turnaround Time in Business Days: **10 Day-Standard**

ALS Project No: **1805895**

ALS Contact: **Kate Kaneiko**  
 1 (805) 577-2089

**Company Name & Address (Reporting Information)**  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

**Project Name:** Kirtland AFB Bulk Fuels Facility  
**Project Number:** 62735DM02  
**P.O. # / Billing Information:** 17682  
**Sampler (Print & Sign):**

**Project Manager / Project Chemist:** Devon Jermolovic (505) 715-4248 / Pam Moss (303) 590-9143  
**Email Address for Result Reporting:**  
 Tara Lamond: [tiamond@eaest.com](mailto:tiamond@eaest.com)  
 Amanda Smith: [asmith@eaest.com](mailto:asmith@eaest.com)  
 Pam Moss: [pmoss@eaest.com](mailto:pmoss@eaest.com)

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments e.g. Actual Preservative or specific instructions
SV123-250-204	11	10/12/2020	1155	1SC01088	NA	-26.0	-2.0	1L	TO-15 Project Specific List
SV123-350-204	12	10/12/2020	1158	1SS00720	NA	-25.0	-1.5	1L	
SV123-450-204	13	10/12/2020	1208	1SS00744	NA	-25.5	-2.5	1L	
SV132-025-204	14	10/12/2020	1214	1SS00183	NA	-26.0	-2.0	1L	
SV132-050-204	15	10/12/2020	1218	1SS00136	NA	-26.0	-4.0	1L	
SV132-175-204	16	10/12/2020	1221	1SS00546	NA	-25.0	-2.0	1L	
SV132-250-204	17	10/12/2020	1223	1SS00543	NA	-25.5	-2.5	1L	
SV132-350-204	18	10/12/2020	1227	1SS00593	NA	-29.0	-5.0	1L	
SV132-450-204	19	10/12/2020	1235	1SC01037	NA	-25.0	-1.5	1L	
SV134-025-204	20	10/12/2020	1312	1SS00692	NA	-20.5	-1.0	1L	

FedEX Tracking Number: **1028 3402 4301**

Shipping Information: Box number **3** of **6**

Report Tier Levels - please select  
 Tier I - Results (Default, if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) *[Signature]* Date: **10/14/20** Time: **1000**  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

EDD required: Yes  
 Type: ERPIMS / EQUIS  
 Received by: (Signature) *[Signature]* Date: **10/19/20** Time: **11:30**  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Chain of Custody Seal: (Circle)  
 INTACT  BROKEN  ABSENT   
 Project Requirements: OAPP  
 Cooler / Blank Temperature, NA, °C

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2005895  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/19/2020 Date opened: 10/19/2020 by: DENISE.POSADA

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |    |   | <u>Yes</u>                          | <u>No</u>                | <u>N/A</u>                          |
|----|---|-------------------------------------|--------------------------|-------------------------------------|
| 1  | Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2  | Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3  | Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4  | Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5  | Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6  | Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7  | Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8  | Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Location of seal(s)? <u>Box sealing.</u> Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9  | Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Is there a client indication that the submitted samples are <b>pH</b> preserved?                              | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?     | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 | <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2005895-001.01	1.0 L Source Silonite Canister					
P2005895-002.01	1.0 L Source Silonite Canister					
P2005895-003.01	1.0 L Source Can					
P2005895-004.01	1.0 L Source Silonite Canister					
P2005895-005.01	1.0 L Source Can					
P2005895-006.01	1.0 L Source Silonite Canister					
P2005895-007.01	1.0 L Source Can					
P2005895-008.01	1.0 L Source Can					
P2005895-009.01	1.0 L Source Can					
P2005895-010.01	1.0 L Source Can					
P2005895-011.01	1.0 L Source Can					
P2005895-012.01	1.0 L Source Silonite Canister					
P2005895-013.01	1.0 L Source Silonite Canister					
P2005895-014.01	1.0 L Source Silonite Canister					
P2005895-015.01	1.0 L Source Silonite Canister					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00503

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.080 Liter(s)

Initial Pressure (psig): -2.64 Final Pressure (psig): 7.10

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	4.3	6.8	4.2	1.7	J
75-71-8	Dichlorodifluoromethane (CFC 12)	25	2.4	1.5	0.40	
74-87-3	Chloromethane	28	5.7	3.5	0.94	
75-01-4	Vinyl Chloride	4.4	4.7	1.5	0.50	J
106-99-0	1,3-Butadiene	3.3	5.3	3.3	0.90	U
75-00-3	Chloroethane	2.9	4.5	2.7	0.57	J
64-17-5	Ethanol	10	64	10	4.4	U
67-64-1	Acetone	26	50	26	11	U
75-69-4	Trichlorofluoromethane	2.3	2.1	1.3	0.33	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.8	9.2	5.8	2.0	U
75-09-2	Methylene Chloride	2.1	3.4	2.1	0.98	U
76-13-1	Trichlorotrifluoroethane	0.38	1.6	0.50	0.22	J
75-15-0	Carbon Disulfide	80	7.3	3.9	1.2	
75-34-3	1,1-Dichloroethane	1.6	3.0	1.8	0.44	J
78-93-3	2-Butanone (MEK)	1.2	7.7	2.5	0.84	J
141-78-6	Ethyl Acetate	4.1	6.3	4.1	1.8	U, L
110-54-3	n-Hexane	4.0	3.3	2.1	0.71	
67-66-3	Chloroform	0.79	2.5	0.79	0.33	U
109-99-9	Tetrahydrofuran (THF)	16	7.7	1.3	0.51	
107-06-2	1,2-Dichloroethane	0.68	2.9	0.95	0.33	J
71-43-2	Benzene	52	3.7	1.2	0.55	
56-23-5	Carbon Tetrachloride	0.61	1.8	0.61	0.27	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00503

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.080 Liter(s)

Initial Pressure (psig): -2.64 Final Pressure (psig): 7.10

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>21</b>	6.6	2.2	0.99	
75-27-4	Bromodichloromethane	0.57	1.8	0.57	0.26	U
79-01-6	Trichloroethene	0.72	2.1	0.72	0.30	U
123-91-1	1,4-Dioxane	1.1	3.3	1.1	0.40	U
142-82-5	n-Heptane	<b>0.98</b>	2.9	1.8	0.47	J
108-10-1	4-Methyl-2-pentanone	0.94	5.5	0.94	0.40	U
108-88-3	Toluene	<b>150</b>	3.1	1.0	0.39	
591-78-6	2-Hexanone	0.94	5.5	0.94	0.36	U
124-48-1	Dibromochloromethane	0.45	1.4	0.45	0.19	U
106-93-4	1,2-Dibromoethane	0.50	1.5	0.50	0.18	U
127-18-4	Tetrachloroethene	0.57	1.7	0.57	0.23	U
100-41-4	Ethylbenzene	<b>7.1</b>	2.7	0.89	0.39	
179601-23-1	m,p-Xylenes	<b>10</b>	5.2	1.8	0.73	
75-25-2	Bromoform	0.70	1.2	0.70	0.24	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	<b>3.5</b>	2.8	0.89	0.40	
108-67-8	1,3,5-Trimethylbenzene	0.78	2.4	0.78	0.35	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.49</b>	2.4	0.78	0.34	J
120-82-1	1,2,4-Trichlorobenzene	0.98	3.0	0.98	0.40	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.56	U
1330-20-7	Xylenes, Total	<b>14</b>	5.2	1.8	0.73	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01018

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.44 Final Pressure (psig): 7.40

Container Dilution Factor: 2.15

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.0	1.6	1.0	0.41	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.49</b>	0.57	0.35	0.095	J
74-87-3	Chloromethane	0.83	1.4	0.83	0.22	U
75-01-4	Vinyl Chloride	0.36	1.1	0.36	0.12	U
106-99-0	1,3-Butadiene	0.78	1.3	0.78	0.21	U
75-00-3	Chloroethane	0.65	1.1	0.65	0.13	U
64-17-5	Ethanol	<b>1.7</b>	15	2.4	1.1	J
67-64-1	Acetone	<b>4.5</b>	12	6.1	2.7	J
75-69-4	Trichlorofluoromethane	<b>0.20</b>	0.49	0.31	0.078	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.48	U
75-09-2	Methylene Chloride	0.50	0.80	0.50	0.23	U
76-13-1	Trichlorotrifluoroethane	0.12	0.37	0.12	0.053	U
75-15-0	Carbon Disulfide	<b>2.1</b>	1.7	0.93	0.28	
75-34-3	1,1-Dichloroethane	0.44	0.72	0.44	0.10	U
78-93-3	2-Butanone (MEK)	<b>1.3</b>	1.8	0.58	0.20	J
141-78-6	Ethyl Acetate	<b>2.5</b>	1.5	0.97	0.42	L
110-54-3	n-Hexane	<b>0.31</b>	0.79	0.49	0.17	J
67-66-3	Chloroform	<b>17</b>	0.58	0.19	0.078	
109-99-9	Tetrahydrofuran (THF)	0.31	1.8	0.31	0.12	U
107-06-2	1,2-Dichloroethane	0.23	0.69	0.23	0.078	U
71-43-2	Benzene	<b>0.51</b>	0.88	0.29	0.13	J
56-23-5	Carbon Tetrachloride	<b>0.20</b>	0.44	0.15	0.063	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-002

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01018

Initial Pressure (psig): -4.44 Final Pressure (psig): 7.40

Container Dilution Factor: 2.15

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.36</b>	1.6	0.53	0.23	<b>J</b>
75-27-4	Bromodichloromethane	<b>1.1</b>	0.42	0.14	0.062	
79-01-6	Trichloroethene	<b>0.12</b>	0.51	0.17	0.072	<b>J</b>
123-91-1	1,4-Dioxane	0.25	0.78	0.25	0.094	<b>U</b>
142-82-5	n-Heptane	<b>0.37</b>	0.68	0.42	0.11	<b>J</b>
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.096	<b>U</b>
108-88-3	Toluene	<b>1.9</b>	0.74	0.24	0.093	
591-78-6	2-Hexanone	<b>0.87</b>	1.3	0.22	0.087	<b>J</b>
124-48-1	Dibromochloromethane	0.11	0.33	0.11	0.044	<b>U</b>
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.16</b>	0.41	0.13	0.055	<b>J</b>
100-41-4	Ethylbenzene	<b>0.33</b>	0.64	0.21	0.093	<b>J</b>
179601-23-1	m,p-Xylenes	<b>1.3</b>	1.2	0.42	0.17	
75-25-2	Bromoform	0.17	0.28	0.17	0.057	<b>U</b>
100-42-5	Styrene	0.40	0.66	0.40	0.11	<b>U</b>
95-47-6	o-Xylene	<b>0.49</b>	0.66	0.21	0.095	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.13</b>	0.58	0.19	0.084	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.47</b>	0.57	0.19	0.081	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.23	0.72	0.23	0.094	<b>U</b>
91-20-3	Naphthalene	<b>0.24</b>	0.53	0.32	0.13	<b>J</b>
1330-20-7	Xylenes, Total	<b>1.8</b>	1.2	0.42	0.17	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00894

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.37 Final Pressure (psig): 7.50

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.70</b>	1.4	0.84	0.34	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.59</b>	0.47	0.29	0.079	
74-87-3	Chloromethane	0.70	1.1	0.70	0.19	<b>U</b>
75-01-4	Vinyl Chloride	0.30	0.93	0.30	0.10	<b>U</b>
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	<b>U</b>
75-00-3	Chloroethane	0.55	0.89	0.55	0.11	<b>U</b>
64-17-5	Ethanol	<b>3.7</b>	13	2.0	0.88	<b>J</b>
67-64-1	Acetone	<b>7.2</b>	9.9	5.1	2.3	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.20</b>	0.41	0.26	0.065	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>1.1</b>	1.8	1.2	0.40	<b>J</b>
75-09-2	Methylene Chloride	0.41	0.67	0.41	0.19	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.066</b>	0.31	0.10	0.045	<b>J</b>
75-15-0	Carbon Disulfide	<b>3.9</b>	1.4	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.087	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.9</b>	1.5	0.49	0.17	
141-78-6	Ethyl Acetate	0.81	1.2	0.81	0.35	<b>U, L</b>
110-54-3	n-Hexane	0.41	0.66	0.41	0.14	<b>U</b>
67-66-3	Chloroform	<b>77</b>	0.49	0.16	0.065	
109-99-9	Tetrahydrofuran (THF)	0.26	1.5	0.26	0.10	<b>U</b>
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	<b>U</b>
71-43-2	Benzene	<b>0.17</b>	0.73	0.24	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>1.5</b>	0.36	0.12	0.053	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV122-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-003

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00894

Initial Pressure (psig): -2.37 Final Pressure (psig): 7.50

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.44	1.3	0.44	0.20	U
75-27-4	Bromodichloromethane	<b>7.7</b>	0.35	0.11	0.052	
79-01-6	Trichloroethene	<b>0.24</b>	0.43	0.14	0.060	J
123-91-1	1,4-Dioxane	0.21	0.65	0.21	0.079	U
142-82-5	n-Heptane	<b>0.14</b>	0.57	0.35	0.093	J
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.080	U
108-88-3	Toluene	<b>0.66</b>	0.62	0.20	0.078	
591-78-6	2-Hexanone	<b>0.37</b>	1.1	0.19	0.073	J
124-48-1	Dibromochloromethane	<b>0.19</b>	0.27	0.090	0.037	J
106-93-4	1,2-Dibromoethane	0.10	0.30	0.10	0.036	U
127-18-4	Tetrachloroethene	<b>0.59</b>	0.35	0.11	0.046	
100-41-4	Ethylbenzene	<b>0.12</b>	0.54	0.18	0.078	J
179601-23-1	m,p-Xylenes	<b>0.48</b>	1.0	0.35	0.15	J
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.091	U
95-47-6	o-Xylene	<b>0.17</b>	0.55	0.18	0.080	J
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.071	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.17</b>	0.48	0.16	0.068	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.61	0.19	0.079	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	<b>0.65</b>	1.0	0.35	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00973

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 7.20

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.83	1.4	0.83	0.34	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.5	0.47	0.29	0.079	
74-87-3	Chloromethane	0.69	1.1	0.69	0.19	U
75-01-4	Vinyl Chloride	0.30	0.93	0.30	0.10	U
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	U
75-00-3	Chloroethane	0.54	0.88	0.54	0.11	U
64-17-5	Ethanol	2.0	13	2.0	0.88	U
67-64-1	Acetone	2.9	9.8	5.1	2.3	J
75-69-4	Trichlorofluoromethane	0.13	0.41	0.25	0.065	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.40	U
75-09-2	Methylene Chloride	0.41	0.67	0.41	0.19	U
76-13-1	Trichlorotrifluoroethane	0.074	0.31	0.099	0.044	J
75-15-0	Carbon Disulfide	1.6	1.4	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.086	U
78-93-3	2-Butanone (MEK)	0.84	1.5	0.49	0.17	J
141-78-6	Ethyl Acetate	0.81	1.2	0.81	0.35	J, L
110-54-3	n-Hexane	0.18	0.66	0.41	0.14	J
67-66-3	Chloroform	4.8	0.49	0.16	0.065	
109-99-9	Tetrahydrofuran (THF)	14	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.065	U
71-43-2	Benzene	0.19	0.73	0.24	0.11	J
56-23-5	Carbon Tetrachloride	2.1	0.36	0.12	0.053	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-004

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00973

Initial Pressure (psig): -2.46 Final Pressure (psig): 7.20

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.44	1.3	0.44	0.20	U
75-27-4	Bromodichloromethane	<b>0.32</b>	0.35	0.11	0.051	J
79-01-6	Trichloroethene	0.14	0.42	0.14	0.060	U
123-91-1	1,4-Dioxane	0.21	0.65	0.21	0.078	U
142-82-5	n-Heptane	<b>0.22</b>	0.57	0.35	0.093	J
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.080	U
108-88-3	Toluene	<b>0.79</b>	0.62	0.20	0.077	J
591-78-6	2-Hexanone	0.19	1.1	0.19	0.072	U
124-48-1	Dibromochloromethane	0.089	0.27	0.089	0.037	U
106-93-4	1,2-Dibromoethane	0.099	0.30	0.099	0.036	U
127-18-4	Tetrachloroethene	<b>0.27</b>	0.34	0.11	0.046	J
100-41-4	Ethylbenzene	<b>0.12</b>	0.54	0.18	0.077	J
179601-23-1	m,p-Xylenes	<b>0.50</b>	1.0	0.35	0.14	J
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.090	U
95-47-6	o-Xylene	<b>0.16</b>	0.55	0.18	0.079	J
108-67-8	1,3,5-Trimethylbenzene	0.15	0.48	0.15	0.070	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.13</b>	0.47	0.15	0.067	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.60	0.19	0.078	U
91-20-3	Naphthalene	0.26	0.44	0.26	0.11	U
1330-20-7	Xylenes, Total	<b>0.66</b>	1.0	0.35	0.14	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00536

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.25 Final Pressure (psig): 7.70

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.53</b>	1.4	0.84	0.34	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>5.5</b>	0.47	0.29	0.079	
74-87-3	Chloromethane	<b>1.0</b>	1.1	0.70	0.19	<b>J</b>
75-01-4	Vinyl Chloride	0.30	0.93	0.30	0.10	<b>U</b>
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	<b>U</b>
75-00-3	Chloroethane	<b>0.31</b>	0.89	0.55	0.11	<b>J</b>
64-17-5	Ethanol	<b>3.7</b>	13	2.0	0.88	<b>J</b>
67-64-1	Acetone	<b>20</b>	9.9	5.1	2.3	
75-69-4	Trichlorofluoromethane	<b>0.35</b>	0.41	0.26	0.065	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.8	1.2	0.40	<b>U</b>
75-09-2	Methylene Chloride	0.41	0.67	0.41	0.19	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.16</b>	0.31	0.10	0.045	<b>J</b>
75-15-0	Carbon Disulfide	<b>2.4</b>	1.4	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.087	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>4.7</b>	1.5	0.49	0.17	
141-78-6	Ethyl Acetate	0.81	1.2	0.81	0.35	<b>U, L</b>
110-54-3	n-Hexane	0.41	0.66	0.41	0.14	<b>U</b>
67-66-3	Chloroform	<b>0.15</b>	0.49	0.16	0.065	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>1.3</b>	1.5	0.26	0.10	<b>J</b>
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	<b>U</b>
71-43-2	Benzene	<b>0.16</b>	0.73	0.24	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.69</b>	0.36	0.12	0.053	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV122-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-005

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00536

Initial Pressure (psig): -2.25 Final Pressure (psig): 7.70

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.44	1.3	0.44	0.20	U
75-27-4	Bromodichloromethane	0.11	0.35	0.11	0.052	U
79-01-6	Trichloroethene	0.14	0.43	0.14	0.060	U
123-91-1	1,4-Dioxane	<b>0.15</b>	0.65	0.21	0.079	J
142-82-5	n-Heptane	0.35	0.57	0.35	0.093	U
108-10-1	4-Methyl-2-pentanone	<b>0.19</b>	1.1	0.19	0.080	J
108-88-3	Toluene	<b>0.48</b>	0.62	0.20	0.078	J
591-78-6	2-Hexanone	<b>0.66</b>	1.1	0.19	0.073	J
124-48-1	Dibromochloromethane	0.090	0.27	0.090	0.037	U
106-93-4	1,2-Dibromoethane	0.10	0.30	0.10	0.036	U
127-18-4	Tetrachloroethene	0.11	0.35	0.11	0.046	U
100-41-4	Ethylbenzene	<b>0.090</b>	0.54	0.18	0.078	J
179601-23-1	m,p-Xylenes	<b>0.41</b>	1.0	0.35	0.15	J
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.091	U
95-47-6	o-Xylene	<b>0.14</b>	0.55	0.18	0.080	J
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.071	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.16</b>	0.48	0.16	0.068	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.61	0.19	0.079	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	<b>0.55</b>	1.0	0.35	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00782

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.24 Final Pressure (psig): 7.15

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.81	1.3	0.81	0.33	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>24</b>	0.46	0.28	0.077	
74-87-3	Chloromethane	0.68	1.1	0.68	0.18	U
75-01-4	Vinyl Chloride	0.29	0.91	0.29	0.098	U
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	U
75-00-3	Chloroethane	0.53	0.86	0.53	0.11	U
64-17-5	Ethanol	<b>1.9</b>	12	1.9	0.86	J
67-64-1	Acetone	<b>4.1</b>	9.6	5.0	2.2	J
75-69-4	Trichlorofluoromethane	<b>2.2</b>	0.40	0.25	0.063	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	U
75-09-2	Methylene Chloride	0.40	0.66	0.40	0.19	U
76-13-1	Trichlorotrifluoroethane	<b>0.45</b>	0.30	0.097	0.043	
75-15-0	Carbon Disulfide	<b>3.0</b>	1.4	0.76	0.22	
75-34-3	1,1-Dichloroethane	0.36	0.58	0.36	0.084	U
78-93-3	2-Butanone (MEK)	<b>0.75</b>	1.5	0.47	0.16	J
141-78-6	Ethyl Acetate	<b>0.86</b>	1.2	0.79	0.34	J, L
110-54-3	n-Hexane	<b>0.16</b>	0.65	0.40	0.14	J
67-66-3	Chloroform	<b>0.12</b>	0.48	0.15	0.064	J
109-99-9	Tetrahydrofuran (THF)	0.25	1.5	0.25	0.099	U
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.064	U
71-43-2	Benzene	<b>0.54</b>	0.71	0.23	0.11	J
56-23-5	Carbon Tetrachloride	<b>0.080</b>	0.35	0.12	0.051	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-006

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00782

Initial Pressure (psig): -2.24 Final Pressure (psig): 7.15

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.43	1.3	0.43	0.19	U
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.050	U
79-01-6	Trichloroethene	<b>0.85</b>	0.42	0.14	0.059	
123-91-1	1,4-Dioxane	0.21	0.63	0.21	0.077	U
142-82-5	n-Heptane	<b>0.18</b>	0.56	0.34	0.091	J
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.078	U
108-88-3	Toluene	<b>2.9</b>	0.60	0.20	0.075	
591-78-6	2-Hexanone	<b>0.18</b>	1.1	0.18	0.071	J
124-48-1	Dibromochloromethane	0.087	0.27	0.087	0.036	U
106-93-4	1,2-Dibromoethane	0.097	0.30	0.097	0.035	U
127-18-4	Tetrachloroethene	<b>0.12</b>	0.34	0.11	0.045	J
100-41-4	Ethylbenzene	<b>0.28</b>	0.52	0.17	0.076	J
179601-23-1	m,p-Xylenes	<b>0.94</b>	1.0	0.34	0.14	J
75-25-2	Bromoform	0.14	0.22	0.14	0.047	U
100-42-5	Styrene	0.33	0.53	0.33	0.088	U
95-47-6	o-Xylene	<b>0.28</b>	0.53	0.17	0.078	J
108-67-8	1,3,5-Trimethylbenzene	0.15	0.47	0.15	0.069	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.21</b>	0.46	0.15	0.066	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.59	0.19	0.077	U
91-20-3	Naphthalene	0.26	0.43	0.26	0.11	U
1330-20-7	Xylenes, Total	<b>1.2</b>	1.0	0.34	0.14	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00446

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	5.0	19	12	4.8	J
75-71-8	Dichlorodifluoromethane (CFC 12)	10	6.7	4.1	1.1	
74-87-3	Chloromethane	22	16	9.9	2.7	
75-01-4	Vinyl Chloride	3.2	13	4.2	1.4	J
106-99-0	1,3-Butadiene	9.2	15	9.2	2.5	U
75-00-3	Chloroethane	7.7	13	7.7	1.6	U
64-17-5	Ethanol	28	180	28	13	U
67-64-1	Acetone	72	140	72	32	U
75-69-4	Trichlorofluoromethane	3.6	5.8	3.6	0.92	U
67-63-0	2-Propanol (Isopropyl Alcohol)	16	26	16	5.7	U
75-09-2	Methylene Chloride	5.9	9.5	5.9	2.8	U
76-13-1	Trichlorotrifluoroethane	1.4	4.4	1.4	0.63	U
75-15-0	Carbon Disulfide	68	20	11	3.3	
75-34-3	1,1-Dichloroethane	5.2	8.5	5.2	1.2	U
78-93-3	2-Butanone (MEK)	11	22	6.9	2.4	J
141-78-6	Ethyl Acetate	11	18	11	4.9	U
110-54-3	n-Hexane	8.7	9.4	5.8	2.0	J
67-66-3	Chloroform	2.2	6.9	2.2	0.93	U
109-99-9	Tetrahydrofuran (THF)	46	22	3.7	1.4	
107-06-2	1,2-Dichloroethane	2.7	8.2	2.7	0.93	U
71-43-2	Benzene	46	10	3.4	1.5	
56-23-5	Carbon Tetrachloride	1.7	5.2	1.7	0.75	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00446

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	15	19	6.3	2.8	J
75-27-4	Bromodichloromethane	1.6	4.9	1.6	0.73	U
79-01-6	Trichloroethene	2.0	6.0	2.0	0.85	U
123-91-1	1,4-Dioxane	3.0	9.2	3.0	1.1	U
142-82-5	n-Heptane	5.0	8.1	5.0	1.3	U
108-10-1	4-Methyl-2-pentanone	2.6	16	2.6	1.1	U
108-88-3	Toluene	140	8.8	2.9	1.1	U
591-78-6	2-Hexanone	2.6	16	2.6	1.0	U
124-48-1	Dibromochloromethane	1.3	3.9	1.3	0.52	U
106-93-4	1,2-Dibromoethane	1.4	4.3	1.4	0.51	U
127-18-4	Tetrachloroethene	1.6	4.9	1.6	0.65	U
100-41-4	Ethylbenzene	5.9	7.6	2.5	1.1	J
179601-23-1	m,p-Xylenes	9.8	15	5.0	2.1	J
75-25-2	Bromoform	2.0	3.3	2.0	0.68	U
100-42-5	Styrene	4.8	7.8	4.8	1.3	U
95-47-6	o-Xylene	3.5	7.8	2.5	1.1	J
108-67-8	1,3,5-Trimethylbenzene	2.2	6.9	2.2	1.0	U
95-63-6	1,2,4-Trimethylbenzene	2.2	6.7	2.2	0.96	U
120-82-1	1,2,4-Trichlorobenzene	2.7	8.6	2.7	1.1	U
91-20-3	Naphthalene	3.8	6.3	3.8	1.6	U
1330-20-7	Xylenes, Total	13	15	5.0	2.1	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV123-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00015

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 7.30

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	4.0	1.4	0.84	0.34	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.47	0.48	0.29	0.080	J
74-87-3	Chloromethane	0.70	1.1	0.70	0.19	U
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	U
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	U
75-00-3	Chloroethane	0.55	0.89	0.55	0.11	U
64-17-5	Ethanol	2.4	13	2.0	0.89	J
67-64-1	Acetone	10	9.9	5.1	2.3	
75-69-4	Trichlorofluoromethane	0.18	0.41	0.26	0.065	J
67-63-0	2-Propanol (Isopropyl Alcohol)	0.56	1.8	1.2	0.41	J
75-09-2	Methylene Chloride	0.26	0.68	0.42	0.20	J
76-13-1	Trichlorotrifluoroethane	0.058	0.31	0.10	0.045	J
75-15-0	Carbon Disulfide	1.9	1.5	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.087	U
78-93-3	2-Butanone (MEK)	2.3	1.5	0.49	0.17	
141-78-6	Ethyl Acetate	0.82	1.3	0.82	0.35	U
110-54-3	n-Hexane	0.41	0.67	0.41	0.14	U
67-66-3	Chloroform	56	0.49	0.16	0.066	
109-99-9	Tetrahydrofuran (THF)	0.88	1.5	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	U
71-43-2	Benzene	0.24	0.74	0.24	0.11	U
56-23-5	Carbon Tetrachloride	0.41	0.37	0.12	0.053	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV123-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-008

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00015

Initial Pressure (psig): -2.54 Final Pressure (psig): 7.30

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	17	0.35	0.11	0.052	
79-01-6	Trichloroethene	0.13	0.43	0.14	0.061	J
123-91-1	1,4-Dioxane	0.21	0.65	0.21	0.079	U
142-82-5	n-Heptane	0.35	0.57	0.35	0.094	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.081	U
108-88-3	Toluene	0.24	0.62	0.20	0.078	J
591-78-6	2-Hexanone	0.39	1.1	0.19	0.073	J
124-48-1	Dibromochloromethane	1.5	0.28	0.090	0.037	
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	0.34	0.35	0.11	0.046	J
100-41-4	Ethylbenzene	0.18	0.54	0.18	0.078	U
179601-23-1	m,p-Xylenes	0.17	1.0	0.35	0.15	J
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.091	U
95-47-6	o-Xylene	0.18	0.55	0.18	0.080	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.071	U
95-63-6	1,2,4-Trimethylbenzene	0.074	0.48	0.16	0.068	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.079	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	0.17	1.0	0.35	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01068

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4 - 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.79 Final Pressure (psig): 7.90

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.48	1.4	0.88	0.36	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	0.50	0.31	0.084	
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	0.99	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.94	0.58	0.12	U
64-17-5	Ethanol	1.5	13	2.1	0.93	J
67-64-1	Acetone	5.6	10	5.4	2.4	J
75-69-4	Trichlorofluoromethane	0.21	0.43	0.27	0.068	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.43	U
75-09-2	Methylene Chloride	4.8	0.71	0.44	0.21	
76-13-1	Trichlorotrifluoroethane	0.11	0.33	0.11	0.047	J
75-15-0	Carbon Disulfide	1.0	1.5	0.82	0.24	J
75-34-3	1,1-Dichloroethane	0.39	0.63	0.39	0.092	U
78-93-3	2-Butanone (MEK)	1.0	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	220	5.2	1.7	0.69	D
109-99-9	Tetrahydrofuran (THF)	0.18	1.6	0.27	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.069	U
71-43-2	Benzene	0.14	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	2.8	0.39	0.13	0.056	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01068

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4 - 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.79 Final Pressure (psig): 7.90

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	<b>72</b>	3.7	1.2	0.55	<b>D</b>
79-01-6	Trichloroethene	<b>1.0</b>	0.45	0.15	0.064	
123-91-1	1,4-Dioxane	0.22	0.69	0.22	0.083	U
142-82-5	n-Heptane	<b>0.11</b>	0.60	0.37	0.099	<b>J</b>
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	U
108-88-3	Toluene	<b>0.49</b>	0.66	0.21	0.082	<b>J</b>
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	U
124-48-1	Dibromochloromethane	<b>9.8</b>	0.29	0.095	0.039	
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.038	U
127-18-4	Tetrachloroethene	<b>1.3</b>	0.36	0.12	0.048	
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	<b>0.21</b>	1.1	0.37	0.15	<b>J</b>
75-25-2	Bromoform	<b>0.87</b>	0.24	0.15	0.051	
100-42-5	Styrene	0.36	0.58	0.36	0.096	U
95-47-6	o-Xylene	0.19	0.58	0.19	0.084	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.50	0.16	0.072	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	<b>0.21</b>	1.1	0.37	0.15	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01359

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.01 Final Pressure (psig): 7.57

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.89	1.4	0.89	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>8.3</b>	0.50	0.31	0.084	
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	0.99	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.94	0.58	0.12	U
64-17-5	Ethanol	2.1	13	2.1	0.94	U
67-64-1	Acetone	<b>2.9</b>	10	5.4	2.4	J
75-69-4	Trichlorofluoromethane	<b>0.56</b>	0.43	0.27	0.069	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	<b>0.27</b>	0.33	0.11	0.047	J
75-15-0	Carbon Disulfide	<b>0.55</b>	1.5	0.83	0.25	J
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.092	U
78-93-3	2-Butanone (MEK)	<b>0.34</b>	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	<b>6.0</b>	0.52	0.17	0.069	
109-99-9	Tetrahydrofuran (THF)	0.28	1.6	0.28	0.11	U
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.070	U
71-43-2	Benzene	0.25	0.78	0.25	0.12	U
56-23-5	Carbon Tetrachloride	<b>2.7</b>	0.39	0.13	0.056	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV123-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-010

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01359

Initial Pressure (psig): -3.01 Final Pressure (psig): 7.57

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	<b>0.96</b>	0.37	0.12	0.055	
79-01-6	Trichloroethene	0.15	0.45	0.15	0.064	U
123-91-1	1,4-Dioxane	0.23	0.69	0.23	0.084	U
142-82-5	n-Heptane	0.37	0.61	0.37	0.099	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	U
108-88-3	Toluene	<b>0.15</b>	0.66	0.22	0.082	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	U
124-48-1	Dibromochloromethane	0.095	0.29	0.095	0.039	U
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.40</b>	0.37	0.12	0.049	
100-41-4	Ethylbenzene	<b>0.54</b>	0.57	0.19	0.082	J
179601-23-1	m,p-Xylenes	0.37	1.1	0.37	0.15	U
75-25-2	Bromoform	0.15	0.24	0.15	0.051	U
100-42-5	Styrene	0.36	0.58	0.36	0.096	U
95-47-6	o-Xylene	0.19	0.58	0.19	0.085	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.51	0.17	0.075	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.51	0.17	0.072	U
120-82-1	1,2,4-Trichlorobenzene	0.21	0.64	0.21	0.084	U
91-20-3	Naphthalene	<b>0.49</b>	0.47	0.28	0.12	
1330-20-7	Xylenes, Total	0.37	1.1	0.37	0.15	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01098

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.81 Final Pressure (psig): 8.11

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.89	1.5	0.89	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	12	0.50	0.31	0.084	
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.95	0.58	0.12	U
64-17-5	Ethanol	2.4	14	2.1	0.94	J
67-64-1	Acetone	4.0	11	5.5	2.4	J
75-69-4	Trichlorofluoromethane	0.85	0.44	0.27	0.069	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	0.35	0.33	0.11	0.048	
75-15-0	Carbon Disulfide	0.42	1.5	0.83	0.25	J
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	U
78-93-3	2-Butanone (MEK)	0.51	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	14	1.3	0.87	0.37	
110-54-3	n-Hexane	0.44	0.71	0.44	0.15	U
67-66-3	Chloroform	1.4	0.52	0.17	0.070	
109-99-9	Tetrahydrofuran (THF)	0.26	1.6	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	U
71-43-2	Benzene	0.26	0.78	0.26	0.12	U
56-23-5	Carbon Tetrachloride	0.82	0.39	0.13	0.056	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01098

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.81 Final Pressure (psig): 8.11

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	<b>0.43</b>	0.37	0.12	0.055	
79-01-6	Trichloroethene	0.15	0.46	0.15	0.064	U
123-91-1	1,4-Dioxane	0.23	0.69	0.23	0.084	U
142-82-5	n-Heptane	0.37	0.61	0.37	0.10	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	<b>0.44</b>	0.66	0.22	0.083	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	U
124-48-1	Dibromochloromethane	<b>0.055</b>	0.29	0.096	0.039	J
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	U
127-18-4	Tetrachloroethene	0.12	0.37	0.12	0.049	U
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.083	U
179601-23-1	m,p-Xylenes	0.38	1.1	0.38	0.15	U
75-25-2	Bromoform	0.15	0.25	0.15	0.051	U
100-42-5	Styrene	0.36	0.59	0.36	0.097	U
95-47-6	o-Xylene	0.19	0.59	0.19	0.085	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.52	0.17	0.075	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.51	0.17	0.072	U
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.084	U
91-20-3	Naphthalene	0.28	0.48	0.28	0.12	U
1330-20-7	Xylenes, Total	0.38	1.1	0.38	0.15	U

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00720

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 7.20

Container Dilution Factor: 1.98

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.0	1.5	0.92	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	32	0.52	0.32	0.087	
74-87-3	Chloromethane	0.51	1.2	0.77	0.21	J
75-01-4	Vinyl Chloride	0.23	1.0	0.33	0.11	J
106-99-0	1,3-Butadiene	0.72	1.2	0.72	0.20	U
75-00-3	Chloroethane	0.17	0.98	0.60	0.12	J
64-17-5	Ethanol	1.8	14	2.2	0.97	J
67-64-1	Acetone	14	11	5.6	2.5	
75-69-4	Trichlorofluoromethane	3.1	0.45	0.28	0.071	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.0	1.3	0.44	U
75-09-2	Methylene Chloride	0.46	0.74	0.46	0.21	U
76-13-1	Trichlorotrifluoroethane	0.68	0.34	0.11	0.049	
75-15-0	Carbon Disulfide	34	1.6	0.86	0.25	
75-34-3	1,1-Dichloroethane	0.40	0.66	0.40	0.095	U
78-93-3	2-Butanone (MEK)	3.7	1.7	0.54	0.18	
141-78-6	Ethyl Acetate	0.89	1.4	0.89	0.38	U
110-54-3	n-Hexane	2.8	0.73	0.45	0.15	
67-66-3	Chloroform	0.72	0.54	0.17	0.072	
109-99-9	Tetrahydrofuran (THF)	8.4	1.7	0.29	0.11	
107-06-2	1,2-Dichloroethane	0.21	0.64	0.21	0.072	U
71-43-2	Benzene	3.6	0.81	0.26	0.12	
56-23-5	Carbon Tetrachloride	0.24	0.40	0.13	0.058	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00720

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 7.20

Container Dilution Factor: 1.98

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.72	1.4	0.49	0.22	J
75-27-4	Bromodichloromethane	0.11	0.38	0.13	0.057	J
79-01-6	Trichloroethene	0.13	0.47	0.16	0.066	J
123-91-1	1,4-Dioxane	0.23	0.71	0.23	0.087	U
142-82-5	n-Heptane	3.5	0.63	0.39	0.10	
108-10-1	4-Methyl-2-pentanone	0.21	1.2	0.21	0.088	U
108-88-3	Toluene	9.6	0.68	0.22	0.085	
591-78-6	2-Hexanone	0.21	1.2	0.21	0.080	U
124-48-1	Dibromochloromethane	0.099	0.30	0.099	0.041	U
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.040	U
127-18-4	Tetrachloroethene	0.10	0.38	0.12	0.050	J
100-41-4	Ethylbenzene	1.3	0.59	0.19	0.086	
179601-23-1	m,p-Xylenes	5.7	1.1	0.39	0.16	
75-25-2	Bromoform	0.15	0.25	0.15	0.053	U
100-42-5	Styrene	0.37	0.60	0.37	0.10	U
95-47-6	o-Xylene	1.6	0.60	0.19	0.088	
108-67-8	1,3,5-Trimethylbenzene	0.37	0.53	0.17	0.078	J
95-63-6	1,2,4-Trimethylbenzene	1.2	0.52	0.17	0.075	
120-82-1	1,2,4-Trichlorobenzene	0.21	0.67	0.21	0.087	U
91-20-3	Naphthalene	0.17	0.49	0.29	0.12	J
1330-20-7	Xylenes, Total	7.3	1.1	0.39	0.16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00744

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

Initial Pressure (psig): -3.10 Final Pressure (psig): 7.40

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	4.0	4.6	2.8	1.2	J
75-71-8	Dichlorodifluoromethane (CFC 12)	29	1.6	0.99	0.27	
74-87-3	Chloromethane	18	3.8	2.4	0.64	
75-01-4	Vinyl Chloride	3.2	3.2	1.0	0.34	
106-99-0	1,3-Butadiene	2.2	3.6	2.2	0.61	U
75-00-3	Chloroethane	2.4	3.0	1.9	0.38	J
64-17-5	Ethanol	6.7	43	6.7	3.0	U
67-64-1	Acetone	17	33	17	7.7	U
75-69-4	Trichlorofluoromethane	2.8	1.4	0.87	0.22	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.0	6.2	3.9	1.4	J
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.66	U
76-13-1	Trichlorotrifluoroethane	0.52	1.1	0.34	0.15	J
75-15-0	Carbon Disulfide	83	4.9	2.7	0.79	
75-34-3	1,1-Dichloroethane	1.3	2.0	1.2	0.29	J
78-93-3	2-Butanone (MEK)	16	5.2	1.7	0.57	
141-78-6	Ethyl Acetate	2.8	4.2	2.8	1.2	U
110-54-3	n-Hexane	5.8	2.3	1.4	0.48	
67-66-3	Chloroform	0.26	1.7	0.53	0.22	J
109-99-9	Tetrahydrofuran (THF)	30	5.2	0.88	0.35	
107-06-2	1,2-Dichloroethane	0.49	2.0	0.64	0.22	J
71-43-2	Benzene	44	2.5	0.81	0.37	
56-23-5	Carbon Tetrachloride	0.41	1.2	0.41	0.18	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00744

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

Initial Pressure (psig): -3.10 Final Pressure (psig): 7.40

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>19</b>	4.4	1.5	0.67	
75-27-4	Bromodichloromethane	0.39	1.2	0.39	0.18	<b>U</b>
79-01-6	Trichloroethene	<b>2.5</b>	1.5	0.48	0.20	
123-91-1	1,4-Dioxane	0.72	2.2	0.72	0.27	<b>U</b>
142-82-5	n-Heptane	<b>4.9</b>	1.9	1.2	0.32	
108-10-1	4-Methyl-2-pentanone	0.63	3.7	0.63	0.27	<b>U</b>
108-88-3	Toluene	<b>130</b>	2.1	0.69	0.26	
591-78-6	2-Hexanone	0.63	3.7	0.63	0.25	<b>U</b>
124-48-1	Dibromochloromethane	0.31	0.93	0.31	0.13	<b>U</b>
106-93-4	1,2-Dibromoethane	0.34	1.0	0.34	0.12	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.18</b>	1.2	0.38	0.16	<b>J</b>
100-41-4	Ethylbenzene	<b>7.2</b>	1.8	0.60	0.26	
179601-23-1	m,p-Xylenes	<b>14</b>	3.5	1.2	0.49	
75-25-2	Bromoform	0.47	0.78	0.47	0.16	<b>U</b>
100-42-5	Styrene	1.1	1.9	1.1	0.31	<b>U</b>
95-47-6	o-Xylene	<b>4.4</b>	1.9	0.60	0.27	
108-67-8	1,3,5-Trimethylbenzene	<b>0.59</b>	1.6	0.53	0.24	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>1.6</b>	1.6	0.53	0.23	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.66	2.1	0.66	0.27	<b>U</b>
91-20-3	Naphthalene	0.90	1.5	0.90	0.38	<b>U</b>
1330-20-7	Xylenes, Total	<b>19</b>	3.5	1.2	0.49	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00183

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -3.41 Final Pressure (psig): 7.29

Container Dilution Factor: 1.95

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.77</b>	1.5	0.91	0.37	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.52</b>	0.51	0.32	0.086	
74-87-3	Chloromethane	0.76	1.2	0.76	0.20	<b>U</b>
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.71	1.1	0.71	0.19	<b>U</b>
75-00-3	Chloroethane	0.59	0.96	0.59	0.12	<b>U</b>
64-17-5	Ethanol	<b>6.8</b>	14	2.1	0.96	<b>J</b>
67-64-1	Acetone	<b>6.4</b>	11	5.5	2.5	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.22</b>	0.44	0.28	0.070	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.97</b>	2.0	1.2	0.44	<b>J</b>
75-09-2	Methylene Chloride	0.45	0.73	0.45	0.21	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>1.3</b>	0.34	0.11	0.048	
75-15-0	Carbon Disulfide	<b>27</b>	1.6	0.85	0.25	
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.3</b>	1.7	0.53	0.18	<b>J</b>
141-78-6	Ethyl Acetate	0.88	1.4	0.88	0.38	<b>U</b>
110-54-3	n-Hexane	0.44	0.72	0.44	0.15	<b>U</b>
67-66-3	Chloroform	<b>2.2</b>	0.53	0.17	0.071	
109-99-9	Tetrahydrofuran (THF)	0.28	1.7	0.28	0.11	<b>U</b>
107-06-2	1,2-Dichloroethane	0.20	0.63	0.20	0.071	<b>U</b>
71-43-2	Benzene	<b>0.26</b>	0.79	0.26	0.12	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.78</b>	0.40	0.13	0.057	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-014

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.025 Liter(s)

Container ID: 1SS00183

Initial Pressure (psig): -3.41 Final Pressure (psig): 7.29

Container Dilution Factor: 1.95

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.48	1.4	0.48	0.21	U
75-27-4	Bromodichloromethane	0.12	0.38	0.12	0.056	U
79-01-6	Trichloroethene	<b>770</b>	7.4	2.5	1.0	D
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.085	U
142-82-5	n-Heptane	0.38	0.62	0.38	0.10	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.087	U
108-88-3	Toluene	<b>0.46</b>	0.67	0.22	0.084	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.079	U
124-48-1	Dibromochloromethane	0.097	0.30	0.097	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>2.9</b>	0.37	0.12	0.050	
100-41-4	Ethylbenzene	<b>0.098</b>	0.58	0.19	0.084	J
179601-23-1	m,p-Xylenes	<b>1.5</b>	1.1	0.38	0.16	
75-25-2	Bromoform	0.15	0.25	0.15	0.052	U
100-42-5	Styrene	<b>0.10</b>	0.60	0.37	0.099	J
95-47-6	o-Xylene	<b>1.3</b>	0.60	0.19	0.086	
108-67-8	1,3,5-Trimethylbenzene	<b>1.1</b>	0.53	0.17	0.076	
95-63-6	1,2,4-Trimethylbenzene	<b>2.2</b>	0.52	0.17	0.073	
120-82-1	1,2,4-Trichlorobenzene	0.21	0.66	0.21	0.085	U
91-20-3	Naphthalene	<b>0.14</b>	0.48	0.29	0.12	J
1330-20-7	Xylenes, Total	<b>2.8</b>	1.1	0.38	0.16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00136

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -4.31 Final Pressure (psig): 8.00

Container Dilution Factor: 2.18

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.56</b>	1.6	1.0	0.41	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.40</b>	0.57	0.35	0.096	<b>J</b>
74-87-3	Chloromethane	0.84	1.4	0.84	0.23	<b>U</b>
75-01-4	Vinyl Chloride	0.36	1.1	0.36	0.12	<b>U</b>
106-99-0	1,3-Butadiene	0.79	1.3	0.79	0.22	<b>U</b>
75-00-3	Chloroethane	0.66	1.1	0.66	0.14	<b>U</b>
64-17-5	Ethanol	<b>5.9</b>	15	2.4	1.1	<b>J</b>
67-64-1	Acetone	<b>6.4</b>	12	6.2	2.8	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.16</b>	0.49	0.31	0.079	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.59</b>	2.2	1.4	0.49	<b>J</b>
75-09-2	Methylene Chloride	<b>0.25</b>	0.82	0.50	0.24	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>1.2</b>	0.38	0.12	0.054	
75-15-0	Carbon Disulfide	<b>1.7</b>	1.8	0.95	0.28	<b>J</b>
75-34-3	1,1-Dichloroethane	0.44	0.73	0.44	0.11	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>0.94</b>	1.8	0.59	0.20	<b>J</b>
141-78-6	Ethyl Acetate	0.98	1.5	0.98	0.42	<b>U</b>
110-54-3	n-Hexane	0.49	0.80	0.49	0.17	<b>U</b>
67-66-3	Chloroform	<b>2.1</b>	0.59	0.19	0.079	
109-99-9	Tetrahydrofuran (THF)	<b>0.49</b>	1.8	0.31	0.12	<b>J</b>
107-06-2	1,2-Dichloroethane	0.23	0.70	0.23	0.079	<b>U</b>
71-43-2	Benzene	<b>1.4</b>	0.89	0.29	0.13	
56-23-5	Carbon Tetrachloride	<b>0.78</b>	0.44	0.15	0.064	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV132-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-015

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.025 Liter(s)

Container ID: 1SS00136

Initial Pressure (psig): -4.31 Final Pressure (psig): 8.00

Container Dilution Factor: 2.18

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.54	1.6	0.54	0.24	U
75-27-4	Bromodichloromethane	0.14	0.42	0.14	0.063	U
79-01-6	Trichloroethene	<b>730</b>	8.3	2.8	1.2	<b>D</b>
123-91-1	1,4-Dioxane	0.26	0.79	0.26	0.095	U
142-82-5	n-Heptane	0.43	0.69	0.43	0.11	U
108-10-1	4-Methyl-2-pentanone	0.23	1.3	0.23	0.097	U
108-88-3	Toluene	<b>0.29</b>	0.75	0.25	0.094	<b>J</b>
591-78-6	2-Hexanone	0.23	1.3	0.23	0.088	U
124-48-1	Dibromochloromethane	0.11	0.33	0.11	0.045	U
106-93-4	1,2-Dibromoethane	0.12	0.37	0.12	0.044	U
127-18-4	Tetrachloroethene	<b>2.3</b>	0.42	0.14	0.055	
100-41-4	Ethylbenzene	0.21	0.65	0.21	0.094	U
179601-23-1	m,p-Xylenes	<b>0.42</b>	1.3	0.43	0.18	<b>J</b>
75-25-2	Bromoform	0.17	0.28	0.17	0.058	U
100-42-5	Styrene	0.41	0.67	0.41	0.11	U
95-47-6	o-Xylene	<b>0.29</b>	0.67	0.21	0.097	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.20</b>	0.59	0.19	0.085	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.42</b>	0.58	0.19	0.082	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.24	0.73	0.24	0.095	U
91-20-3	Naphthalene	0.32	0.54	0.32	0.14	U
1330-20-7	Xylenes, Total	<b>0.72</b>	1.3	0.43	0.18	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-175-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00546

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

0.0050 Liter(s)

Initial Pressure (psig): -3.38 Final Pressure (psig): 8.48

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3.1	5.0	3.1	1.2	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.76</b>	1.7	1.1	0.29	J
74-87-3	Chloromethane	2.5	4.1	2.5	0.68	U
75-01-4	Vinyl Chloride	1.1	3.4	1.1	0.37	U
106-99-0	1,3-Butadiene	2.4	3.9	2.4	0.65	U
75-00-3	Chloroethane	2.0	3.2	2.0	0.41	U
64-17-5	Ethanol	<b>4.1</b>	46	7.2	3.2	J
67-64-1	Acetone	19	36	19	8.3	U
75-69-4	Trichlorofluoromethane	<b>0.32</b>	1.5	0.93	0.24	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.2	6.7	4.2	1.5	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	<b>3.8</b>	1.1	0.36	0.16	
75-15-0	Carbon Disulfide	<b>2.5</b>	5.3	2.8	0.84	J
75-34-3	1,1-Dichloroethane	1.3	2.2	1.3	0.32	U
78-93-3	2-Butanone (MEK)	1.8	5.6	1.8	0.61	U
141-78-6	Ethyl Acetate	<b>2.2</b>	4.6	3.0	1.3	J
110-54-3	n-Hexane	1.5	2.4	1.5	0.51	U
67-66-3	Chloroform	<b>4.4</b>	1.8	0.57	0.24	
109-99-9	Tetrahydrofuran (THF)	<b>1.6</b>	5.6	0.95	0.37	J
107-06-2	1,2-Dichloroethane	0.69	2.1	0.69	0.24	U
71-43-2	Benzene	0.87	2.7	0.87	0.40	U
56-23-5	Carbon Tetrachloride	<b>3.4</b>	1.3	0.44	0.19	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV132-175-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00546

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

0.0050 Liter(s)

Initial Pressure (psig): -3.38 Final Pressure (psig): 8.48

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.71	U
75-27-4	Bromodichloromethane	0.42	1.3	0.42	0.19	U
79-01-6	Trichloroethene	<b>4,100</b>	39	13	5.5	D
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	1.3	2.1	1.3	0.34	U
108-10-1	4-Methyl-2-pentanone	0.68	4.0	0.68	0.29	U
108-88-3	Toluene	0.74	2.3	0.74	0.28	U
591-78-6	2-Hexanone	0.68	4.0	0.68	0.26	U
124-48-1	Dibromochloromethane	0.33	1.0	0.33	0.13	U
106-93-4	1,2-Dibromoethane	0.36	1.1	0.36	0.13	U
127-18-4	Tetrachloroethene	<b>8.7</b>	1.3	0.41	0.17	
100-41-4	Ethylbenzene	0.64	2.0	0.64	0.28	U
179601-23-1	m,p-Xylenes	1.3	3.8	1.3	0.53	U
75-25-2	Bromoform	0.51	0.84	0.51	0.17	U
100-42-5	Styrene	1.2	2.0	1.2	0.33	U
95-47-6	o-Xylene	<b>0.29</b>	2.0	0.64	0.29	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.26</b>	1.8	0.57	0.26	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.50</b>	1.7	0.57	0.25	J
120-82-1	1,2,4-Trichlorobenzene	0.71	2.2	0.71	0.29	U
91-20-3	Naphthalene	0.97	1.6	0.97	0.41	U
1330-20-7	Xylenes, Total	1.3	3.8	1.3	0.53	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00543

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

0.015 Liter(s)

Initial Pressure (psig): -3.38 Final Pressure (psig): 8.16

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3.0	4.9	3.0	1.2	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.32</b>	1.7	1.0	0.28	J
74-87-3	Chloromethane	2.5	4.1	2.5	0.67	U
75-01-4	Vinyl Chloride	1.1	3.4	1.1	0.36	U
106-99-0	1,3-Butadiene	2.3	3.8	2.3	0.64	U
75-00-3	Chloroethane	2.0	3.2	2.0	0.40	U
64-17-5	Ethanol	<b>3.6</b>	45	7.1	3.2	J
67-64-1	Acetone	18	35	18	8.2	U
75-69-4	Trichlorofluoromethane	0.92	1.5	0.92	0.23	U
67-63-0	2-Propanol (Isopropyl Alcohol)	4.1	6.6	4.1	1.4	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.70	U
76-13-1	Trichlorotrifluoroethane	<b>1.5</b>	1.1	0.36	0.16	
75-15-0	Carbon Disulfide	<b>1.5</b>	5.2	2.8	0.83	J
75-34-3	1,1-Dichloroethane	1.3	2.2	1.3	0.31	U
78-93-3	2-Butanone (MEK)	<b>5.1</b>	5.5	1.8	0.60	J
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	U
110-54-3	n-Hexane	1.5	2.4	1.5	0.50	U
67-66-3	Chloroform	<b>4.5</b>	1.8	0.56	0.24	
109-99-9	Tetrahydrofuran (THF)	<b>150</b>	5.5	0.93	0.37	
107-06-2	1,2-Dichloroethane	0.68	2.1	0.68	0.24	U
71-43-2	Benzene	0.86	2.6	0.86	0.39	U
56-23-5	Carbon Tetrachloride	<b>1.8</b>	1.3	0.44	0.19	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00543

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

0.015 Liter(s)

Initial Pressure (psig): -3.38 Final Pressure (psig): 8.16

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	1.6	4.7	1.6	0.70	U
75-27-4	Bromodichloromethane	0.41	1.3	0.41	0.19	U
79-01-6	Trichloroethene	<b>2,200</b>	13	4.3	1.8	D
123-91-1	1,4-Dioxane	0.76	2.3	0.76	0.28	U
142-82-5	n-Heptane	1.3	2.1	1.3	0.34	U
108-10-1	4-Methyl-2-pentanone	0.67	3.9	0.67	0.29	U
108-88-3	Toluene	<b>0.54</b>	2.2	0.73	0.28	J
591-78-6	2-Hexanone	0.67	3.9	0.67	0.26	U
124-48-1	Dibromochloromethane	0.32	0.99	0.32	0.13	U
106-93-4	1,2-Dibromoethane	0.36	1.1	0.36	0.13	U
127-18-4	Tetrachloroethene	<b>3.3</b>	1.2	0.41	0.16	
100-41-4	Ethylbenzene	0.63	1.9	0.63	0.28	U
179601-23-1	m,p-Xylenes	1.3	3.7	1.3	0.52	U
75-25-2	Bromoform	0.50	0.83	0.50	0.17	U
100-42-5	Styrene	1.2	2.0	1.2	0.33	U
95-47-6	o-Xylene	0.63	2.0	0.63	0.29	U
108-67-8	1,3,5-Trimethylbenzene	0.56	1.7	0.56	0.25	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.28</b>	1.7	0.56	0.24	J
120-82-1	1,2,4-Trichlorobenzene	0.70	2.2	0.70	0.28	U
91-20-3	Naphthalene	0.96	1.6	0.96	0.40	U
1330-20-7	Xylenes, Total	1.3	3.7	1.3	0.52	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00593

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.99 Final Pressure (psig): 7.93

Container Dilution Factor: 2.11

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.71</b>	1.6	0.98	0.40	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	0.34	0.55	0.34	0.093	<b>U</b>
74-87-3	Chloromethane	0.82	1.3	0.82	0.22	<b>U</b>
75-01-4	Vinyl Chloride	0.35	1.1	0.35	0.12	<b>U</b>
106-99-0	1,3-Butadiene	0.76	1.2	0.76	0.21	<b>U</b>
75-00-3	Chloroethane	0.64	1.0	0.64	0.13	<b>U</b>
64-17-5	Ethanol	<b>14</b>	15	2.3	1.0	<b>J</b>
67-64-1	Acetone	6.0	12	6.0	2.7	<b>U</b>
75-69-4	Trichlorofluoromethane	0.30	0.48	0.30	0.076	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.1	1.4	0.47	<b>U</b>
75-09-2	Methylene Chloride	0.49	0.79	0.49	0.23	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.15</b>	0.36	0.12	0.052	<b>J</b>
75-15-0	Carbon Disulfide	<b>2.7</b>	1.7	0.92	0.27	
75-34-3	1,1-Dichloroethane	0.43	0.70	0.43	0.10	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>0.65</b>	1.8	0.57	0.20	<b>J</b>
141-78-6	Ethyl Acetate	0.95	1.5	0.95	0.41	<b>U</b>
110-54-3	n-Hexane	0.48	0.78	0.48	0.16	<b>U</b>
67-66-3	Chloroform	<b>1.8</b>	0.57	0.18	0.077	
109-99-9	Tetrahydrofuran (THF)	<b>2.8</b>	1.8	0.30	0.12	
107-06-2	1,2-Dichloroethane	0.22	0.68	0.22	0.077	<b>U</b>
71-43-2	Benzene	<b>1.8</b>	0.86	0.28	0.13	
56-23-5	Carbon Tetrachloride	<b>0.26</b>	0.43	0.14	0.062	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00593

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.99 Final Pressure (psig): 7.93

Container Dilution Factor: 2.11

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.52	1.5	0.52	0.23	U
75-27-4	Bromodichloromethane	0.13	0.41	0.13	0.061	U
79-01-6	Trichloroethene	<b>160</b>	5.0	1.7	0.71	<b>D</b>
123-91-1	1,4-Dioxane	0.25	0.76	0.25	0.092	U
142-82-5	n-Heptane	0.41	0.67	0.41	0.11	U
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.094	U
108-88-3	Toluene	<b>0.58</b>	0.73	0.24	0.091	<b>J</b>
591-78-6	2-Hexanone	0.22	1.3	0.22	0.085	U
124-48-1	Dibromochloromethane	0.11	0.32	0.11	0.043	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	U
127-18-4	Tetrachloroethene	<b>0.44</b>	0.40	0.13	0.054	
100-41-4	Ethylbenzene	0.21	0.63	0.21	0.091	U
179601-23-1	m,p-Xylenes	<b>0.53</b>	1.2	0.41	0.17	<b>J</b>
75-25-2	Bromoform	0.16	0.27	0.16	0.056	U
100-42-5	Styrene	0.40	0.64	0.40	0.11	U
95-47-6	o-Xylene	<b>0.30</b>	0.64	0.21	0.094	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.22</b>	0.57	0.18	0.083	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.49</b>	0.56	0.18	0.079	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.23	0.71	0.23	0.092	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	<b>0.83</b>	1.2	0.41	0.17	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01037

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.81 Final Pressure (psig): 8.00

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.0	1.4	0.89	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.31	0.50	0.31	0.084	U
74-87-3	Chloromethane	9.0	1.2	0.74	0.20	
75-01-4	Vinyl Chloride	2.5	0.99	0.32	0.11	
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	1.8	0.94	0.58	0.12	
64-17-5	Ethanol	5.6	13	2.1	0.94	J
67-64-1	Acetone	13	10	5.4	2.4	
75-69-4	Trichlorofluoromethane	0.27	0.43	0.27	0.069	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	0.13	0.33	0.11	0.047	J
75-15-0	Carbon Disulfide	12	1.5	0.83	0.25	
75-34-3	1,1-Dichloroethane	0.98	0.64	0.39	0.092	
78-93-3	2-Butanone (MEK)	5.5	1.6	0.52	0.18	
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U
110-54-3	n-Hexane	0.30	0.70	0.43	0.15	J
67-66-3	Chloroform	0.32	0.52	0.17	0.069	J
109-99-9	Tetrahydrofuran (THF)	16	1.6	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.38	0.61	0.20	0.070	J
71-43-2	Benzene	0.63	0.78	0.25	0.12	J
56-23-5	Carbon Tetrachloride	0.17	0.39	0.13	0.056	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01037

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.81 Final Pressure (psig): 8.00

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	<b>180</b>	4.5	1.5	0.64	<b>D</b>
123-91-1	1,4-Dioxane	0.23	0.69	0.23	0.084	U
142-82-5	n-Heptane	<b>0.15</b>	0.61	0.37	0.099	<b>J</b>
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	U
108-88-3	Toluene	<b>3.1</b>	0.66	0.22	0.082	
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	U
124-48-1	Dibromochloromethane	0.095	0.29	0.095	0.039	U
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.34</b>	0.37	0.12	0.049	<b>J</b>
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	<b>0.36</b>	1.1	0.37	0.15	<b>J</b>
75-25-2	Bromoform	0.15	0.24	0.15	0.051	U
100-42-5	Styrene	0.36	0.58	0.36	0.096	U
95-47-6	o-Xylene	<b>0.20</b>	0.58	0.19	0.085	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.19</b>	0.51	0.17	0.075	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.42</b>	0.51	0.17	0.072	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.21	0.64	0.21	0.084	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	<b>0.56</b>	1.1	0.37	0.15	<b>J</b>

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00932

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 7.80

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.86	1.4	0.86	0.35	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.33</b>	0.49	0.30	0.081	J
74-87-3	Chloromethane	0.72	1.2	0.72	0.19	U
75-01-4	Vinyl Chloride	0.31	0.96	0.31	0.10	U
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.18	U
75-00-3	Chloroethane	0.56	0.91	0.56	0.12	U
64-17-5	Ethanol	<b>25</b>	13	2.0	0.91	
67-64-1	Acetone	<b>3.4</b>	10	5.3	2.3	J
75-69-4	Trichlorofluoromethane	<b>0.13</b>	0.42	0.26	0.067	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	0.43	0.69	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	<b>0.058</b>	0.32	0.10	0.046	J
75-15-0	Carbon Disulfide	0.80	1.5	0.80	0.24	U
75-34-3	1,1-Dichloroethane	0.38	0.62	0.38	0.089	U
78-93-3	2-Butanone (MEK)	0.50	1.6	0.50	0.17	U
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	U
110-54-3	n-Hexane	0.42	0.68	0.42	0.14	U
67-66-3	Chloroform	0.16	0.50	0.16	0.067	U
109-99-9	Tetrahydrofuran (THF)	0.27	1.6	0.27	0.11	U
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	0.25	0.75	0.25	0.11	U
56-23-5	Carbon Tetrachloride	0.13	0.38	0.13	0.054	U

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-020

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00932

Initial Pressure (psig): -2.54 Final Pressure (psig): 7.80

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.46	1.3	0.46	0.20	U
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	U
79-01-6	Trichloroethene	<b>1.1</b>	0.44	0.15	0.062	
123-91-1	1,4-Dioxane	0.22	0.67	0.22	0.081	U
142-82-5	n-Heptane	0.36	0.59	0.36	0.096	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.082	U
108-88-3	Toluene	<b>0.11</b>	0.64	0.21	0.080	J
591-78-6	2-Hexanone	0.19	1.1	0.19	0.075	U
124-48-1	Dibromochloromethane	0.092	0.28	0.092	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	0.12	0.35	0.12	0.047	U
100-41-4	Ethylbenzene	0.18	0.55	0.18	0.080	U
179601-23-1	m,p-Xylenes	<b>0.15</b>	1.1	0.36	0.15	J
75-25-2	Bromoform	0.14	0.24	0.14	0.049	U
100-42-5	Styrene	0.35	0.57	0.35	0.093	U
95-47-6	o-Xylene	<b>0.082</b>	0.56	0.18	0.082	J
108-67-8	1,3,5-Trimethylbenzene	0.16	0.50	0.16	0.072	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.16</b>	0.49	0.16	0.070	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.081	U
91-20-3	Naphthalene	0.27	0.46	0.27	0.11	U
1330-20-7	Xylenes, Total	<b>0.24</b>	1.1	0.36	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U, L
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201104-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201104-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 10/12/20

Analyst: Wida Ang

Date(s) Received: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 11/3 - 11/5/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201103-MB	98	102	100	70-130	
Method Blank	P201104-MB	93	104	105	70-130	
Lab Control Sample	P201103-LCS	103	98	95	70-130	
Lab Control Sample	P201104-LCS	96	104	105	70-130	
Duplicate Lab Control Sample	P201103-DLCS	101	99	96	70-130	
Duplicate Lab Control Sample	P201104-DLCS	94	104	105	70-130	
SV121-450-204	P2005895-001	100	101	97	70-130	
SV122-025-204	P2005895-002	101	101	100	70-130	
SV122-050-204	P2005895-003	101	101	101	70-130	
SV122-150-204	P2005895-004	97	102	105	70-130	
SV122-250-204	P2005895-005	98	99	107	70-130	
SV122-350-204	P2005895-006	95	106	108	70-130	
SV122-450-204	P2005895-007	94	102	108	70-130	
SV122-450-204	P2005895-007DUP	94	102	108	70-130	
SV123-025-204	P2005895-008	96	101	107	70-130	
SV123-050-204	P2005895-009	93	105	109	70-130	
SV123-150-204	P2005895-010	95	101	107	70-130	
SV123-250-204	P2005895-011	95	98	103	70-130	
SV123-350-204	P2005895-012	93	98	105	70-130	
SV123-450-204	P2005895-013	95	102	108	70-130	
SV132-025-204	P2005895-014	101	102	108	70-130	
SV132-050-204	P2005895-015	96	99	105	70-130	
SV132-175-204	P2005895-016	96	102	108	70-130	
SV132-250-204	P2005895-017	95	102	107	70-130	
SV132-350-204	P2005895-018	97	102	109	70-130	
SV132-450-204	P2005895-019	94	101	107	70-130	
SV134-025-204	P2005895-020	95	104	108	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
115-07-1	Propene	122	112	110	<b>92</b>	<b>90</b>	57-136	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	36.1	35.1	<b>85</b>	<b>83</b>	59-128	2	25	
74-87-3	Chloromethane	99.8	106	95.5	<b>106</b>	<b>96</b>	59-132	10	25	
75-01-4	Vinyl Chloride	81.4	88.0	85.4	<b>108</b>	<b>105</b>	64-127	3	25	
106-99-0	1,3-Butadiene	95.0	99.3	96.8	<b>105</b>	<b>102</b>	66-134	3	25	
75-00-3	Chloroethane	77.3	73.2	70.3	<b>95</b>	<b>91</b>	63-127	4	25	
64-17-5	Ethanol	530	472	460	<b>89</b>	<b>87</b>	59-125	2	25	
67-64-1	Acetone	435	391	381	<b>90</b>	<b>88</b>	58-128	2	25	
75-69-4	Trichlorofluoromethane	36.3	29.7	29.0	<b>82</b>	<b>80</b>	62-126	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	171	166	<b>103</b>	<b>100</b>	52-125	3	25	
75-09-2	Methylene Chloride	59.9	54.2	53.0	<b>90</b>	<b>88</b>	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	27.9	23.5	23.1	<b>84</b>	<b>83</b>	66-126	1	25	
75-15-0	Carbon Disulfide	137	115	113	<b>84</b>	<b>82</b>	57-134	2	25	
75-34-3	1,1-Dichloroethane	52.4	47.0	46.0	<b>90</b>	<b>88</b>	68-126	2	25	
78-93-3	2-Butanone (MEK)	140	145	142	<b>104</b>	<b>101</b>	67-130	3	25	
141-78-6	Ethyl Acetate	117	157	154	<b>134</b>	<b>132</b>	65-128	2	25	<b>L</b>
110-54-3	n-Hexane	60.2	55.9	54.7	<b>93</b>	<b>91</b>	63-120	2	25	
67-66-3	Chloroform	43.8	36.8	36.1	<b>84</b>	<b>82</b>	68-123	2	25	
109-99-9	Tetrahydrofuran (THF)	136	122	119	<b>90</b>	<b>88</b>	64-123	2	25	
107-06-2	1,2-Dichloroethane	51.4	47.1	46.0	<b>92</b>	<b>89</b>	65-128	3	25	
71-43-2	Benzene	63.9	55.6	55.1	<b>87</b>	<b>86</b>	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	25.2	25.0	<b>75</b>	<b>75</b>	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.  
 L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		ppbV	ppbV	ppbV	ppbV					
110-82-7	Cyclohexane	121	105	104		<b>87</b>	<b>86</b>	70-117	1	25
75-27-4	Bromodichloromethane	31.4	27.1	26.8		<b>86</b>	<b>85</b>	72-128	1	25
79-01-6	Trichloroethene	38.3	32.3	31.9		<b>84</b>	<b>83</b>	71-123	1	25
123-91-1	1,4-Dioxane	57.7	55.6	55.2		<b>96</b>	<b>96</b>	71-122	0	25
142-82-5	n-Heptane	51.3	46.1	45.5		<b>90</b>	<b>89</b>	69-123	1	25
108-10-1	4-Methyl-2-pentanone	102	104	103		<b>102</b>	<b>101</b>	67-130	1	25
108-88-3	Toluene	54.7	45.3	45.2		<b>83</b>	<b>83</b>	66-119	0	25
591-78-6	2-Hexanone	98.7	108	108		<b>109</b>	<b>109</b>	62-128	0	25
124-48-1	Dibromochloromethane	24.7	21.2	21.2		<b>86</b>	<b>86</b>	70-130	0	25
106-93-4	1,2-Dibromoethane	27.1	24.5	24.5		<b>90</b>	<b>90</b>	74-122	0	25
127-18-4	Tetrachloroethene	30.4	24.1	24.1		<b>79</b>	<b>79</b>	66-124	0	25
100-41-4	Ethylbenzene	47.4	40.4	40.4		<b>85</b>	<b>85</b>	70-124	0	25
179601-23-1	m,p-Xylenes	94.9	78.1	77.8		<b>82</b>	<b>82</b>	61-134	0	25
75-25-2	Bromoform	20.1	17.4	17.4		<b>87</b>	<b>87</b>	66-139	0	25
100-42-5	Styrene	48.4	44.4	44.4		<b>92</b>	<b>92</b>	73-127	0	25
95-47-6	o-Xylene	47.4	40.0	40.1		<b>84</b>	<b>85</b>	67-125	1	25
108-67-8	1,3,5-Trimethylbenzene	41.9	33.5	33.5		<b>80</b>	<b>80</b>	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	41.5	35.5	35.4		<b>86</b>	<b>85</b>	66-132	1	25
120-82-1	1,2,4-Trichlorobenzene	52.3	43.1	43.3		<b>82</b>	<b>83</b>	55-142	1	25
91-20-3	Naphthalene	37.8	32.7	32.8		<b>87</b>	<b>87</b>	57-138	0	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201104-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	122	92.9	92.9	76	76	57-136	0	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	32.2	31.7	76	75	59-128	1	25	
74-87-3	Chloromethane	99.8	80.9	81.3	81	81	59-132	0	25	
75-01-4	Vinyl Chloride	81.4	68.7	68.7	84	84	64-127	0	25	
106-99-0	1,3-Butadiene	95.0	83.6	83.0	88	87	66-134	1	25	
75-00-3	Chloroethane	77.3	62.1	62.0	80	80	63-127	0	25	
64-17-5	Ethanol	530	385	387	73	73	59-125	0	25	
67-64-1	Acetone	435	334	333	77	77	58-128	0	25	
75-69-4	Trichlorofluoromethane	36.3	26.8	26.5	74	73	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	139	140	84	84	52-125	0	25	
75-09-2	Methylene Chloride	59.9	48.1	47.7	80	80	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	27.9	22.3	22.1	80	79	66-126	1	25	
75-15-0	Carbon Disulfide	137	101	100	74	73	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	40.5	40.3	77	77	68-126	0	25	
78-93-3	2-Butanone (MEK)	140	128	127	91	91	67-130	0	25	
141-78-6	Ethyl Acetate	117	134	134	115	115	65-128	0	25	
110-54-3	n-Hexane	60.2	47.6	47.4	79	79	63-120	0	25	
67-66-3	Chloroform	43.8	32.8	32.6	75	74	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	136	107	106	79	78	64-123	1	25	
107-06-2	1,2-Dichloroethane	51.4	41.0	40.8	80	79	65-128	1	25	
71-43-2	Benzene	63.9	50.1	50.2	78	79	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	23.6	23.5	71	70	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201104-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	96.2	96.4	<b>80</b>	<b>80</b>	70-117	0	25	
75-27-4	Bromodichloromethane	31.4	24.5	24.5	<b>78</b>	<b>78</b>	72-128	0	25	
79-01-6	Trichloroethene	38.3	30.8	30.8	<b>80</b>	<b>80</b>	71-123	0	25	
123-91-1	1,4-Dioxane	57.7	50.9	50.9	<b>88</b>	<b>88</b>	71-122	0	25	
142-82-5	n-Heptane	51.3	41.2	43.0	<b>80</b>	<b>84</b>	69-123	5	25	
108-10-1	4-Methyl-2-pentanone	102	90.9	101	<b>89</b>	<b>99</b>	67-130	11	25	
108-88-3	Toluene	54.7	44.9	44.9	<b>82</b>	<b>82</b>	66-119	0	25	
591-78-6	2-Hexanone	98.7	103	106	<b>104</b>	<b>107</b>	62-128	3	25	
124-48-1	Dibromochloromethane	24.7	21.1	21.2	<b>85</b>	<b>86</b>	70-130	1	25	
106-93-4	1,2-Dibromoethane	27.1	23.6	24.4	<b>87</b>	<b>90</b>	74-122	3	25	
127-18-4	Tetrachloroethene	30.4	24.4	24.1	<b>80</b>	<b>79</b>	66-124	1	25	
100-41-4	Ethylbenzene	47.4	38.5	38.2	<b>81</b>	<b>81</b>	70-124	0	25	
179601-23-1	m,p-Xylenes	94.9	74.2	73.7	<b>78</b>	<b>78</b>	61-134	0	25	
75-25-2	Bromoform	20.1	17.6	17.4	<b>88</b>	<b>87</b>	66-139	1	25	
100-42-5	Styrene	48.4	42.8	42.6	<b>88</b>	<b>88</b>	73-127	0	25	
95-47-6	o-Xylene	47.4	38.0	37.8	<b>80</b>	<b>80</b>	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	32.5	32.2	<b>78</b>	<b>77</b>	67-130	1	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	34.2	34.0	<b>82</b>	<b>82</b>	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	43.9	43.9	<b>84</b>	<b>84</b>	55-142	0	25	
91-20-3	Naphthalene	37.8	32.3	32.6	<b>85</b>	<b>86</b>	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-007DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00446

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -2.84

Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

Compound	Sample Result ppbV	Duplicate Sample Result ppbV	Average ppbV	% RPD	RPD Limit	Data Qualifier
Propene	5.0	ND	-	-	25	
Dichlorodifluoromethane (CFC 12)	10	11	10.5	10	25	
Chloromethane	22	23	22.5	4	25	
Vinyl Chloride	3.2	3.2	3.2	0	25	J
1,3-Butadiene	ND	ND	-	-	25	
Chloroethane	ND	ND	-	-	25	
Ethanol	ND	ND	-	-	25	
Acetone	ND	ND	-	-	25	
Trichlorofluoromethane	ND	ND	-	-	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	-	-	25	
Methylene Chloride	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	-	-	25	
Carbon Disulfide	68	71	69.5	4	25	
1,1-Dichloroethane	ND	ND	-	-	25	
2-Butanone (MEK)	11	10	10.5	10	25	J
Ethyl Acetate	ND	ND	-	-	25	
n-Hexane	8.7	9.4	9.05	8	25	
Chloroform	ND	ND	-	-	25	
Tetrahydrofuran (THF)	46	48	47	4	25	
1,2-Dichloroethane	ND	ND	-	-	25	
Benzene	46	48	47	4	25	
Carbon Tetrachloride	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-007DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00446

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -2.84

Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

Compound	Sample Result ppbV	Duplicate Sample Result ppbV	Average ppbV	% RPD	RPD Limit	Data Qualifier
Cyclohexane	15	16	15.5	6	25	J
Bromodichloromethane	ND	ND	-	-	25	
Trichloroethene	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	-	-	25	
n-Heptane	ND	1.8	-	-	25	J
4-Methyl-2-pentanone	ND	ND	-	-	25	
Toluene	140	140	140	0	25	
2-Hexanone	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	-	-	25	
Ethylbenzene	5.9	6.0	5.95	2	25	J
m,p-Xylenes	9.8	10	9.9	2	25	J
Bromoform	ND	ND	-	-	25	
Styrene	ND	ND	-	-	25	
o-Xylene	3.5	3.3	3.4	6	25	J
1,3,5-Trimethylbenzene	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	-	-	25	
Naphthalene	ND	ND	-	-	25	
Xylenes, Total	13	13	13	0	25	J

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00503

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.080 Liter(s)

Initial Pressure (psig): -2.64 Final Pressure (psig): 7.10

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	7.4	12	7.2	2.9	J
75-71-8	Dichlorodifluoromethane (CFC 12)	120	12	7.2	2.0	
74-87-3	Chloromethane	57	12	7.2	1.9	
75-01-4	Vinyl Chloride	11	12	3.8	1.3	J
106-99-0	1,3-Butadiene	7.2	12	7.2	2.0	U
75-00-3	Chloroethane	7.7	12	7.2	1.5	J
64-17-5	Ethanol	19	120	19	8.4	U
67-64-1	Acetone	61	120	61	27	U
75-69-4	Trichlorofluoromethane	13	12	7.2	1.8	
67-63-0	2-Propanol (Isopropyl Alcohol)	14	23	14	5.0	U
75-09-2	Methylene Chloride	7.2	12	7.2	3.4	U
76-13-1	Trichlorotrifluoroethane	2.9	12	3.8	1.7	J
75-15-0	Carbon Disulfide	250	23	12	3.6	
75-34-3	1,1-Dichloroethane	6.4	12	7.5	1.8	J
78-93-3	2-Butanone (MEK)	3.7	23	7.2	2.5	J
141-78-6	Ethyl Acetate	15	23	15	6.3	U, L
110-54-3	n-Hexane	14	12	7.2	2.5	
67-66-3	Chloroform	3.8	12	3.8	1.6	U
109-99-9	Tetrahydrofuran (THF)	46	23	3.8	1.5	
107-06-2	1,2-Dichloroethane	2.7	12	3.8	1.3	J
71-43-2	Benzene	170	12	3.8	1.7	
56-23-5	Carbon Tetrachloride	3.8	12	3.8	1.7	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV121-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00503

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.080 Liter(s)

Initial Pressure (psig): -2.64 Final Pressure (psig): 7.10

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>73</b>	23	7.7	3.4	
75-27-4	Bromodichloromethane	3.8	12	3.8	1.7	<b>U</b>
79-01-6	Trichloroethene	3.8	12	3.8	1.6	<b>U</b>
123-91-1	1,4-Dioxane	3.8	12	3.8	1.4	<b>U</b>
142-82-5	n-Heptane	<b>4.0</b>	12	7.2	1.9	<b>J</b>
108-10-1	4-Methyl-2-pentanone	3.8	23	3.8	1.7	<b>U</b>
108-88-3	Toluene	<b>570</b>	12	3.8	1.5	
591-78-6	2-Hexanone	3.8	23	3.8	1.5	<b>U</b>
124-48-1	Dibromochloromethane	3.8	12	3.8	1.6	<b>U</b>
106-93-4	1,2-Dibromoethane	3.8	12	3.8	1.4	<b>U</b>
127-18-4	Tetrachloroethene	3.8	12	3.8	1.6	<b>U</b>
100-41-4	Ethylbenzene	<b>31</b>	12	3.8	1.7	
179601-23-1	m,p-Xylenes	<b>44</b>	23	7.7	3.2	
75-25-2	Bromoform	7.2	12	7.2	2.5	<b>U</b>
100-42-5	Styrene	7.2	12	7.2	1.9	<b>U</b>
95-47-6	o-Xylene	<b>15</b>	12	3.8	1.7	
108-67-8	1,3,5-Trimethylbenzene	3.8	12	3.8	1.7	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>2.4</b>	12	3.8	1.7	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	7.2	23	7.2	2.9	<b>U</b>
91-20-3	Naphthalene	7.0	12	7.0	2.9	<b>U</b>
1330-20-7	Xylenes, Total	<b>59</b>	23	7.7	3.2	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01018

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.44 Final Pressure (psig): 7.40

Container Dilution Factor: 2.15

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.8	1.7	0.70	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.8	1.7	0.47	J
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	U
75-01-4	Vinyl Chloride	0.91	2.8	0.91	0.31	U
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	U
64-17-5	Ethanol	3.1	28	4.5	2.0	J
67-64-1	Acetone	11	28	15	6.5	J
75-69-4	Trichlorofluoromethane	1.1	2.7	1.7	0.44	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.4	5.4	3.4	1.2	U
75-09-2	Methylene Chloride	1.7	2.8	1.7	0.81	U
76-13-1	Trichlorotrifluoroethane	0.91	2.8	0.91	0.41	U
75-15-0	Carbon Disulfide	6.7	5.4	2.9	0.86	
75-34-3	1,1-Dichloroethane	1.8	2.9	1.8	0.42	U
78-93-3	2-Butanone (MEK)	3.9	5.4	1.7	0.59	J
141-78-6	Ethyl Acetate	9.1	5.4	3.5	1.5	L
110-54-3	n-Hexane	1.1	2.8	1.7	0.59	J
67-66-3	Chloroform	81	2.8	0.91	0.38	
109-99-9	Tetrahydrofuran (THF)	0.91	5.4	0.91	0.36	U
107-06-2	1,2-Dichloroethane	0.91	2.8	0.91	0.32	U
71-43-2	Benzene	1.6	2.8	0.91	0.41	J
56-23-5	Carbon Tetrachloride	1.3	2.7	0.91	0.40	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-002

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01018

Initial Pressure (psig): -4.44 Final Pressure (psig): 7.40

Container Dilution Factor: 2.15

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.2	5.4	1.8	0.81	J
75-27-4	Bromodichloromethane	7.1	2.8	0.91	0.41	
79-01-6	Trichloroethene	0.65	2.7	0.91	0.39	J
123-91-1	1,4-Dioxane	0.91	2.8	0.91	0.34	U
142-82-5	n-Heptane	1.5	2.8	1.7	0.46	J
108-10-1	4-Methyl-2-pentanone	0.91	5.4	0.91	0.39	U
108-88-3	Toluene	7.0	2.8	0.91	0.35	
591-78-6	2-Hexanone	3.6	5.4	0.91	0.35	J
124-48-1	Dibromochloromethane	0.91	2.8	0.91	0.38	U
106-93-4	1,2-Dibromoethane	0.91	2.8	0.91	0.33	U
127-18-4	Tetrachloroethene	1.1	2.8	0.91	0.37	J
100-41-4	Ethylbenzene	1.4	2.8	0.91	0.40	J
179601-23-1	m,p-Xylenes	5.6	5.4	1.8	0.75	
75-25-2	Bromoform	1.7	2.8	1.7	0.59	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	2.1	2.8	0.91	0.41	J
108-67-8	1,3,5-Trimethylbenzene	0.62	2.8	0.91	0.41	J
95-63-6	1,2,4-Trimethylbenzene	2.3	2.8	0.91	0.40	J
120-82-1	1,2,4-Trichlorobenzene	1.7	5.4	1.7	0.70	U
91-20-3	Naphthalene	1.3	2.8	1.7	0.70	J
1330-20-7	Xylenes, Total	7.7	5.4	1.8	0.75	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00894

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.37 Final Pressure (psig): 7.50

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.2	2.3	1.4	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	2.3	1.4	0.39	
74-87-3	Chloromethane	1.4	2.3	1.4	0.39	U
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.40	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.30	U
64-17-5	Ethanol	7.0	24	3.7	1.7	J
67-64-1	Acetone	17	23	12	5.4	J
75-69-4	Trichlorofluoromethane	1.1	2.3	1.4	0.36	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.5	2.8	0.99	J
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.68	U
76-13-1	Trichlorotrifluoroethane	0.51	2.4	0.77	0.34	J
75-15-0	Carbon Disulfide	12	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	5.7	4.5	1.4	0.50	
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	U, L
110-54-3	n-Hexane	1.4	2.3	1.4	0.50	U
67-66-3	Chloroform	380	2.4	0.77	0.32	
109-99-9	Tetrahydrofuran (THF)	0.77	4.5	0.77	0.30	U
107-06-2	1,2-Dichloroethane	0.77	2.3	0.77	0.27	U
71-43-2	Benzene	0.54	2.3	0.77	0.35	J
56-23-5	Carbon Tetrachloride	9.3	2.3	0.77	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV122-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-003

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00894

Initial Pressure (psig): -2.37 Final Pressure (psig): 7.50

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.68	U
75-27-4	Bromodichloromethane	51	2.3	0.77	0.35	
79-01-6	Trichloroethene	1.3	2.3	0.77	0.32	J
123-91-1	1,4-Dioxane	0.77	2.3	0.77	0.28	U
142-82-5	n-Heptane	0.56	2.3	1.4	0.38	J
108-10-1	4-Methyl-2-pentanone	0.77	4.5	0.77	0.33	U
108-88-3	Toluene	2.5	2.3	0.77	0.29	
591-78-6	2-Hexanone	1.5	4.5	0.77	0.30	J
124-48-1	Dibromochloromethane	1.6	2.3	0.77	0.32	J
106-93-4	1,2-Dibromoethane	0.77	2.3	0.77	0.28	U
127-18-4	Tetrachloroethene	4.0	2.3	0.77	0.31	
100-41-4	Ethylbenzene	0.52	2.3	0.77	0.34	J
179601-23-1	m,p-Xylenes	2.1	4.5	1.5	0.63	J
75-25-2	Bromoform	1.4	2.4	1.4	0.50	U
100-42-5	Styrene	1.4	2.3	1.4	0.39	U
95-47-6	o-Xylene	0.76	2.4	0.77	0.35	J
108-67-8	1,3,5-Trimethylbenzene	0.77	2.4	0.77	0.35	U
95-63-6	1,2,4-Trimethylbenzene	0.84	2.3	0.77	0.33	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.59	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.59	U
1330-20-7	Xylenes, Total	2.8	4.5	1.5	0.63	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00973

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 7.20

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.3	1.4	0.58	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>7.3</b>	2.3	1.4	0.39	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	U
75-01-4	Vinyl Chloride	0.76	2.4	0.76	0.26	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.30	U
64-17-5	Ethanol	3.7	24	3.7	1.7	U
67-64-1	Acetone	<b>6.9</b>	23	12	5.4	J
75-69-4	Trichlorofluoromethane	<b>0.72</b>	2.3	1.4	0.36	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.5	2.8	0.98	U
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.67	U
76-13-1	Trichlorotrifluoroethane	<b>0.56</b>	2.4	0.76	0.34	J
75-15-0	Carbon Disulfide	<b>4.9</b>	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	<b>2.5</b>	4.5	1.4	0.49	J
141-78-6	Ethyl Acetate	<b>2.9</b>	4.5	2.9	1.3	J, L
110-54-3	n-Hexane	<b>0.63</b>	2.3	1.4	0.49	J
67-66-3	Chloroform	<b>23</b>	2.4	0.76	0.32	
109-99-9	Tetrahydrofuran (THF)	<b>40</b>	4.5	0.76	0.30	
107-06-2	1,2-Dichloroethane	0.76	2.3	0.76	0.26	U
71-43-2	Benzene	<b>0.60</b>	2.3	0.76	0.34	J
56-23-5	Carbon Tetrachloride	<b>13</b>	2.3	0.76	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV122-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-004

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00973

Initial Pressure (psig): -2.46 Final Pressure (psig): 7.20

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.67	U
75-27-4	Bromodichloromethane	2.1	2.3	0.76	0.34	J
79-01-6	Trichloroethene	0.76	2.3	0.76	0.32	U
123-91-1	1,4-Dioxane	0.76	2.3	0.76	0.28	U
142-82-5	n-Heptane	0.90	2.3	1.4	0.38	J
108-10-1	4-Methyl-2-pentanone	0.76	4.5	0.76	0.33	U
108-88-3	Toluene	3.0	2.3	0.76	0.29	J
591-78-6	2-Hexanone	0.76	4.5	0.76	0.30	U
124-48-1	Dibromochloromethane	0.76	2.3	0.76	0.31	U
106-93-4	1,2-Dibromoethane	0.76	2.3	0.76	0.28	U
127-18-4	Tetrachloroethene	1.8	2.3	0.76	0.31	J
100-41-4	Ethylbenzene	0.51	2.3	0.76	0.34	J
179601-23-1	m,p-Xylenes	2.2	4.5	1.5	0.63	J
75-25-2	Bromoform	1.4	2.4	1.4	0.49	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	0.72	2.4	0.76	0.34	J
108-67-8	1,3,5-Trimethylbenzene	0.76	2.4	0.76	0.34	U
95-63-6	1,2,4-Trimethylbenzene	0.62	2.3	0.76	0.33	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.58	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.58	U
1330-20-7	Xylenes, Total	2.9	4.5	1.5	0.63	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00536

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.25 Final Pressure (psig): 7.70

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.91</b>	2.3	1.4	0.59	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>27</b>	2.3	1.4	0.39	
74-87-3	Chloromethane	<b>2.1</b>	2.3	1.4	0.39	<b>J</b>
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	<b>U</b>
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.40	<b>U</b>
75-00-3	Chloroethane	<b>0.82</b>	2.3	1.4	0.30	<b>J</b>
64-17-5	Ethanol	<b>6.9</b>	24	3.7	1.7	<b>J</b>
67-64-1	Acetone	<b>46</b>	23	12	5.4	
75-69-4	Trichlorofluoromethane	<b>2.0</b>	2.3	1.4	0.36	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.5	2.8	0.99	<b>U</b>
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.68	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>1.2</b>	2.4	0.77	0.34	<b>J</b>
75-15-0	Carbon Disulfide	<b>7.6</b>	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>14</b>	4.5	1.4	0.50	
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	<b>U, L</b>
110-54-3	n-Hexane	1.4	2.3	1.4	0.50	<b>U</b>
67-66-3	Chloroform	<b>0.76</b>	2.4	0.77	0.32	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>3.9</b>	4.5	0.77	0.30	<b>J</b>
107-06-2	1,2-Dichloroethane	0.77	2.3	0.77	0.27	<b>U</b>
71-43-2	Benzene	<b>0.51</b>	2.3	0.77	0.35	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>4.3</b>	2.3	0.77	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-005

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00536

Initial Pressure (psig): -2.25 Final Pressure (psig): 7.70

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.68	U
75-27-4	Bromodichloromethane	0.77	2.3	0.77	0.35	U
79-01-6	Trichloroethene	0.77	2.3	0.77	0.32	U
123-91-1	1,4-Dioxane	0.54	2.3	0.77	0.28	J
142-82-5	n-Heptane	1.4	2.3	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	0.77	4.5	0.77	0.33	J
108-88-3	Toluene	1.8	2.3	0.77	0.29	J
591-78-6	2-Hexanone	2.7	4.5	0.77	0.30	J
124-48-1	Dibromochloromethane	0.77	2.3	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.3	0.77	0.28	U
127-18-4	Tetrachloroethene	0.77	2.3	0.77	0.31	U
100-41-4	Ethylbenzene	0.39	2.3	0.77	0.34	J
179601-23-1	m,p-Xylenes	1.8	4.5	1.5	0.63	J
75-25-2	Bromoform	1.4	2.4	1.4	0.50	U
100-42-5	Styrene	1.4	2.3	1.4	0.39	U
95-47-6	o-Xylene	0.63	2.4	0.77	0.35	J
108-67-8	1,3,5-Trimethylbenzene	0.77	2.4	0.77	0.35	U
95-63-6	1,2,4-Trimethylbenzene	0.81	2.3	0.77	0.33	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.59	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.59	U
1330-20-7	Xylenes, Total	2.4	4.5	1.5	0.63	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00782

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.24 Final Pressure (psig): 7.15

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.3	1.4	0.57	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>120</b>	2.3	1.4	0.38	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	U
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	U
64-17-5	Ethanol	<b>3.7</b>	23	3.6	1.6	J
67-64-1	Acetone	<b>9.7</b>	23	12	5.3	J
75-69-4	Trichlorofluoromethane	<b>12</b>	2.2	1.4	0.35	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.4	2.8	0.96	U
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.66	U
76-13-1	Trichlorotrifluoroethane	<b>3.4</b>	2.3	0.74	0.33	
75-15-0	Carbon Disulfide	<b>9.4</b>	4.4	2.4	0.70	
75-34-3	1,1-Dichloroethane	1.4	2.4	1.4	0.34	U
78-93-3	2-Butanone (MEK)	<b>2.2</b>	4.4	1.4	0.48	J
141-78-6	Ethyl Acetate	<b>3.1</b>	4.4	2.8	1.2	J, L
110-54-3	n-Hexane	<b>0.55</b>	2.3	1.4	0.48	J
67-66-3	Chloroform	<b>0.58</b>	2.3	0.74	0.31	J
109-99-9	Tetrahydrofuran (THF)	0.74	4.4	0.74	0.29	U
107-06-2	1,2-Dichloroethane	0.74	2.3	0.74	0.26	U
71-43-2	Benzene	<b>1.7</b>	2.3	0.74	0.34	J
56-23-5	Carbon Tetrachloride	<b>0.50</b>	2.2	0.74	0.32	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV122-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-006

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00782

Initial Pressure (psig): -2.24 Final Pressure (psig): 7.15

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.4	1.5	0.66	U
75-27-4	Bromodichloromethane	0.74	2.3	0.74	0.34	U
79-01-6	Trichloroethene	<b>4.6</b>	2.2	0.74	0.32	
123-91-1	1,4-Dioxane	0.74	2.3	0.74	0.28	U
142-82-5	n-Heptane	<b>0.76</b>	2.3	1.4	0.37	J
108-10-1	4-Methyl-2-pentanone	0.74	4.4	0.74	0.32	U
108-88-3	Toluene	<b>11</b>	2.3	0.74	0.28	
591-78-6	2-Hexanone	<b>0.72</b>	4.4	0.74	0.29	J
124-48-1	Dibromochloromethane	0.74	2.3	0.74	0.31	U
106-93-4	1,2-Dibromoethane	0.74	2.3	0.74	0.27	U
127-18-4	Tetrachloroethene	<b>0.83</b>	2.3	0.74	0.30	J
100-41-4	Ethylbenzene	<b>1.2</b>	2.3	0.74	0.33	J
179601-23-1	m,p-Xylenes	<b>4.1</b>	4.4	1.5	0.61	J
75-25-2	Bromoform	1.4	2.3	1.4	0.48	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	<b>1.2</b>	2.3	0.74	0.34	J
108-67-8	1,3,5-Trimethylbenzene	0.74	2.3	0.74	0.34	U
95-63-6	1,2,4-Trimethylbenzene	<b>1.1</b>	2.3	0.74	0.32	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.57	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.57	U
1330-20-7	Xylenes, Total	<b>5.3</b>	4.4	1.5	0.61	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00446

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	8.5	33	20	8.3	J
75-71-8	Dichlorodifluoromethane (CFC 12)	51	33	20	5.5	
74-87-3	Chloromethane	46	33	20	5.5	
75-01-4	Vinyl Chloride	8.1	34	11	3.6	J
106-99-0	1,3-Butadiene	20	33	20	5.6	U
75-00-3	Chloroethane	20	33	20	4.2	U
64-17-5	Ethanol	53	340	53	24	U
67-64-1	Acetone	170	330	170	76	U
75-69-4	Trichlorofluoromethane	20	32	20	5.2	U
67-63-0	2-Propanol (Isopropyl Alcohol)	40	64	40	14	U
75-09-2	Methylene Chloride	20	33	20	9.6	U
76-13-1	Trichlorotrifluoroethane	11	34	11	4.8	U
75-15-0	Carbon Disulfide	210	64	34	10	
75-34-3	1,1-Dichloroethane	21	34	21	5.0	U
78-93-3	2-Butanone (MEK)	31	64	20	7.0	J
141-78-6	Ethyl Acetate	41	64	41	18	U
110-54-3	n-Hexane	31	33	20	7.0	J
67-66-3	Chloroform	11	34	11	4.5	U
109-99-9	Tetrahydrofuran (THF)	140	64	11	4.3	
107-06-2	1,2-Dichloroethane	11	33	11	3.8	U
71-43-2	Benzene	150	33	11	4.9	
56-23-5	Carbon Tetrachloride	11	32	11	4.7	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00446

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	53	64	22	9.6	J
75-27-4	Bromodichloromethane	11	33	11	4.9	U
79-01-6	Trichloroethene	11	32	11	4.6	U
123-91-1	1,4-Dioxane	11	33	11	4.0	U
142-82-5	n-Heptane	20	33	20	5.4	U
108-10-1	4-Methyl-2-pentanone	11	64	11	4.6	U
108-88-3	Toluene	510	33	11	4.1	U
591-78-6	2-Hexanone	11	64	11	4.2	U
124-48-1	Dibromochloromethane	11	33	11	4.5	U
106-93-4	1,2-Dibromoethane	11	33	11	3.9	U
127-18-4	Tetrachloroethene	11	33	11	4.4	U
100-41-4	Ethylbenzene	26	33	11	4.8	J
179601-23-1	m,p-Xylenes	42	64	22	8.9	J
75-25-2	Bromoform	20	34	20	7.0	U
100-42-5	Styrene	20	33	20	5.5	U
95-47-6	o-Xylene	15	34	11	4.9	J
108-67-8	1,3,5-Trimethylbenzene	11	34	11	4.9	U
95-63-6	1,2,4-Trimethylbenzene	11	33	11	4.7	U
120-82-1	1,2,4-Trichlorobenzene	20	64	20	8.3	U
91-20-3	Naphthalene	20	33	20	8.3	U
1330-20-7	Xylenes, Total	58	64	22	8.9	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00015

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 7.30

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>6.9</b>	2.4	1.4	0.59	
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.3</b>	2.4	1.4	0.39	<b>J</b>
74-87-3	Chloromethane	1.4	2.4	1.4	0.39	<b>U</b>
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	<b>U</b>
106-99-0	1,3-Butadiene	1.4	2.4	1.4	0.40	<b>U</b>
75-00-3	Chloroethane	1.4	2.4	1.4	0.30	<b>U</b>
64-17-5	Ethanol	<b>4.6</b>	24	3.8	1.7	<b>J</b>
67-64-1	Acetone	<b>25</b>	24	12	5.4	
75-69-4	Trichlorofluoromethane	<b>1.0</b>	2.3	1.4	0.37	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>1.4</b>	4.5	2.9	1.0	<b>J</b>
75-09-2	Methylene Chloride	<b>0.90</b>	2.4	1.4	0.68	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>0.44</b>	2.4	0.77	0.34	<b>J</b>
75-15-0	Carbon Disulfide	<b>5.9</b>	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>6.7</b>	4.5	1.4	0.50	
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	<b>U</b>
110-54-3	n-Hexane	1.4	2.4	1.4	0.50	<b>U</b>
67-66-3	Chloroform	<b>270</b>	2.4	0.77	0.32	
109-99-9	Tetrahydrofuran (THF)	<b>2.6</b>	4.5	0.77	0.30	<b>J</b>
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	<b>U</b>
71-43-2	Benzene	0.77	2.4	0.77	0.35	<b>U</b>
56-23-5	Carbon Tetrachloride	<b>2.6</b>	2.3	0.77	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV123-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-008

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00015

Initial Pressure (psig): -2.54 Final Pressure (psig): 7.30

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.68	U
75-27-4	Bromodichloromethane	<b>120</b>	2.4	0.77	0.35	
79-01-6	Trichloroethene	<b>0.69</b>	2.3	0.77	0.33	J
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	1.4	2.4	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	0.77	4.5	0.77	0.33	U
108-88-3	Toluene	<b>0.89</b>	2.4	0.77	0.29	J
591-78-6	2-Hexanone	<b>1.6</b>	4.5	0.77	0.30	J
124-48-1	Dibromochloromethane	<b>13</b>	2.4	0.77	0.32	
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	<b>2.3</b>	2.4	0.77	0.31	J
100-41-4	Ethylbenzene	0.77	2.4	0.77	0.34	U
179601-23-1	m,p-Xylenes	<b>0.75</b>	4.5	1.5	0.63	J
75-25-2	Bromoform	1.4	2.4	1.4	0.50	U
100-42-5	Styrene	1.4	2.4	1.4	0.39	U
95-47-6	o-Xylene	0.77	2.4	0.77	0.35	U
108-67-8	1,3,5-Trimethylbenzene	0.77	2.4	0.77	0.35	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.36</b>	2.4	0.77	0.33	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	<b>0.75</b>	4.5	1.5	0.63	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01068

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4 - 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.79 Final Pressure (psig): 7.90

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.83</b>	2.5	1.5	0.62	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>4.9</b>	2.5	1.5	0.41	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	<b>U</b>
75-01-4	Vinyl Chloride	0.81	2.5	0.81	0.27	<b>U</b>
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	<b>U</b>
75-00-3	Chloroethane	1.5	2.5	1.5	0.31	<b>U</b>
64-17-5	Ethanol	<b>2.9</b>	25	3.9	1.8	<b>J</b>
67-64-1	Acetone	<b>13</b>	25	13	5.7	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>1.2</b>	2.4	1.5	0.38	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.0	<b>U</b>
75-09-2	Methylene Chloride	<b>17</b>	2.5	1.5	0.71	
76-13-1	Trichlorotrifluoroethane	<b>0.87</b>	2.5	0.81	0.36	<b>J</b>
75-15-0	Carbon Disulfide	<b>3.3</b>	4.8	2.6	0.76	<b>J</b>
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>3.0</b>	4.8	1.5	0.52	<b>J</b>
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	<b>U</b>
110-54-3	n-Hexane	1.5	2.5	1.5	0.52	<b>U</b>
67-66-3	Chloroform	<b>1,100</b>	25	8.1	3.4	<b>D</b>
109-99-9	Tetrahydrofuran (THF)	<b>0.52</b>	4.8	0.81	0.32	<b>J</b>
107-06-2	1,2-Dichloroethane	0.81	2.5	0.81	0.28	<b>U</b>
71-43-2	Benzene	<b>0.46</b>	2.5	0.81	0.37	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>17</b>	2.4	0.81	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01068

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4 - 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.79 Final Pressure (psig): 7.90

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.71	U
75-27-4	Bromodichloromethane	<b>480</b>	25	8.1	3.7	D
79-01-6	Trichloroethene	<b>5.4</b>	2.4	0.81	0.34	
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	<b>0.46</b>	2.5	1.5	0.40	J
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	U
108-88-3	Toluene	<b>1.8</b>	2.5	0.81	0.31	J
591-78-6	2-Hexanone	0.81	4.8	0.81	0.31	U
124-48-1	Dibromochloromethane	<b>84</b>	2.5	0.81	0.33	
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.29	U
127-18-4	Tetrachloroethene	<b>8.8</b>	2.5	0.81	0.33	
100-41-4	Ethylbenzene	0.81	2.5	0.81	0.36	U
179601-23-1	m,p-Xylenes	<b>0.91</b>	4.8	1.6	0.67	J
75-25-2	Bromoform	<b>9.0</b>	2.5	1.5	0.52	
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.81	2.5	0.81	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.81	2.5	0.81	0.37	U
95-63-6	1,2,4-Trimethylbenzene	0.81	2.5	0.81	0.35	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	<b>0.91</b>	4.8	1.6	0.67	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01359

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.01 Final Pressure (psig): 7.57

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.62	U
75-71-8	Dichlorodifluoromethane (CFC 12)	41	2.5	1.5	0.42	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.81	2.5	0.81	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	4.0	25	4.0	1.8	U
67-64-1	Acetone	6.8	25	13	5.7	J
75-69-4	Trichlorofluoromethane	3.1	2.4	1.5	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	2.1	2.5	0.81	0.36	J
75-15-0	Carbon Disulfide	1.7	4.8	2.6	0.76	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	1.0	4.8	1.5	0.53	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.5	1.5	0.53	U
67-66-3	Chloroform	29	2.5	0.81	0.34	
109-99-9	Tetrahydrofuran (THF)	0.81	4.8	0.81	0.32	U
107-06-2	1,2-Dichloroethane	0.81	2.5	0.81	0.28	U
71-43-2	Benzene	0.81	2.5	0.81	0.37	U
56-23-5	Carbon Tetrachloride	17	2.4	0.81	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-010

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01359

Initial Pressure (psig): -3.01 Final Pressure (psig): 7.57

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.72	U
75-27-4	Bromodichloromethane	<b>6.4</b>	2.5	0.81	0.37	
79-01-6	Trichloroethene	0.81	2.4	0.81	0.34	U
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.41	U
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	U
108-88-3	Toluene	<b>0.56</b>	2.5	0.81	0.31	J
591-78-6	2-Hexanone	0.81	4.8	0.81	0.32	U
124-48-1	Dibromochloromethane	0.81	2.5	0.81	0.33	U
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.30	U
127-18-4	Tetrachloroethene	<b>2.7</b>	2.5	0.81	0.33	
100-41-4	Ethylbenzene	<b>2.3</b>	2.5	0.81	0.36	J
179601-23-1	m,p-Xylenes	1.6	4.8	1.6	0.67	U
75-25-2	Bromoform	1.5	2.5	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.81	2.5	0.81	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.81	2.5	0.81	0.37	U
95-63-6	1,2,4-Trimethylbenzene	0.81	2.5	0.81	0.35	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	<b>2.5</b>	2.5	1.5	0.62	
1330-20-7	Xylenes, Total	1.6	4.8	1.6	0.67	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01098

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.81 Final Pressure (psig): 8.11

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.62	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>59</b>	2.5	1.5	0.42	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.82	2.5	0.82	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	<b>4.6</b>	25	4.0	1.8	J
67-64-1	Acetone	<b>9.6</b>	25	13	5.8	J
75-69-4	Trichlorofluoromethane	<b>4.7</b>	2.4	1.5	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	<b>2.6</b>	2.5	0.82	0.36	
75-15-0	Carbon Disulfide	<b>1.3</b>	4.8	2.6	0.77	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	<b>1.5</b>	4.8	1.5	0.53	J
141-78-6	Ethyl Acetate	<b>50</b>	4.8	3.1	1.3	
110-54-3	n-Hexane	1.5	2.5	1.5	0.53	U
67-66-3	Chloroform	<b>6.9</b>	2.5	0.82	0.34	
109-99-9	Tetrahydrofuran (THF)	<b>0.75</b>	4.8	0.82	0.32	J
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	0.82	2.5	0.82	0.37	U
56-23-5	Carbon Tetrachloride	<b>5.1</b>	2.4	0.82	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01098

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.81 Final Pressure (psig): 8.11

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.72	U
75-27-4	Bromodichloromethane	<b>2.9</b>	2.5	0.82	0.37	
79-01-6	Trichloroethene	0.82	2.4	0.82	0.35	U
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.30	U
142-82-5	n-Heptane	1.5	2.5	1.5	0.41	U
108-10-1	4-Methyl-2-pentanone	0.82	4.8	0.82	0.35	U
108-88-3	Toluene	<b>1.7</b>	2.5	0.82	0.31	J
591-78-6	2-Hexanone	0.82	4.8	0.82	0.32	U
124-48-1	Dibromochloromethane	<b>0.47</b>	2.5	0.82	0.34	J
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	0.82	2.5	0.82	0.33	U
100-41-4	Ethylbenzene	0.82	2.5	0.82	0.36	U
179601-23-1	m,p-Xylenes	1.6	4.8	1.6	0.67	U
75-25-2	Bromoform	1.5	2.5	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.82	2.5	0.82	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.82	2.5	0.82	0.37	U
95-63-6	1,2,4-Trimethylbenzene	0.82	2.5	0.82	0.36	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	1.6	4.8	1.6	0.67	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00720

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 7.20

Container Dilution Factor: 1.98

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.5	2.6	1.6	0.64	
75-71-8	Dichlorodifluoromethane (CFC 12)	160	2.6	1.6	0.43	
74-87-3	Chloromethane	1.0	2.6	1.6	0.43	J
75-01-4	Vinyl Chloride	0.59	2.6	0.84	0.28	J
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.44	U
75-00-3	Chloroethane	0.46	2.6	1.6	0.33	J
64-17-5	Ethanol	3.4	26	4.1	1.8	J
67-64-1	Acetone	32	26	13	5.9	
75-69-4	Trichlorofluoromethane	17	2.5	1.6	0.40	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.1	5.0	3.1	1.1	U
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.74	U
76-13-1	Trichlorotrifluoroethane	5.2	2.6	0.84	0.38	
75-15-0	Carbon Disulfide	110	5.0	2.7	0.79	
75-34-3	1,1-Dichloroethane	1.6	2.7	1.6	0.39	U
78-93-3	2-Butanone (MEK)	11	5.0	1.6	0.54	
141-78-6	Ethyl Acetate	3.2	5.0	3.2	1.4	U
110-54-3	n-Hexane	9.7	2.6	1.6	0.54	
67-66-3	Chloroform	3.5	2.6	0.84	0.35	
109-99-9	Tetrahydrofuran (THF)	25	5.0	0.84	0.33	
107-06-2	1,2-Dichloroethane	0.84	2.6	0.84	0.29	U
71-43-2	Benzene	11	2.6	0.84	0.38	
56-23-5	Carbon Tetrachloride	1.5	2.5	0.84	0.37	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00720

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 7.20

Container Dilution Factor: 1.98

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.5	5.0	1.7	0.74	J
75-27-4	Bromodichloromethane	0.74	2.6	0.84	0.38	J
79-01-6	Trichloroethene	0.72	2.5	0.84	0.36	J
123-91-1	1,4-Dioxane	0.84	2.6	0.84	0.31	U
142-82-5	n-Heptane	14	2.6	1.6	0.42	
108-10-1	4-Methyl-2-pentanone	0.84	5.0	0.84	0.36	U
108-88-3	Toluene	36	2.6	0.84	0.32	
591-78-6	2-Hexanone	0.84	5.0	0.84	0.33	U
124-48-1	Dibromochloromethane	0.84	2.6	0.84	0.35	U
106-93-4	1,2-Dibromoethane	0.84	2.6	0.84	0.31	U
127-18-4	Tetrachloroethene	0.71	2.6	0.84	0.34	J
100-41-4	Ethylbenzene	5.9	2.6	0.84	0.37	
179601-23-1	m,p-Xylenes	25	5.0	1.7	0.69	
75-25-2	Bromoform	1.6	2.6	1.6	0.54	U
100-42-5	Styrene	1.6	2.6	1.6	0.43	U
95-47-6	o-Xylene	7.0	2.6	0.84	0.38	
108-67-8	1,3,5-Trimethylbenzene	1.8	2.6	0.84	0.38	J
95-63-6	1,2,4-Trimethylbenzene	5.9	2.6	0.84	0.37	
120-82-1	1,2,4-Trichlorobenzene	1.6	5.0	1.6	0.64	U
91-20-3	Naphthalene	0.88	2.6	1.5	0.64	J
1330-20-7	Xylenes, Total	32	5.0	1.7	0.69	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00744

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

Initial Pressure (psig): -3.10 Final Pressure (psig): 7.40

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	7.0	7.9	4.9	2.0	J
75-71-8	Dichlorodifluoromethane (CFC 12)	140	7.9	4.9	1.3	
74-87-3	Chloromethane	37	7.9	4.9	1.3	
75-01-4	Vinyl Chloride	8.1	8.1	2.6	0.87	
106-99-0	1,3-Butadiene	4.9	7.9	4.9	1.3	U
75-00-3	Chloroethane	6.2	7.9	4.9	1.0	J
64-17-5	Ethanol	13	81	13	5.7	U
67-64-1	Acetone	41	79	41	18	U
75-69-4	Trichlorofluoromethane	16	7.8	4.9	1.2	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.8	15	9.6	3.4	J
75-09-2	Methylene Chloride	4.9	7.9	4.9	2.3	U
76-13-1	Trichlorotrifluoroethane	4.0	8.1	2.6	1.2	J
75-15-0	Carbon Disulfide	260	15	8.3	2.4	
75-34-3	1,1-Dichloroethane	5.2	8.3	5.0	1.2	J
78-93-3	2-Butanone (MEK)	46	15	4.9	1.7	
141-78-6	Ethyl Acetate	9.9	15	9.9	4.3	U
110-54-3	n-Hexane	20	7.9	4.9	1.7	
67-66-3	Chloroform	1.3	8.1	2.6	1.1	J
109-99-9	Tetrahydrofuran (THF)	89	15	2.6	1.0	
107-06-2	1,2-Dichloroethane	2.0	7.9	2.6	0.90	J
71-43-2	Benzene	140	7.9	2.6	1.2	
56-23-5	Carbon Tetrachloride	2.6	7.8	2.6	1.1	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV123-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00744

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

Initial Pressure (psig): -3.10 Final Pressure (psig): 7.40

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>64</b>	15	5.2	2.3	
75-27-4	Bromodichloromethane	2.6	7.9	2.6	1.2	<b>U</b>
79-01-6	Trichloroethene	<b>13</b>	7.8	2.6	1.1	
123-91-1	1,4-Dioxane	2.6	7.9	2.6	0.96	<b>U</b>
142-82-5	n-Heptane	<b>20</b>	7.9	4.9	1.3	
108-10-1	4-Methyl-2-pentanone	2.6	15	2.6	1.1	<b>U</b>
108-88-3	Toluene	<b>500</b>	7.9	2.6	0.99	
591-78-6	2-Hexanone	2.6	15	2.6	1.0	<b>U</b>
124-48-1	Dibromochloromethane	2.6	7.9	2.6	1.1	<b>U</b>
106-93-4	1,2-Dibromoethane	2.6	7.9	2.6	0.95	<b>U</b>
127-18-4	Tetrachloroethene	<b>1.3</b>	7.9	2.6	1.1	<b>J</b>
100-41-4	Ethylbenzene	<b>31</b>	7.9	2.6	1.1	
179601-23-1	m,p-Xylenes	<b>62</b>	15	5.2	2.1	
75-25-2	Bromoform	4.9	8.1	4.9	1.7	<b>U</b>
100-42-5	Styrene	4.9	7.9	4.9	1.3	<b>U</b>
95-47-6	o-Xylene	<b>19</b>	8.1	2.6	1.2	
108-67-8	1,3,5-Trimethylbenzene	<b>2.9</b>	8.1	2.6	1.2	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>7.7</b>	7.9	2.6	1.1	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	4.9	15	4.9	2.0	<b>U</b>
91-20-3	Naphthalene	4.7	7.9	4.7	2.0	<b>U</b>
1330-20-7	Xylenes, Total	<b>81</b>	15	5.2	2.1	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00183

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -3.41 Final Pressure (psig): 7.29

Container Dilution Factor: 1.95

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.3	2.5	1.6	0.63	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	2.5	1.6	0.42	
74-87-3	Chloromethane	1.6	2.5	1.6	0.42	U
75-01-4	Vinyl Chloride	0.83	2.6	0.83	0.28	U
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.5	1.6	0.32	U
64-17-5	Ethanol	13	26	4.0	1.8	J
67-64-1	Acetone	15	25	13	5.9	J
75-69-4	Trichlorofluoromethane	1.2	2.5	1.6	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.4	4.9	3.1	1.1	J
75-09-2	Methylene Chloride	1.6	2.5	1.6	0.73	U
76-13-1	Trichlorotrifluoroethane	10	2.6	0.83	0.37	
75-15-0	Carbon Disulfide	85	4.9	2.6	0.78	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	3.7	4.9	1.6	0.54	J
141-78-6	Ethyl Acetate	3.2	4.9	3.2	1.4	U
110-54-3	n-Hexane	1.6	2.5	1.6	0.54	U
67-66-3	Chloroform	11	2.6	0.83	0.35	
109-99-9	Tetrahydrofuran (THF)	0.83	4.9	0.83	0.33	U
107-06-2	1,2-Dichloroethane	0.83	2.5	0.83	0.29	U
71-43-2	Benzene	0.83	2.5	0.83	0.38	J
56-23-5	Carbon Tetrachloride	4.9	2.5	0.83	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-014

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.025 Liter(s)

Container ID: 1SS00183

Initial Pressure (psig): -3.41 Final Pressure (psig): 7.29

Container Dilution Factor: 1.95

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	4.9	1.7	0.73	U
75-27-4	Bromodichloromethane	0.83	2.5	0.83	0.38	U
79-01-6	Trichloroethene	<b>4,100</b>	40	13	5.6	<b>D</b>
123-91-1	1,4-Dioxane	0.83	2.5	0.83	0.31	U
142-82-5	n-Heptane	1.6	2.5	1.6	0.41	U
108-10-1	4-Methyl-2-pentanone	0.83	4.9	0.83	0.36	U
108-88-3	Toluene	<b>1.7</b>	2.5	0.83	0.32	<b>J</b>
591-78-6	2-Hexanone	0.83	4.9	0.83	0.32	U
124-48-1	Dibromochloromethane	0.83	2.5	0.83	0.34	U
106-93-4	1,2-Dibromoethane	0.83	2.5	0.83	0.30	U
127-18-4	Tetrachloroethene	<b>19</b>	2.5	0.83	0.34	
100-41-4	Ethylbenzene	<b>0.42</b>	2.5	0.83	0.37	<b>J</b>
179601-23-1	m,p-Xylenes	<b>6.6</b>	4.9	1.7	0.68	
75-25-2	Bromoform	1.6	2.6	1.6	0.54	U
100-42-5	Styrene	<b>0.44</b>	2.5	1.6	0.42	<b>J</b>
95-47-6	o-Xylene	<b>5.5</b>	2.6	0.83	0.38	
108-67-8	1,3,5-Trimethylbenzene	<b>5.2</b>	2.6	0.83	0.38	
95-63-6	1,2,4-Trimethylbenzene	<b>11</b>	2.5	0.83	0.36	
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.63	U
91-20-3	Naphthalene	<b>0.74</b>	2.5	1.5	0.63	<b>J</b>
1330-20-7	Xylenes, Total	<b>12</b>	4.9	1.7	0.68	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00136

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -4.31 Final Pressure (psig): 8.00

Container Dilution Factor: 2.18

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.96</b>	2.8	1.7	0.71	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.0</b>	2.8	1.7	0.47	<b>J</b>
74-87-3	Chloromethane	1.7	2.8	1.7	0.47	<b>U</b>
75-01-4	Vinyl Chloride	0.93	2.9	0.93	0.31	<b>U</b>
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.48	<b>U</b>
75-00-3	Chloroethane	1.7	2.8	1.7	0.36	<b>U</b>
64-17-5	Ethanol	<b>11</b>	29	4.5	2.0	<b>J</b>
67-64-1	Acetone	<b>15</b>	28	15	6.5	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.93</b>	2.8	1.7	0.44	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>1.4</b>	5.5	3.4	1.2	<b>J</b>
75-09-2	Methylene Chloride	<b>0.88</b>	2.8	1.7	0.82	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>8.9</b>	2.9	0.93	0.41	
75-15-0	Carbon Disulfide	<b>5.3</b>	5.5	2.9	0.87	<b>J</b>
75-34-3	1,1-Dichloroethane	1.8	2.9	1.8	0.43	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.8</b>	5.5	1.7	0.60	<b>J</b>
141-78-6	Ethyl Acetate	3.5	5.5	3.5	1.5	<b>U</b>
110-54-3	n-Hexane	1.7	2.8	1.7	0.60	<b>U</b>
67-66-3	Chloroform	<b>10</b>	2.9	0.93	0.39	
109-99-9	Tetrahydrofuran (THF)	<b>1.4</b>	5.5	0.93	0.37	<b>J</b>
107-06-2	1,2-Dichloroethane	0.93	2.8	0.93	0.32	<b>U</b>
71-43-2	Benzene	<b>4.4</b>	2.8	0.93	0.42	
56-23-5	Carbon Tetrachloride	<b>4.9</b>	2.8	0.93	0.40	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00136

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -4.31 Final Pressure (psig): 8.00

Container Dilution Factor: 2.18

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.9	5.5	1.9	0.82	U
75-27-4	Bromodichloromethane	0.93	2.8	0.93	0.42	U
79-01-6	Trichloroethene	<b>3,900</b>	44	15	6.3	<b>D</b>
123-91-1	1,4-Dioxane	0.93	2.8	0.93	0.34	U
142-82-5	n-Heptane	1.7	2.8	1.7	0.46	U
108-10-1	4-Methyl-2-pentanone	0.93	5.5	0.93	0.40	U
108-88-3	Toluene	<b>1.1</b>	2.8	0.93	0.35	<b>J</b>
591-78-6	2-Hexanone	0.93	5.5	0.93	0.36	U
124-48-1	Dibromochloromethane	0.93	2.8	0.93	0.38	U
106-93-4	1,2-Dibromoethane	0.93	2.8	0.93	0.34	U
127-18-4	Tetrachloroethene	<b>16</b>	2.8	0.93	0.38	
100-41-4	Ethylbenzene	0.93	2.8	0.93	0.41	U
179601-23-1	m,p-Xylenes	<b>1.8</b>	5.5	1.9	0.76	<b>J</b>
75-25-2	Bromoform	1.7	2.9	1.7	0.60	U
100-42-5	Styrene	1.7	2.8	1.7	0.47	U
95-47-6	o-Xylene	<b>1.3</b>	2.9	0.93	0.42	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>1.0</b>	2.9	0.93	0.42	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>2.1</b>	2.8	0.93	0.40	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.7	5.5	1.7	0.71	U
91-20-3	Naphthalene	1.7	2.8	1.7	0.71	U
1330-20-7	Xylenes, Total	<b>3.1</b>	5.5	1.9	0.76	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-175-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00546

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

0.0050 Liter(s)

Initial Pressure (psig): -3.38 Final Pressure (psig): 8.48

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	5.2	8.5	5.2	2.1	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3.7	8.5	5.2	1.4	J
74-87-3	Chloromethane	5.2	8.5	5.2	1.4	U
75-01-4	Vinyl Chloride	2.8	8.7	2.8	0.93	U
106-99-0	1,3-Butadiene	5.2	8.5	5.2	1.4	U
75-00-3	Chloroethane	5.2	8.5	5.2	1.1	U
64-17-5	Ethanol	7.7	87	14	6.1	J
67-64-1	Acetone	44	85	44	20	U
75-69-4	Trichlorofluoromethane	1.8	8.4	5.2	1.3	J
67-63-0	2-Propanol (Isopropyl Alcohol)	10	16	10	3.6	U
75-09-2	Methylene Chloride	5.2	8.5	5.2	2.5	U
76-13-1	Trichlorotrifluoroethane	29	8.7	2.8	1.2	
75-15-0	Carbon Disulfide	7.8	16	8.9	2.6	J
75-34-3	1,1-Dichloroethane	5.4	8.9	5.4	1.3	U
78-93-3	2-Butanone (MEK)	5.2	16	5.2	1.8	U
141-78-6	Ethyl Acetate	7.9	16	11	4.6	J
110-54-3	n-Hexane	5.2	8.5	5.2	1.8	U
67-66-3	Chloroform	21	8.7	2.8	1.2	
109-99-9	Tetrahydrofuran (THF)	4.7	16	2.8	1.1	J
107-06-2	1,2-Dichloroethane	2.8	8.5	2.8	0.97	U
71-43-2	Benzene	2.8	8.5	2.8	1.3	U
56-23-5	Carbon Tetrachloride	22	8.4	2.8	1.2	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-175-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00546

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

0.0050 Liter(s)

Initial Pressure (psig): -3.38 Final Pressure (psig): 8.48

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	5.6	16	5.6	2.5	U
75-27-4	Bromodichloromethane	2.8	8.5	2.8	1.3	U
79-01-6	Trichloroethene	<b>22,000</b>	210	70	30	D
123-91-1	1,4-Dioxane	2.8	8.5	2.8	1.0	U
142-82-5	n-Heptane	5.2	8.5	5.2	1.4	U
108-10-1	4-Methyl-2-pentanone	2.8	16	2.8	1.2	U
108-88-3	Toluene	2.8	8.5	2.8	1.1	U
591-78-6	2-Hexanone	2.8	16	2.8	1.1	U
124-48-1	Dibromochloromethane	2.8	8.5	2.8	1.1	U
106-93-4	1,2-Dibromoethane	2.8	8.5	2.8	1.0	U
127-18-4	Tetrachloroethene	<b>59</b>	8.5	2.8	1.1	
100-41-4	Ethylbenzene	2.8	8.5	2.8	1.2	U
179601-23-1	m,p-Xylenes	5.6	16	5.6	2.3	U
75-25-2	Bromoform	5.2	8.7	5.2	1.8	U
100-42-5	Styrene	5.2	8.5	5.2	1.4	U
95-47-6	o-Xylene	<b>1.3</b>	8.7	2.8	1.3	J
108-67-8	1,3,5-Trimethylbenzene	<b>1.3</b>	8.7	2.8	1.3	J
95-63-6	1,2,4-Trimethylbenzene	<b>2.4</b>	8.5	2.8	1.2	J
120-82-1	1,2,4-Trichlorobenzene	5.2	16	5.2	2.1	U
91-20-3	Naphthalene	5.1	8.5	5.1	2.1	U
1330-20-7	Xylenes, Total	5.6	16	5.6	2.3	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00543

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

0.015 Liter(s)

Initial Pressure (psig): -3.38 Final Pressure (psig): 8.16

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	5.2	8.4	5.2	2.1	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.6	8.4	5.2	1.4	J
74-87-3	Chloromethane	5.2	8.4	5.2	1.4	U
75-01-4	Vinyl Chloride	2.7	8.6	2.7	0.92	U
106-99-0	1,3-Butadiene	5.2	8.4	5.2	1.4	U
75-00-3	Chloroethane	5.2	8.4	5.2	1.1	U
64-17-5	Ethanol	6.8	86	13	6.0	J
67-64-1	Acetone	44	84	44	19	U
75-69-4	Trichlorofluoromethane	5.2	8.2	5.2	1.3	U
67-63-0	2-Propanol (Isopropyl Alcohol)	10	16	10	3.6	U
75-09-2	Methylene Chloride	5.2	8.4	5.2	2.4	U
76-13-1	Trichlorotrifluoroethane	12	8.6	2.7	1.2	
75-15-0	Carbon Disulfide	4.6	16	8.7	2.6	J
75-34-3	1,1-Dichloroethane	5.3	8.7	5.3	1.3	U
78-93-3	2-Butanone (MEK)	15	16	5.2	1.8	J
141-78-6	Ethyl Acetate	11	16	11	4.5	U
110-54-3	n-Hexane	5.2	8.4	5.2	1.8	U
67-66-3	Chloroform	22	8.6	2.7	1.1	
109-99-9	Tetrahydrofuran (THF)	440	16	2.7	1.1	
107-06-2	1,2-Dichloroethane	2.7	8.4	2.7	0.95	U
71-43-2	Benzene	2.7	8.4	2.7	1.2	U
56-23-5	Carbon Tetrachloride	11	8.2	2.7	1.2	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00543

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.125 Liter(s)

0.015 Liter(s)

Initial Pressure (psig): -3.38 Final Pressure (psig): 8.16

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	5.5	16	5.5	2.4	U
75-27-4	Bromodichloromethane	2.7	8.4	2.7	1.2	U
79-01-6	Trichloroethene	<b>12,000</b>	69	23	9.7	D
123-91-1	1,4-Dioxane	2.7	8.4	2.7	1.0	U
142-82-5	n-Heptane	5.2	8.4	5.2	1.4	U
108-10-1	4-Methyl-2-pentanone	2.7	16	2.7	1.2	U
108-88-3	Toluene	<b>2.0</b>	8.4	2.7	1.1	J
591-78-6	2-Hexanone	2.7	16	2.7	1.1	U
124-48-1	Dibromochloromethane	2.7	8.4	2.7	1.1	U
106-93-4	1,2-Dibromoethane	2.7	8.4	2.7	1.0	U
127-18-4	Tetrachloroethene	<b>22</b>	8.4	2.7	1.1	
100-41-4	Ethylbenzene	2.7	8.4	2.7	1.2	U
179601-23-1	m,p-Xylenes	5.5	16	5.5	2.3	U
75-25-2	Bromoform	5.2	8.6	5.2	1.8	U
100-42-5	Styrene	5.2	8.4	5.2	1.4	U
95-47-6	o-Xylene	2.7	8.6	2.7	1.2	U
108-67-8	1,3,5-Trimethylbenzene	2.7	8.6	2.7	1.2	U
95-63-6	1,2,4-Trimethylbenzene	<b>1.4</b>	8.4	2.7	1.2	J
120-82-1	1,2,4-Trichlorobenzene	5.2	16	5.2	2.1	U
91-20-3	Naphthalene	5.0	8.4	5.0	2.1	U
1330-20-7	Xylenes, Total	5.5	16	5.5	2.3	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00593

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.99 Final Pressure (psig): 7.93

Container Dilution Factor: 2.11

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.2	2.7	1.7	0.69	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.7	2.7	1.7	0.46	U
74-87-3	Chloromethane	1.7	2.7	1.7	0.45	U
75-01-4	Vinyl Chloride	0.90	2.8	0.90	0.30	U
106-99-0	1,3-Butadiene	1.7	2.7	1.7	0.46	U
75-00-3	Chloroethane	1.7	2.7	1.7	0.35	U
64-17-5	Ethanol	27	28	4.4	2.0	J
67-64-1	Acetone	14	27	14	6.3	U
75-69-4	Trichlorofluoromethane	1.7	2.7	1.7	0.43	U
67-63-0	2-Propanol (Isopropyl Alcohol)	3.3	5.3	3.3	1.2	U
75-09-2	Methylene Chloride	1.7	2.7	1.7	0.79	U
76-13-1	Trichlorotrifluoroethane	1.1	2.8	0.90	0.40	J
75-15-0	Carbon Disulfide	8.3	5.3	2.8	0.84	
75-34-3	1,1-Dichloroethane	1.7	2.8	1.7	0.41	U
78-93-3	2-Butanone (MEK)	1.9	5.3	1.7	0.58	J
141-78-6	Ethyl Acetate	3.4	5.3	3.4	1.5	U
110-54-3	n-Hexane	1.7	2.7	1.7	0.58	U
67-66-3	Chloroform	8.7	2.8	0.90	0.37	
109-99-9	Tetrahydrofuran (THF)	8.2	5.3	0.90	0.35	
107-06-2	1,2-Dichloroethane	0.90	2.7	0.90	0.31	U
71-43-2	Benzene	5.8	2.7	0.90	0.41	
56-23-5	Carbon Tetrachloride	1.6	2.7	0.90	0.39	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00593

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.99 Final Pressure (psig): 7.93

Container Dilution Factor: 2.11

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.8	5.3	1.8	0.79	U
75-27-4	Bromodichloromethane	0.90	2.7	0.90	0.41	U
79-01-6	Trichloroethene	<b>880</b>	27	9.0	3.8	D
123-91-1	1,4-Dioxane	0.90	2.7	0.90	0.33	U
142-82-5	n-Heptane	1.7	2.7	1.7	0.45	U
108-10-1	4-Methyl-2-pentanone	0.90	5.3	0.90	0.39	U
108-88-3	Toluene	<b>2.2</b>	2.7	0.90	0.34	J
591-78-6	2-Hexanone	0.90	5.3	0.90	0.35	U
124-48-1	Dibromochloromethane	0.90	2.7	0.90	0.37	U
106-93-4	1,2-Dibromoethane	0.90	2.7	0.90	0.33	U
127-18-4	Tetrachloroethene	<b>3.0</b>	2.7	0.90	0.36	
100-41-4	Ethylbenzene	0.90	2.7	0.90	0.40	U
179601-23-1	m,p-Xylenes	<b>2.3</b>	5.3	1.8	0.74	J
75-25-2	Bromoform	1.7	2.8	1.7	0.58	U
100-42-5	Styrene	1.7	2.7	1.7	0.45	U
95-47-6	o-Xylene	<b>1.3</b>	2.8	0.90	0.41	J
108-67-8	1,3,5-Trimethylbenzene	<b>1.1</b>	2.8	0.90	0.41	J
95-63-6	1,2,4-Trimethylbenzene	<b>2.4</b>	2.7	0.90	0.39	J
120-82-1	1,2,4-Trichlorobenzene	1.7	5.3	1.7	0.69	U
91-20-3	Naphthalene	1.6	2.7	1.6	0.69	U
1330-20-7	Xylenes, Total	<b>3.6</b>	5.3	1.8	0.74	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01037

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.81 Final Pressure (psig): 8.00

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.5	2.5	1.5	0.62	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.5	2.5	1.5	0.42	U
74-87-3	Chloromethane	19	2.5	1.5	0.41	
75-01-4	Vinyl Chloride	6.3	2.5	0.81	0.27	
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	4.8	2.5	1.5	0.32	
64-17-5	Ethanol	11	25	4.0	1.8	J
67-64-1	Acetone	30	25	13	5.7	
75-69-4	Trichlorofluoromethane	1.5	2.4	1.5	0.39	U
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	1.0	2.5	0.81	0.36	J
75-15-0	Carbon Disulfide	38	4.8	2.6	0.76	
75-34-3	1,1-Dichloroethane	4.0	2.6	1.6	0.37	
78-93-3	2-Butanone (MEK)	16	4.8	1.5	0.53	
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	1.1	2.5	1.5	0.53	J
67-66-3	Chloroform	1.6	2.5	0.81	0.34	J
109-99-9	Tetrahydrofuran (THF)	47	4.8	0.81	0.32	
107-06-2	1,2-Dichloroethane	1.5	2.5	0.81	0.28	J
71-43-2	Benzene	2.0	2.5	0.81	0.37	J
56-23-5	Carbon Tetrachloride	1.1	2.4	0.81	0.35	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV132-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01037

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.81 Final Pressure (psig): 8.00

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.72	U
75-27-4	Bromodichloromethane	0.81	2.5	0.81	0.37	U
79-01-6	Trichloroethene	<b>950</b>	24	8.1	3.4	<b>D</b>
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	<b>0.62</b>	2.5	1.5	0.41	<b>J</b>
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	U
108-88-3	Toluene	<b>12</b>	2.5	0.81	0.31	
591-78-6	2-Hexanone	0.81	4.8	0.81	0.32	U
124-48-1	Dibromochloromethane	0.81	2.5	0.81	0.33	U
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.30	U
127-18-4	Tetrachloroethene	<b>2.3</b>	2.5	0.81	0.33	<b>J</b>
100-41-4	Ethylbenzene	0.81	2.5	0.81	0.36	U
179601-23-1	m,p-Xylenes	<b>1.6</b>	4.8	1.6	0.67	<b>J</b>
75-25-2	Bromoform	1.5	2.5	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	<b>0.85</b>	2.5	0.81	0.37	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.96</b>	2.5	0.81	0.37	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>2.1</b>	2.5	0.81	0.35	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	<b>2.4</b>	4.8	1.6	0.67	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00932

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 7.80

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.60	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>1.6</b>	2.4	1.5	0.40	J
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	0.79	2.5	0.79	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	<b>48</b>	25	3.8	1.7	J
67-64-1	Acetone	<b>8.2</b>	24	12	5.6	J
75-69-4	Trichlorofluoromethane	<b>0.71</b>	2.4	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	<b>0.44</b>	2.5	0.79	0.35	J
75-15-0	Carbon Disulfide	2.5	4.6	2.5	0.74	U
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	1.5	4.6	1.5	0.51	U
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U
110-54-3	n-Hexane	1.5	2.4	1.5	0.51	U
67-66-3	Chloroform	0.79	2.5	0.79	0.33	U
109-99-9	Tetrahydrofuran (THF)	0.79	4.6	0.79	0.31	U
107-06-2	1,2-Dichloroethane	0.79	2.4	0.79	0.27	U
71-43-2	Benzene	0.79	2.4	0.79	0.36	U
56-23-5	Carbon Tetrachloride	0.79	2.4	0.79	0.34	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV134-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-020

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00932

Initial Pressure (psig): -2.54 Final Pressure (psig): 7.80

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.6	1.6	0.69	U
75-27-4	Bromodichloromethane	0.79	2.4	0.79	0.36	U
79-01-6	Trichloroethene	<b>5.9</b>	2.4	0.79	0.33	
123-91-1	1,4-Dioxane	0.79	2.4	0.79	0.29	U
142-82-5	n-Heptane	1.5	2.4	1.5	0.39	U
108-10-1	4-Methyl-2-pentanone	0.79	4.6	0.79	0.34	U
108-88-3	Toluene	<b>0.40</b>	2.4	0.79	0.30	J
591-78-6	2-Hexanone	0.79	4.6	0.79	0.31	U
124-48-1	Dibromochloromethane	0.79	2.4	0.79	0.32	U
106-93-4	1,2-Dibromoethane	0.79	2.4	0.79	0.29	U
127-18-4	Tetrachloroethene	0.79	2.4	0.79	0.32	U
100-41-4	Ethylbenzene	0.79	2.4	0.79	0.35	U
179601-23-1	m,p-Xylenes	<b>0.67</b>	4.6	1.6	0.65	J
75-25-2	Bromoform	1.5	2.5	1.5	0.51	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	<b>0.36</b>	2.5	0.79	0.36	J
108-67-8	1,3,5-Trimethylbenzene	0.79	2.5	0.79	0.36	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.78</b>	2.4	0.79	0.34	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.60	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.60	U
1330-20-7	Xylenes, Total	<b>1.0</b>	4.6	1.6	0.65	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U, L
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201104-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201104-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date(s) Collected: 10/12/20

Analyst: Wida Ang

Date(s) Received: 10/19/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 11/3 - 11/5/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201103-MB	99	101	100	70-130	
Method Blank	P201104-MB	94	104	105	70-130	
Lab Control Sample	P201103-LCS	103	99	95	70-130	
Lab Control Sample	P201104-LCS	96	104	105	70-130	
Duplicate Lab Control Sample	P201103-DLCS	101	99	96	70-130	
Duplicate Lab Control Sample	P201104-DLCS	95	104	105	70-130	
SV121-450-204	P2005895-001	100	101	97	70-130	
SV122-025-204	P2005895-002	101	101	100	70-130	
SV122-050-204	P2005895-003	101	100	101	70-130	
SV122-150-204	P2005895-004	98	102	105	70-130	
SV122-250-204	P2005895-005	99	99	107	70-130	
SV122-350-204	P2005895-006	95	106	108	70-130	
SV122-450-204	P2005895-007	94	102	108	70-130	
SV122-450-204	P2005895-007DUP	94	102	109	70-130	
SV123-025-204	P2005895-008	96	101	107	70-130	
SV123-050-204	P2005895-009	93	105	109	70-130	
SV123-150-204	P2005895-010	95	101	107	70-130	
SV123-250-204	P2005895-011	95	98	103	70-130	
SV123-350-204	P2005895-012	94	98	105	70-130	
SV123-450-204	P2005895-013	95	102	108	70-130	
SV132-025-204	P2005895-014	101	102	108	70-130	
SV132-050-204	P2005895-015	96	99	105	70-130	
SV132-175-204	P2005895-016	96	102	108	70-130	
SV132-250-204	P2005895-017	95	102	107	70-130	
SV132-350-204	P2005895-018	97	101	109	70-130	
SV132-450-204	P2005895-019	94	101	107	70-130	
SV134-025-204	P2005895-020	95	104	108	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier	
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD		RPD Limit
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$						
115-07-1	Propene	210	193	189		<b>92</b>	<b>90</b>	57-136	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	178	174		<b>85</b>	<b>83</b>	59-128	2	25	
74-87-3	Chloromethane	206	219	197		<b>106</b>	<b>96</b>	59-132	10	25	
75-01-4	Vinyl Chloride	208	225	218		<b>108</b>	<b>105</b>	64-127	3	25	
106-99-0	1,3-Butadiene	210	219	214		<b>104</b>	<b>102</b>	66-134	2	25	
75-00-3	Chloroethane	204	193	186		<b>95</b>	<b>91</b>	63-127	4	25	
64-17-5	Ethanol	998	890	867		<b>89</b>	<b>87</b>	59-125	2	25	
67-64-1	Acetone	1,030	928	905		<b>90</b>	<b>88</b>	58-128	2	25	
75-69-4	Trichlorofluoromethane	204	167	163		<b>82</b>	<b>80</b>	62-126	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	420	408		<b>103</b>	<b>100</b>	52-125	3	25	
75-09-2	Methylene Chloride	208	188	184		<b>90</b>	<b>88</b>	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	214	180	177		<b>84</b>	<b>83</b>	66-126	1	25	
75-15-0	Carbon Disulfide	428	359	351		<b>84</b>	<b>82</b>	57-134	2	25	
75-34-3	1,1-Dichloroethane	212	190	186		<b>90</b>	<b>88</b>	68-126	2	25	
78-93-3	2-Butanone (MEK)	412	428	420		<b>104</b>	<b>102</b>	67-130	2	25	
141-78-6	Ethyl Acetate	422	567	553		<b>134</b>	<b>131</b>	65-128	2	25	<b>L</b>
110-54-3	n-Hexane	212	197	193		<b>93</b>	<b>91</b>	63-120	2	25	
67-66-3	Chloroform	214	179	176		<b>84</b>	<b>82</b>	68-123	2	25	
109-99-9	Tetrahydrofuran (THF)	400	361	350		<b>90</b>	<b>88</b>	64-123	2	25	
107-06-2	1,2-Dichloroethane	208	191	186		<b>92</b>	<b>89</b>	65-128	3	25	
71-43-2	Benzene	204	177	176		<b>87</b>	<b>86</b>	69-119	1	25	
56-23-5	Carbon Tetrachloride	210	159	157		<b>76</b>	<b>75</b>	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.  
 L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	362	359	87	86	70-117	1	25	
75-27-4	Bromodichloromethane	210	181	179	86	85	72-128	1	25	
79-01-6	Trichloroethene	206	174	172	84	83	71-123	1	25	
123-91-1	1,4-Dioxane	208	200	199	96	96	71-122	0	25	
142-82-5	n-Heptane	210	189	187	90	89	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	416	426	423	102	102	67-130	0	25	
108-88-3	Toluene	206	170	170	83	83	66-119	0	25	
591-78-6	2-Hexanone	404	443	440	110	109	62-128	0.9	25	
124-48-1	Dibromochloromethane	210	180	180	86	86	70-130	0	25	
106-93-4	1,2-Dibromoethane	208	189	188	91	90	74-122	1	25	
127-18-4	Tetrachloroethene	206	163	164	79	80	66-124	1	25	
100-41-4	Ethylbenzene	206	175	175	85	85	70-124	0	25	
179601-23-1	m,p-Xylenes	412	339	338	82	82	61-134	0	25	
75-25-2	Bromoform	208	179	180	86	87	66-139	1	25	
100-42-5	Styrene	206	189	189	92	92	73-127	0	25	
95-47-6	o-Xylene	206	174	174	84	84	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	206	165	165	80	80	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	204	174	174	85	85	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	388	320	321	82	83	55-142	1	25	
91-20-3	Naphthalene	198	171	172	86	87	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201104-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	210	160	160		76	76	57-136	0	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	159	157		76	75	59-128	1	25	
74-87-3	Chloromethane	206	167	168		81	82	59-132	1	25	
75-01-4	Vinyl Chloride	208	175	176		84	85	64-127	1	25	
106-99-0	1,3-Butadiene	210	185	183		88	87	66-134	1	25	
75-00-3	Chloroethane	204	164	163		80	80	63-127	0	25	
64-17-5	Ethanol	998	726	729		73	73	59-125	0	25	
67-64-1	Acetone	1,030	793	790		77	77	58-128	0	25	
75-69-4	Trichlorofluoromethane	204	150	149		74	73	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	342	343		84	84	52-125	0	25	
75-09-2	Methylene Chloride	208	167	166		80	80	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	214	171	169		80	79	66-126	1	25	
75-15-0	Carbon Disulfide	428	314	312		73	73	57-134	0	25	
75-34-3	1,1-Dichloroethane	212	164	163		77	77	68-126	0	25	
78-93-3	2-Butanone (MEK)	412	377	374		92	91	67-130	1	25	
141-78-6	Ethyl Acetate	422	483	482		114	114	65-128	0	25	
110-54-3	n-Hexane	212	168	167		79	79	63-120	0	25	
67-66-3	Chloroform	214	160	159		75	74	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	400	316	314		79	79	64-123	0	25	
107-06-2	1,2-Dichloroethane	208	166	165		80	79	65-128	1	25	
71-43-2	Benzene	204	160	160		78	78	69-119	0	25	
56-23-5	Carbon Tetrachloride	210	149	148		71	70	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895  
 ALS Sample ID: P201104-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	331	332		<b>80</b>	<b>80</b>	70-117	0	25
75-27-4	Bromodichloromethane	210	164	164		<b>78</b>	<b>78</b>	72-128	0	25
79-01-6	Trichloroethene	206	165	165		<b>80</b>	<b>80</b>	71-123	0	25
123-91-1	1,4-Dioxane	208	183	183		<b>88</b>	<b>88</b>	71-122	0	25
142-82-5	n-Heptane	210	169	176		<b>80</b>	<b>84</b>	69-123	5	25
108-10-1	4-Methyl-2-pentanone	416	372	413		<b>89</b>	<b>99</b>	67-130	11	25
108-88-3	Toluene	206	169	169		<b>82</b>	<b>82</b>	66-119	0	25
591-78-6	2-Hexanone	404	422	435		<b>104</b>	<b>108</b>	62-128	4	25
124-48-1	Dibromochloromethane	210	180	180		<b>86</b>	<b>86</b>	70-130	0	25
106-93-4	1,2-Dibromoethane	208	181	187		<b>87</b>	<b>90</b>	74-122	3	25
127-18-4	Tetrachloroethene	206	165	163		<b>80</b>	<b>79</b>	66-124	1	25
100-41-4	Ethylbenzene	206	167	166		<b>81</b>	<b>81</b>	70-124	0	25
179601-23-1	m,p-Xylenes	412	322	320		<b>78</b>	<b>78</b>	61-134	0	25
75-25-2	Bromoform	208	182	180		<b>88</b>	<b>87</b>	66-139	1	25
100-42-5	Styrene	206	182	181		<b>88</b>	<b>88</b>	73-127	0	25
95-47-6	o-Xylene	206	165	164		<b>80</b>	<b>80</b>	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	206	160	158		<b>78</b>	<b>77</b>	67-130	1	25
95-63-6	1,2,4-Trimethylbenzene	204	168	167		<b>82</b>	<b>82</b>	66-132	0	25
120-82-1	1,2,4-Trichlorobenzene	388	326	326		<b>84</b>	<b>84</b>	55-142	0	25
91-20-3	Naphthalene	198	169	171		<b>85</b>	<b>86</b>	57-138	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-007DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00446

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -2.84

Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

Compound	Sample Result µg/m <sup>3</sup>	Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
		Sample Result µg/m <sup>3</sup>	Sample Result µg/m <sup>3</sup>				
Propene	8.5	ND	ND	-	-	25	
Dichlorodifluoromethane (CFC 12)	51	52	52	51.5	2	25	
Chloromethane	46	47	47	46.5	2	25	
Vinyl Chloride	8.1	8.2	8.2	8.15	1	25	J
1,3-Butadiene	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	-	-	25	
Ethanol	ND	ND	ND	-	-	25	
Acetone	ND	ND	ND	-	-	25	
Trichlorofluoromethane	ND	ND	ND	-	-	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	-	-	25	
Methylene Chloride	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	-	-	25	
Carbon Disulfide	210	220	220	215	5	25	
1,1-Dichloroethane	ND	ND	ND	-	-	25	
2-Butanone (MEK)	31	29	29	30	7	25	J
Ethyl Acetate	ND	ND	ND	-	-	25	
n-Hexane	31	33	33	32	6	25	
Chloroform	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	140	140	140	140	0	25	
1,2-Dichloroethane	ND	ND	ND	-	-	25	
Benzene	150	150	150	150	0	25	
Carbon Tetrachloride	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV122-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005895

ALS Sample ID: P2005895-007DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00446

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.030 Liter(s)

Initial Pressure (psig): -2.84

Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

Compound	Sample Result µg/m <sup>3</sup>	Duplicate Sample Result µg/m <sup>3</sup>	Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
Cyclohexane	53	55	54	4	25	J
Bromodichloromethane	ND	ND	-	-	25	
Trichloroethene	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	-	-	25	
n-Heptane	ND	7.4	-	-	25	J
4-Methyl-2-pentanone	ND	ND	-	-	25	
Toluene	510	530	520	4	25	
2-Hexanone	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	-	-	25	
Ethylbenzene	26	26	26	0	25	J
m,p-Xylenes	42	44	43	5	25	J
Bromoform	ND	ND	-	-	25	
Styrene	ND	ND	-	-	25	
o-Xylene	15	14	14.5	7	25	J
1,3,5-Trimethylbenzene	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	-	-	25	
Naphthalene	ND	ND	-	-	25	
Xylenes, Total	58	59	58.5	2	25	J

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005895  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 11032001.D  
Analyst: Wida Ang Date Analyzed: 11/3/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 20:36  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	121885	11.20	528306	13.32	245729	17.63
<b>Upper Limit</b>	170639	11.53	739628	13.65	344021	17.96
<b>Lower Limit</b>	73131	10.87	316984	12.99	147437	17.30

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	115183	11.18	504763	13.31	226880	17.63
02	Lab Control Sample	117503	11.20	519245	13.32	239038	17.63
03	Duplicate Lab Control Sample	119205	11.20	522232	13.32	238462	17.63
04	SV121-450-204	131196	11.19	569116	13.31	254124	17.63
05	SV122-025-204	115546	11.18	514089	13.31	231777	17.63
06	SV122-050-204	123477	11.18	542641	13.31	245274	17.63
07	SV122-150-204	115640	11.18	515071	13.31	228056	17.63
08	SV122-250-204	117695	11.18	508398	13.31	228297	17.63
09	SV122-350-204	114424	11.18	500100	13.31	221941	17.63
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005895  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 11042001.D  
Analyst: Wida Ang Date Analyzed: 11/4/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 17:19  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	114942	11.20	499860	13.32	221196	17.63
<b>Upper Limit</b>	160919	11.53	699804	13.65	309674	17.96
<b>Lower Limit</b>	68965	10.87	299916	12.99	132718	17.30

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
Client Sample ID		AREA #	RT #	AREA #
01	Method Blank	108042	11.18	470758
02	Lab Control Sample	114854	11.20	500387
03	Duplicate Lab Control Sample	117181	11.20	506429
04	SV122-450-204	129997	11.18	558467
05	SV122-450-204 (Lab Duplicate)	124474	11.19	536755
06	SV123-025-204	114968	11.18	502889
07	SV123-050-204	115960	11.19	495416
08	SV123-150-204	115321	11.18	515902
09	SV123-250-204	115438	11.18	509474
10	SV123-350-204	116809	11.18	504079
11	SV123-450-204	115089	11.19	507684
12	SV132-025-204	117105	11.18	511082
13	SV132-050-204	116592	11.18	507923
14	SV132-175-204	115286	11.18	501425
15	SV132-250-204	116082	11.18	508068
16	SV132-350-204	116442	11.18	507999
17	SV132-450-204	118096	11.18	504371
18	SV134-025-204	115586	11.18	509045
19	SV123-050-204 (Dilution)	123717	11.18	539730
20	SV132-025-204 (Dilution)	123040	11.18	538009

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005895  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Lab File ID: 11042001.D  
Analyst: Wida Ang Date Analyzed: 11/4/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 17:19  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	114942	11.20	499860	13.32	221196	17.63
<b>Upper Limit</b>	160919	11.53	699804	13.65	309674	17.96
<b>Lower Limit</b>	68965	10.87	299916	12.99	132718	17.30

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
21	SV132-050-204 (Dilution)	122433	11.18	528832	13.31	244511	17.63
22	SV132-250-204 (Dilution)	122480	11.18	540809	13.31	249307	17.63
23	SV132-350-204 (Dilution)	122442	11.18	528221	13.31	248984	17.63
24	SV132-450-204 (Dilution)	120464	11.18	520619	13.31	233843	17.63
25	SV132-175-204 (Dilution)	114021	11.18	490303	13.31	214803	17.63
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

IS1 (BCM) = Bromochloromethane

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AREA UPPER LIMIT = 140% of internal standard area

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# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



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## LABORATORY REPORT

November 5, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 19, 2020. For your reference, these analyses have been assigned our service request number P2005896.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

By Sue Anderson at 5:32 pm, Nov 05, 2020

For Kate Kaneko  
Project Manager

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[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2005896

## CASE NARRATIVE

The samples were received intact under chain of custody on October 19, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The reporting limits have been elevated for sample SV134-450-204 (P2005896-006). The chromatogram indicated the presence of non-target background components; therefore, the sample was diluted in order to prevent damage to the instrument and to achieve optimal resolution of the target analytes.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2005896-002, 014, 016, 017	Ethanol
P2005896-005, 012, 013	Propene

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

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RIGHT SOLUTIONS | RIGHT PARTNER

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2005896

Date Received: 10/19/2020  
 Time Received: 09:30

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	2nd Pi (psig)	2nd Pf (psig)	TO-15 - VOC Cans
SV134-050-204	P2005896-001	Air	10/12/2020	13:15	1SC00915	-3.20	7.39			X
SV134-170-204	P2005896-002	Air	10/12/2020	13:18	1SS00525	-2.73	7.47	0.01	7.24	X
SV134-250-204	P2005896-003	Air	10/12/2020	13:21	1SS00854	-4.21	7.50			X
SV134-350-204	P2005896-004	Air	10/12/2020	13:25	1SS00121	-2.58	7.53	0.10	6.61	X
SV134-350-604	P2005896-005	Air	10/12/2020	13:25	1SC00036	-0.03	7.97			X
SV134-450-204	P2005896-006	Air	10/12/2020	13:34	1SC00776	-3.19	7.60	0.15	4.51	X
SV135-025-204	P2005896-007	Air	10/12/2020	10:46	1SS00055	-2.16	7.51			X
SV135-050-204	P2005896-008	Air	10/12/2020	10:50	1SS00841	-4.30	7.35			X
SV135-150-204	P2005896-009	Air	10/12/2020	10:53	1SC00723	-3.29	7.30			X
SV135-250-604	P2005896-010	Air	10/12/2020	10:56	1SS00128	-3.49	7.23	0.02	6.62	X
SV135-250-204	P2005896-011	Air	10/12/2020	10:56	1SS00999	-2.57	7.43			X
SV135-350-204	P2005896-012	Air	10/12/2020	11:01	1SS00779	-2.28	7.70	0.04	7.11	X
SV135-450-204	P2005896-013	Air	10/12/2020	11:09	1SC00173	-2.88	7.70			X
SV137-025-204	P2005896-014	Air	10/12/2020	09:45	1SS00093	-3.02	7.88	0.47	6.84	X
SV137-050-204	P2005896-015	Air	10/12/2020	09:48	1SS00091	-3.04	7.30	0.03	5.72	X
SV137-150-204	P2005896-016	Air	10/12/2020	09:52	1SC01025	-2.43	7.23			X
SV137-250-204	P2005896-017	Air	10/12/2020	09:56	1SS00767	-3.55	7.38			X
SV137-350-204	P2005896-018	Air	10/12/2020	10:00	1SC00649	-2.49	7.50			X
SV137-450-204	P2005896-019	Air	10/12/2020	10:08	1SS00083	-5.61	7.37			X
SV139-025-204	P2005896-020	Air	10/12/2020	08:41	1SC00337	-1.97	7.45			X



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93085  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-08**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **V10058910**  
 ALS Contact: Kato Kaneko  
 1 (805) 577-2089

Company Name & Address (Reporting Information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000		Project Name Kirtland AFB Bulk Fuels Facility		ALS Contact: Kato Kaneko 1 (805) 577-2089		Comments e.g. Actual Preservative or specific instructions
Project Manager / Project Chemist Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143		Project Number 62735DM02		Analysis Method TO-15 Project Specific List		
Email Address for Result Reporting Tara Lamond: Amanda Smith: Pam Moss:		P.O. # / Billing Information 17682		Flow Controller ID (Bar code # - FC #)		Chain of Custody Seal: (Circle) INTACT <input checked="" type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/> Date: <u>10/14/20</u> Time: <u>8:30</u> Date: _____ Time: _____ Project Requirements: QAPP Cooler / Blank Temperature: _____ °C
Laboratory ID Number		Canister ID (Bar code # - AC, SC, etc.)		Canister Start Pressure "Hg		
Date Collected		Canister End Pressure "Hg/psig		Sample Volume		
Time Collected		Flow Controller ID (Bar code # - FC #)		Canister Start Pressure "Hg		
Laboratory ID Number		Canister ID (Bar code # - AC, SC, etc.)		Canister End Pressure "Hg/psig		
Date Collected		Flow Controller ID (Bar code # - FC #)		Sample Volume		
Time Collected		Canister Start Pressure "Hg		Canister End Pressure "Hg/psig		
Laboratory ID Number		Canister ID (Bar code # - AC, SC, etc.)		Sample Volume		
Date Collected		Flow Controller ID (Bar code # - FC #)		Canister Start Pressure "Hg		
Time Collected		Canister End Pressure "Hg/psig		Sample Volume		

FedEx Tracking Number: **1028 3402 4345**

Shipping information: Box number **4** of **6**

Report Tier Levels - please select  
 Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + OC Summaries) \_\_\_\_\_  
 Tier III (Results + OC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) [Signature] Date: 10/14/20 Time: 1000  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

# Air - Chain of Custody Record & Analytical Service Request



2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-07**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **91005896**

ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Project Name: **Kirtland AFB Bulk Fuels Facility**  
 Project Number: **62735DM02**  
 P.O. # / Billing Information: **17882**  
 Sampler (Print & Sign):

Company Name & Address (Reporting Information)  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000  
 Project Manager / Project Chemist: **Devon Jerclincovic (505) 715-4248 / Pam Moss (303) 580-9143**  
 Email Address for Result Reporting: **tiamond@eaest.com, asmith@eaest.com, pmoss@eaest.com**

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments e.g. Actual Preservative or specific instructions
SV134-050-204	1	10/12/2020	1315	1SC00815	NA	-24.0	-1.0	1L	X
SV134-170-204	2	10/12/2020	1318	1SS00525	NA	-28.0	-1.5	1L	X
SV134-250-204	3	10/12/2020	1321	1SS00854	NA	-24.5	-5.0	1L	X
SV134-350-204	4	10/12/2020	1325	1SS00121	NA	-24.5	0.0	1L	X
SV134-350-604	5	10/12/2020	1325	1SC00036	NA	-24.5	-1.0	1L	X
SV134-450-204	6	10/12/2020	1334	1SC00776	NA	-24.0	-2.0	1L	X
SV135-025-204	7	10/12/2020	1046	1SS00055	NA	-28.0	0.0	1L	X
SV135-050-204	8	10/12/2020	1050	1SS00841	NA	-25.0	-4.0	1L	X
SV135-150-204	9	10/12/2020	1053	1SC00723	NA	-24.5	-1.0	1L	X
SV135-250-604	10	10/12/2020	1056	1SS00128	NA	-23.0	-2.0	1L	X

FedEX Tracking Number: **1028 3402 4345**  
 Shipping information: Box number 4 of 6  
 Associated with Trip blank: SVTB204-02

Report Tier Levels - please select  
 Tier I - Results (Default; if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) *Aim* Date: **10/14/20** Time: **1000**  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) *[Signature]* Date: **10/19/20** Time: **1330**  
 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

EDD required: Yes  
 Type: ERPMIS / EQUIS  
 Chain of Custody Seal: (Circle) **IMPACT** BROKEN ABSENT

Project Requirements: QAPP  
 Cooler / Blank Temperature NA °C

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2005896  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/19/20 Date opened: 10/19/20 by: DENISE.POSADA

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | Yes                                 | No                       | N/A                                 |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? <u>Box sealing.</u> Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2005896-001.01	1.0 L Source Can					
P2005896-002.01	1.0 L Source Silonite Canister					
P2005896-003.01	1.0 L Source Silonite Canister					
P2005896-004.01	1.0 L Source Silonite Canister					
P2005896-005.01	1.0 L Source Can					
P2005896-006.01	1.0 L Source Can					
P2005896-007.01	1.0 L Source Silonite Canister					
P2005896-008.01	1.0 L Source Silonite Canister					
P2005896-009.01	1.0 L Source Can					
P2005896-010.01	1.0 L Source Silonite Canister					
P2005896-011.01	1.0 L Source Silonite Canister					
P2005896-012.01	1.0 L Source Silonite Canister					
P2005896-013.01	1.0 L Source Can					
P2005896-014.01	1.0 L Source Silonite Canister					
P2005896-015.01	1.0 L Source Silonite Canister					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00915

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.20 Final Pressure (psig): 7.39

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.2	2.5	1.5	0.62	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.5	1.5	0.42	J
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.82	2.5	0.82	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	18	25	4.0	1.8	J
67-64-1	Acetone	37	25	13	5.8	
75-69-4	Trichlorofluoromethane	1.1	2.4	1.5	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	0.87	2.5	0.82	0.36	J
75-15-0	Carbon Disulfide	6.0	4.8	2.6	0.77	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	5.6	4.8	1.5	0.53	
141-78-6	Ethyl Acetate	1.5	4.8	3.1	1.3	J
110-54-3	n-Hexane	0.97	2.5	1.5	0.53	J
67-66-3	Chloroform	0.82	2.5	0.82	0.34	U
109-99-9	Tetrahydrofuran (THF)	0.40	4.8	0.82	0.32	J
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	0.45	2.5	0.82	0.37	J
56-23-5	Carbon Tetrachloride	0.82	2.4	0.82	0.36	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV134-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-001

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00915

Initial Pressure (psig): -3.20 Final Pressure (psig): 7.39

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.72	U
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	<b>16</b>	2.4	0.82	0.35	
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.30	U
142-82-5	n-Heptane	<b>0.67</b>	2.5	1.5	0.41	J
108-10-1	4-Methyl-2-pentanone	0.82	4.8	0.82	0.35	U
108-88-3	Toluene	<b>1.5</b>	2.5	0.82	0.31	J
591-78-6	2-Hexanone	<b>0.88</b>	4.8	0.82	0.32	J
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	<b>0.64</b>	2.5	0.82	0.33	J
100-41-4	Ethylbenzene	0.82	2.5	0.82	0.36	U
179601-23-1	m,p-Xylenes	<b>0.92</b>	4.8	1.6	0.67	J
75-25-2	Bromoform	1.5	2.5	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	<b>0.42</b>	2.5	0.82	0.37	J
108-67-8	1,3,5-Trimethylbenzene	0.82	2.5	0.82	0.37	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.73</b>	2.5	0.82	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	<b>1.3</b>	4.8	1.6	0.67	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00525

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.73    Final Pressure (psig): 7.47  
 Initial Pressure 2 (psig): 0.01    Final Pressure 2 (psig): 7.24

Container Dilution Factor: 2.76

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.2	3.6	2.2	0.90	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	3.6	2.2	0.60	J
74-87-3	Chloromethane	2.2	3.6	2.2	0.59	U
75-01-4	Vinyl Chloride	1.2	3.7	1.2	0.39	U
106-99-0	1,3-Butadiene	2.2	3.6	2.2	0.61	U
75-00-3	Chloroethane	2.2	3.6	2.2	0.46	U
64-17-5	Ethanol	9.2	37	5.7	2.6	J
67-64-1	Acetone	42	36	19	8.3	
75-69-4	Trichlorofluoromethane	1.1	3.5	2.2	0.56	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.3	6.9	4.3	1.5	U
75-09-2	Methylene Chloride	2.2	3.6	2.2	1.0	U
76-13-1	Trichlorotrifluoroethane	1.5	3.7	1.2	0.52	J
75-15-0	Carbon Disulfide	9.0	6.9	3.7	1.1	
75-34-3	1,1-Dichloroethane	2.3	3.7	2.3	0.54	U
78-93-3	2-Butanone (MEK)	4.5	6.9	2.2	0.76	J
141-78-6	Ethyl Acetate	4.5	6.9	4.5	1.9	U
110-54-3	n-Hexane	2.2	3.6	2.2	0.76	U
67-66-3	Chloroform	0.49	3.7	1.2	0.49	J
109-99-9	Tetrahydrofuran (THF)	3.5	6.9	1.2	0.46	J
107-06-2	1,2-Dichloroethane	1.2	3.6	1.2	0.41	U
71-43-2	Benzene	0.75	3.6	1.2	0.53	J
56-23-5	Carbon Tetrachloride	1.2	3.5	1.2	0.51	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV134-170-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00525

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.73 Final Pressure (psig): 7.47

Initial Pressure 2 (psig): 0.01 Final Pressure 2 (psig): 7.24

Container Dilution Factor: 2.76

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.3	6.9	2.3	1.0	U
75-27-4	Bromodichloromethane	1.2	3.6	1.2	0.53	U
79-01-6	Trichloroethene	<b>59</b>	3.5	1.2	0.50	
123-91-1	1,4-Dioxane	1.2	3.6	1.2	0.43	U
142-82-5	n-Heptane	2.2	3.6	2.2	0.59	U
108-10-1	4-Methyl-2-pentanone	1.2	6.9	1.2	0.50	U
108-88-3	Toluene	<b>1.2</b>	3.6	1.2	0.45	J
591-78-6	2-Hexanone	1.2	6.9	1.2	0.46	U
124-48-1	Dibromochloromethane	1.2	3.6	1.2	0.48	U
106-93-4	1,2-Dibromoethane	1.2	3.6	1.2	0.43	U
127-18-4	Tetrachloroethene	<b>1.4</b>	3.6	1.2	0.48	J
100-41-4	Ethylbenzene	1.2	3.6	1.2	0.52	U
179601-23-1	m,p-Xylenes	<b>1.0</b>	6.9	2.3	0.97	J
75-25-2	Bromoform	2.2	3.7	2.2	0.76	U
100-42-5	Styrene	2.2	3.6	2.2	0.59	U
95-47-6	o-Xylene	1.2	3.7	1.2	0.53	U
108-67-8	1,3,5-Trimethylbenzene	1.2	3.7	1.2	0.53	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.75</b>	3.6	1.2	0.51	J
120-82-1	1,2,4-Trichlorobenzene	2.2	6.9	2.2	0.90	U
91-20-3	Naphthalene	2.1	3.6	2.1	0.90	U
1330-20-7	Xylenes, Total	<b>1.0</b>	6.9	2.3	0.97	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00854

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.21 Final Pressure (psig): 7.50

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.83</b>	2.8	1.7	0.69	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.5</b>	2.8	1.7	0.46	<b>J</b>
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	<b>U</b>
75-01-4	Vinyl Chloride	0.90	2.8	0.90	0.30	<b>U</b>
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	<b>U</b>
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	<b>U</b>
64-17-5	Ethanol	<b>10</b>	28	4.4	2.0	<b>J</b>
67-64-1	Acetone	<b>12</b>	28	14	6.4	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.99</b>	2.7	1.7	0.43	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	3.3	5.3	3.3	1.2	<b>U</b>
75-09-2	Methylene Chloride	<b>6.2</b>	2.8	1.7	0.80	
76-13-1	Trichlorotrifluoroethane	<b>1.6</b>	2.8	0.90	0.40	<b>J</b>
75-15-0	Carbon Disulfide	<b>8.5</b>	5.3	2.9	0.85	
75-34-3	1,1-Dichloroethane	1.7	2.9	1.7	0.41	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.1</b>	5.3	1.7	0.58	<b>J</b>
141-78-6	Ethyl Acetate	<b>2.6</b>	5.3	3.4	1.5	<b>J</b>
110-54-3	n-Hexane	1.7	2.8	1.7	0.58	<b>U</b>
67-66-3	Chloroform	<b>0.50</b>	2.8	0.90	0.38	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>8.2</b>	5.3	0.90	0.36	
107-06-2	1,2-Dichloroethane	0.90	2.8	0.90	0.31	<b>U</b>
71-43-2	Benzene	<b>0.82</b>	2.8	0.90	0.41	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.53</b>	2.7	0.90	0.39	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00854

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.21 Final Pressure (psig): 7.50

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.8	5.3	1.8	0.80	U
75-27-4	Bromodichloromethane	0.90	2.8	0.90	0.41	U
79-01-6	Trichloroethene	<b>60</b>	2.7	0.90	0.38	
123-91-1	1,4-Dioxane	0.90	2.8	0.90	0.33	U
142-82-5	n-Heptane	1.7	2.8	1.7	0.45	U
108-10-1	4-Methyl-2-pentanone	0.90	5.3	0.90	0.39	U
108-88-3	Toluene	<b>1.7</b>	2.8	0.90	0.34	J
591-78-6	2-Hexanone	0.90	5.3	0.90	0.35	U
124-48-1	Dibromochloromethane	0.90	2.8	0.90	0.37	U
106-93-4	1,2-Dibromoethane	0.90	2.8	0.90	0.33	U
127-18-4	Tetrachloroethene	<b>1.2</b>	2.8	0.90	0.37	J
100-41-4	Ethylbenzene	0.90	2.8	0.90	0.40	U
179601-23-1	m,p-Xylenes	<b>1.5</b>	5.3	1.8	0.74	J
75-25-2	Bromoform	1.7	2.8	1.7	0.58	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	<b>0.65</b>	2.8	0.90	0.41	J
108-67-8	1,3,5-Trimethylbenzene	0.90	2.8	0.90	0.41	U
95-63-6	1,2,4-Trimethylbenzene	<b>1.2</b>	2.8	0.90	0.39	J
120-82-1	1,2,4-Trichlorobenzene	1.7	5.3	1.7	0.69	U
91-20-3	Naphthalene	1.6	2.8	1.6	0.69	U
1330-20-7	Xylenes, Total	<b>2.2</b>	5.3	1.8	0.74	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00121

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.58    Final Pressure (psig): 7.53  
 Initial Pressure 2 (psig): 0.10    Final Pressure 2 (psig): 6.61

Container Dilution Factor: 2.64

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.2	3.4	2.1	0.86	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	3.4	2.1	0.57	J
74-87-3	Chloromethane	2.1	3.4	2.1	0.57	U
75-01-4	Vinyl Chloride	1.1	3.5	1.1	0.38	U
106-99-0	1,3-Butadiene	2.1	3.4	2.1	0.58	U
75-00-3	Chloroethane	2.1	3.4	2.1	0.44	U
64-17-5	Ethanol	9.6	35	5.5	2.4	J
67-64-1	Acetone	13	34	18	7.9	J
75-69-4	Trichlorofluoromethane	1.0	3.4	2.1	0.53	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.2	6.6	4.2	1.5	U
75-09-2	Methylene Chloride	2.1	3.4	2.1	0.99	U
76-13-1	Trichlorotrifluoroethane	1.0	3.5	1.1	0.50	J
75-15-0	Carbon Disulfide	26	6.6	3.6	1.1	
75-34-3	1,1-Dichloroethane	2.2	3.6	2.2	0.51	U
78-93-3	2-Butanone (MEK)	3.9	6.6	2.1	0.73	J
141-78-6	Ethyl Acetate	4.3	6.6	4.3	1.8	U
110-54-3	n-Hexane	2.1	3.4	2.1	0.73	U
67-66-3	Chloroform	0.78	3.5	1.1	0.47	J
109-99-9	Tetrahydrofuran (THF)	7.6	6.6	1.1	0.44	
107-06-2	1,2-Dichloroethane	1.1	3.4	1.1	0.39	U
71-43-2	Benzene	4.3	3.4	1.1	0.51	
56-23-5	Carbon Tetrachloride	0.51	3.4	1.1	0.49	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00121

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.58    Final Pressure (psig): 7.53  
 Initial Pressure 2 (psig): 0.10    Final Pressure 2 (psig): 6.61

Container Dilution Factor: 2.64

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.2	6.6	2.2	0.99	U
75-27-4	Bromodichloromethane	1.1	3.4	1.1	0.51	U
79-01-6	Trichloroethene	<b>21</b>	3.4	1.1	0.48	
123-91-1	1,4-Dioxane	<b>0.77</b>	3.4	1.1	0.42	J
142-82-5	n-Heptane	2.1	3.4	2.1	0.56	U
108-10-1	4-Methyl-2-pentanone	1.1	6.6	1.1	0.48	U
108-88-3	Toluene	<b>1.5</b>	3.4	1.1	0.43	J
591-78-6	2-Hexanone	1.1	6.6	1.1	0.44	U
124-48-1	Dibromochloromethane	1.1	3.4	1.1	0.46	U
106-93-4	1,2-Dibromoethane	1.1	3.4	1.1	0.41	U
127-18-4	Tetrachloroethene	<b>0.71</b>	3.4	1.1	0.46	J
100-41-4	Ethylbenzene	1.1	3.4	1.1	0.50	U
179601-23-1	m,p-Xylenes	<b>1.1</b>	6.6	2.2	0.92	J
75-25-2	Bromoform	2.1	3.5	2.1	0.73	U
100-42-5	Styrene	2.1	3.4	2.1	0.57	U
95-47-6	o-Xylene	1.1	3.5	1.1	0.51	U
108-67-8	1,3,5-Trimethylbenzene	1.1	3.5	1.1	0.51	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.77</b>	3.4	1.1	0.49	J
120-82-1	1,2,4-Trichlorobenzene	2.1	6.6	2.1	0.86	U
91-20-3	Naphthalene	2.0	3.4	2.0	0.86	U
1330-20-7	Xylenes, Total	<b>1.1</b>	6.6	2.2	0.92	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-350-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00036

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.03 Final Pressure (psig): 7.97

Container Dilution Factor: 1.55

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.3	2.0	1.2	0.50	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	2.0	1.2	0.34	
74-87-3	Chloromethane	0.65	2.0	1.2	0.33	J
75-01-4	Vinyl Chloride	0.66	2.1	0.66	0.22	U
106-99-0	1,3-Butadiene	1.2	2.0	1.2	0.34	U
75-00-3	Chloroethane	0.55	2.0	1.2	0.26	J
64-17-5	Ethanol	22	21	3.2	1.4	
67-64-1	Acetone	74	20	10	4.7	
75-69-4	Trichlorofluoromethane	1.0	2.0	1.2	0.31	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.6	3.9	2.4	0.85	J
75-09-2	Methylene Chloride	28	2.0	1.2	0.58	
76-13-1	Trichlorotrifluoroethane	0.93	2.1	0.66	0.29	J
75-15-0	Carbon Disulfide	24	3.9	2.1	0.62	
75-34-3	1,1-Dichloroethane	1.3	2.1	1.3	0.30	U
78-93-3	2-Butanone (MEK)	14	3.9	1.2	0.43	
141-78-6	Ethyl Acetate	2.9	3.9	2.5	1.1	J
110-54-3	n-Hexane	0.53	2.0	1.2	0.43	J
67-66-3	Chloroform	0.72	2.1	0.66	0.28	J
109-99-9	Tetrahydrofuran (THF)	6.0	3.9	0.66	0.26	
107-06-2	1,2-Dichloroethane	0.66	2.0	0.66	0.23	U
71-43-2	Benzene	1.1	2.0	0.66	0.30	J
56-23-5	Carbon Tetrachloride	0.52	2.0	0.66	0.29	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV134-350-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-005

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00036

Initial Pressure (psig): -0.03 Final Pressure (psig): 7.97

Container Dilution Factor: 1.55

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.3	3.9	1.3	0.58	U
75-27-4	Bromodichloromethane	0.66	2.0	0.66	0.30	U
79-01-6	Trichloroethene	18	2.0	0.66	0.28	J
123-91-1	1,4-Dioxane	0.76	2.0	0.66	0.24	J
142-82-5	n-Heptane	0.61	2.0	1.2	0.33	J
108-10-1	4-Methyl-2-pentanone	0.48	3.9	0.66	0.28	J
108-88-3	Toluene	4.9	2.0	0.66	0.25	J
591-78-6	2-Hexanone	2.2	3.9	0.66	0.26	J
124-48-1	Dibromochloromethane	0.66	2.0	0.66	0.27	U
106-93-4	1,2-Dibromoethane	0.66	2.0	0.66	0.24	U
127-18-4	Tetrachloroethene	0.62	2.0	0.66	0.27	J
100-41-4	Ethylbenzene	0.40	2.0	0.66	0.29	J
179601-23-1	m,p-Xylenes	2.5	3.9	1.3	0.54	J
75-25-2	Bromoform	1.2	2.1	1.2	0.43	U
100-42-5	Styrene	1.2	2.0	1.2	0.33	U
95-47-6	o-Xylene	1.1	2.1	0.66	0.30	J
108-67-8	1,3,5-Trimethylbenzene	0.48	2.1	0.66	0.30	J
95-63-6	1,2,4-Trimethylbenzene	1.8	2.0	0.66	0.29	J
120-82-1	1,2,4-Trichlorobenzene	1.2	3.9	1.2	0.50	U
91-20-3	Naphthalene	1.2	2.0	1.2	0.50	U
1330-20-7	Xylenes, Total	3.6	3.9	1.3	0.54	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00776

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -3.19    Final Pressure (psig): 7.60  
 Initial Pressure 2 (psig): 0.15    Final Pressure 2 (psig): 4.51

Container Dilution Factor: 2.51

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	54	87	54	22	U
75-71-8	Dichlorodifluoromethane (CFC 12)	54	87	54	15	U
74-87-3	Chloromethane	<b>31</b>	87	54	14	J
75-01-4	Vinyl Chloride	28	89	28	9.5	U
106-99-0	1,3-Butadiene	54	87	54	15	U
75-00-3	Chloroethane	54	87	54	11	U
64-17-5	Ethanol	140	890	140	62	U
67-64-1	Acetone	450	870	450	200	U
75-69-4	Trichlorofluoromethane	54	85	54	14	U
67-63-0	2-Propanol (Isopropyl Alcohol)	110	170	110	37	U
75-09-2	Methylene Chloride	54	87	54	25	U
76-13-1	Trichlorotrifluoroethane	28	89	28	13	U
75-15-0	Carbon Disulfide	<b>110</b>	170	90	27	J
75-34-3	1,1-Dichloroethane	55	90	55	13	U
78-93-3	2-Butanone (MEK)	54	170	54	18	U
141-78-6	Ethyl Acetate	<b>110</b>	170	110	47	J
110-54-3	n-Hexane	<b>74</b>	87	54	18	J
67-66-3	Chloroform	28	89	28	12	U
109-99-9	Tetrahydrofuran (THF)	<b>22</b>	170	28	11	J
107-06-2	1,2-Dichloroethane	28	87	28	9.9	U
71-43-2	Benzene	<b>610</b>	87	28	13	J
56-23-5	Carbon Tetrachloride	28	85	28	12	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00776

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -3.19    Final Pressure (psig): 7.60  
 Initial Pressure 2 (psig): 0.15    Final Pressure 2 (psig): 4.51

Container Dilution Factor: 2.51

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	56	170	57	25	J
75-27-4	Bromodichloromethane	28	87	28	13	U
79-01-6	Trichloroethene	18	85	28	12	J
123-91-1	1,4-Dioxane	28	87	28	11	U
142-82-5	n-Heptane	44	87	54	14	J
108-10-1	4-Methyl-2-pentanone	28	170	28	12	U
108-88-3	Toluene	99	87	28	11	U
591-78-6	2-Hexanone	28	170	28	11	U
124-48-1	Dibromochloromethane	28	87	28	12	U
106-93-4	1,2-Dibromoethane	28	87	28	10	U
127-18-4	Tetrachloroethene	28	87	28	12	U
100-41-4	Ethylbenzene	19	87	28	13	J
179601-23-1	m,p-Xylenes	57	170	57	23	U
75-25-2	Bromoform	54	89	54	18	U
100-42-5	Styrene	54	87	54	14	U
95-47-6	o-Xylene	84	89	28	13	J
108-67-8	1,3,5-Trimethylbenzene	43	89	28	13	J
95-63-6	1,2,4-Trimethylbenzene	28	87	28	12	U
120-82-1	1,2,4-Trichlorobenzene	54	170	54	22	U
91-20-3	Naphthalene	52	87	52	22	U
1330-20-7	Xylenes, Total	84	170	57	23	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00055

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.16 Final Pressure (psig): 7.51

Container Dilution Factor: 1.77

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.66</b>	2.3	1.4	0.58	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.3</b>	2.3	1.4	0.38	<b>J</b>
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	<b>U</b>
75-01-4	Vinyl Chloride	0.75	2.3	0.75	0.25	<b>U</b>
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	<b>U</b>
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	<b>U</b>
64-17-5	Ethanol	<b>9.6</b>	23	3.7	1.6	<b>J</b>
67-64-1	Acetone	<b>11</b>	23	12	5.3	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>1.3</b>	2.3	1.4	0.36	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>1.3</b>	4.4	2.8	0.97	<b>J</b>
75-09-2	Methylene Chloride	<b>0.93</b>	2.3	1.4	0.66	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>0.73</b>	2.3	0.75	0.34	<b>J</b>
75-15-0	Carbon Disulfide	<b>12</b>	4.4	2.4	0.71	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.7</b>	4.4	1.4	0.49	<b>J</b>
141-78-6	Ethyl Acetate	<b>130</b>	4.4	2.9	1.2	
110-54-3	n-Hexane	1.4	2.3	1.4	0.49	<b>U</b>
67-66-3	Chloroform	<b>0.47</b>	2.3	0.75	0.31	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>1.4</b>	4.4	0.75	0.30	<b>J</b>
107-06-2	1,2-Dichloroethane	0.75	2.3	0.75	0.26	<b>U</b>
71-43-2	Benzene	<b>0.97</b>	2.3	0.75	0.34	<b>J</b>
56-23-5	Carbon Tetrachloride	0.75	2.3	0.75	0.33	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00055

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.16 Final Pressure (psig): 7.51

Container Dilution Factor: 1.77

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.4	1.5	0.66	U
75-27-4	Bromodichloromethane	0.75	2.3	0.75	0.34	U
79-01-6	Trichloroethene	<b>82</b>	2.3	0.75	0.32	
123-91-1	1,4-Dioxane	0.75	2.3	0.75	0.28	U
142-82-5	n-Heptane	<b>0.58</b>	2.3	1.4	0.38	J
108-10-1	4-Methyl-2-pentanone	0.75	4.4	0.75	0.32	U
108-88-3	Toluene	<b>8.2</b>	2.3	0.75	0.29	
591-78-6	2-Hexanone	0.75	4.4	0.75	0.29	U
124-48-1	Dibromochloromethane	0.75	2.3	0.75	0.31	U
106-93-4	1,2-Dibromoethane	0.75	2.3	0.75	0.27	U
127-18-4	Tetrachloroethene	<b>0.33</b>	2.3	0.75	0.31	J
100-41-4	Ethylbenzene	<b>0.62</b>	2.3	0.75	0.33	J
179601-23-1	m,p-Xylenes	<b>12</b>	4.4	1.5	0.62	
75-25-2	Bromoform	1.4	2.3	1.4	0.49	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	<b>8.1</b>	2.3	0.75	0.34	
108-67-8	1,3,5-Trimethylbenzene	<b>2.4</b>	2.3	0.75	0.34	
95-63-6	1,2,4-Trimethylbenzene	<b>3.4</b>	2.3	0.75	0.33	
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.58	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.58	U
1330-20-7	Xylenes, Total	<b>20</b>	4.4	1.5	0.62	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00841

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.30 Final Pressure (psig): 7.35

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.8	1.7	0.69	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	2.8	1.7	0.46	J
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	U
75-01-4	Vinyl Chloride	0.90	2.8	0.90	0.30	U
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	U
64-17-5	Ethanol	9.2	28	4.4	2.0	J
67-64-1	Acetone	8.6	28	14	6.4	J
75-69-4	Trichlorofluoromethane	1.4	2.7	1.7	0.43	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.3	5.3	3.3	1.2	U
75-09-2	Methylene Chloride	1.7	2.8	1.7	0.80	U
76-13-1	Trichlorotrifluoroethane	0.83	2.8	0.90	0.40	J
75-15-0	Carbon Disulfide	8.7	5.3	2.9	0.85	
75-34-3	1,1-Dichloroethane	1.7	2.9	1.7	0.41	U
78-93-3	2-Butanone (MEK)	3.1	5.3	1.7	0.58	J
141-78-6	Ethyl Acetate	64	5.3	3.4	1.5	
110-54-3	n-Hexane	1.7	2.8	1.7	0.58	U
67-66-3	Chloroform	0.64	2.8	0.90	0.38	J
109-99-9	Tetrahydrofuran (THF)	31	5.3	0.90	0.36	
107-06-2	1,2-Dichloroethane	0.90	2.8	0.90	0.31	U
71-43-2	Benzene	0.90	2.8	0.90	0.41	J
56-23-5	Carbon Tetrachloride	0.90	2.7	0.90	0.39	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV135-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-008

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00841

Initial Pressure (psig): -4.30 Final Pressure (psig): 7.35

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.8	5.3	1.8	0.80	U
75-27-4	Bromodichloromethane	0.90	2.8	0.90	0.41	U
79-01-6	Trichloroethene	<b>140</b>	2.7	0.90	0.38	
123-91-1	1,4-Dioxane	0.90	2.8	0.90	0.33	U
142-82-5	n-Heptane	<b>0.49</b>	2.8	1.7	0.45	J
108-10-1	4-Methyl-2-pentanone	0.90	5.3	0.90	0.39	U
108-88-3	Toluene	<b>5.2</b>	2.8	0.90	0.34	
591-78-6	2-Hexanone	0.90	5.3	0.90	0.35	U
124-48-1	Dibromochloromethane	0.90	2.8	0.90	0.37	U
106-93-4	1,2-Dibromoethane	0.90	2.8	0.90	0.33	U
127-18-4	Tetrachloroethene	<b>0.43</b>	2.8	0.90	0.37	J
100-41-4	Ethylbenzene	<b>0.83</b>	2.8	0.90	0.40	J
179601-23-1	m,p-Xylenes	<b>21</b>	5.3	1.8	0.74	
75-25-2	Bromoform	1.7	2.8	1.7	0.58	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	<b>13</b>	2.8	0.90	0.41	
108-67-8	1,3,5-Trimethylbenzene	<b>3.4</b>	2.8	0.90	0.41	
95-63-6	1,2,4-Trimethylbenzene	<b>5.3</b>	2.8	0.90	0.39	
120-82-1	1,2,4-Trichlorobenzene	1.7	5.3	1.7	0.69	U
91-20-3	Naphthalene	1.6	2.8	1.6	0.69	U
1330-20-7	Xylenes, Total	<b>34</b>	5.3	1.8	0.74	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00723

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.29 Final Pressure (psig): 7.30

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.63	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	2.5	1.5	0.42	J
74-87-3	Chloromethane	0.92	2.5	1.5	0.41	J
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	13	26	4.0	1.8	J
67-64-1	Acetone	70	25	13	5.8	
75-69-4	Trichlorofluoromethane	1.1	2.5	1.5	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.9	4.8	3.0	1.1	J
75-09-2	Methylene Chloride	1.2	2.5	1.5	0.72	J
76-13-1	Trichlorotrifluoroethane	2.2	2.6	0.82	0.37	J
75-15-0	Carbon Disulfide	9.7	4.8	2.6	0.77	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	43	4.8	1.5	0.53	
141-78-6	Ethyl Acetate	17	4.8	3.1	1.4	
110-54-3	n-Hexane	1.5	2.5	1.5	0.53	U
67-66-3	Chloroform	1.4	2.6	0.82	0.34	J
109-99-9	Tetrahydrofuran (THF)	34	4.8	0.82	0.32	
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	0.43	2.5	0.82	0.37	J
56-23-5	Carbon Tetrachloride	1.1	2.5	0.82	0.36	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00723

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.29 Final Pressure (psig): 7.30

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.72	U
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	<b>910</b>	25	8.2	3.5	<b>D</b>
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.30	U
142-82-5	n-Heptane	<b>0.72</b>	2.5	1.5	0.41	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>0.94</b>	4.8	0.82	0.35	<b>J</b>
108-88-3	Toluene	<b>2.6</b>	2.5	0.82	0.31	
591-78-6	2-Hexanone	<b>1.6</b>	4.8	0.82	0.32	<b>J</b>
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	<b>1.9</b>	2.5	0.82	0.33	<b>J</b>
100-41-4	Ethylbenzene	<b>0.44</b>	2.5	0.82	0.36	<b>J</b>
179601-23-1	m,p-Xylenes	<b>5.4</b>	4.8	1.6	0.68	
75-25-2	Bromoform	1.5	2.6	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	<b>3.2</b>	2.6	0.82	0.37	
108-67-8	1,3,5-Trimethylbenzene	<b>1.0</b>	2.6	0.82	0.37	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>1.5</b>	2.5	0.82	0.36	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.63	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	U
1330-20-7	Xylenes, Total	<b>8.6</b>	4.8	1.6	0.68	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00128

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.49      Final Pressure (psig): 7.23  
 Initial Pressure 2 (psig): 0.02      Final Pressure 2 (psig): 6.62

Container Dilution Factor: 2.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>1.3</b>	3.7	2.3	0.92	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>1.5</b>	3.7	2.3	0.62	<b>J</b>
74-87-3	Chloromethane	2.3	3.7	2.3	0.61	<b>U</b>
75-01-4	Vinyl Chloride	1.2	3.7	1.2	0.40	<b>U</b>
106-99-0	1,3-Butadiene	2.3	3.7	2.3	0.62	<b>U</b>
75-00-3	Chloroethane	2.3	3.7	2.3	0.47	<b>U</b>
64-17-5	Ethanol	<b>10</b>	37	5.9	2.6	<b>J</b>
67-64-1	Acetone	<b>16</b>	37	19	8.5	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.75</b>	3.6	2.3	0.57	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	4.5	7.1	4.5	1.6	<b>U</b>
75-09-2	Methylene Chloride	2.3	3.7	2.3	1.1	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>1.6</b>	3.7	1.2	0.54	<b>J</b>
75-15-0	Carbon Disulfide	<b>12</b>	7.1	3.8	1.1	
75-34-3	1,1-Dichloroethane	2.3	3.8	2.3	0.55	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>3.6</b>	7.1	2.3	0.78	<b>J</b>
141-78-6	Ethyl Acetate	4.6	7.1	4.6	2.0	<b>U</b>
110-54-3	n-Hexane	2.3	3.7	2.3	0.78	<b>U</b>
67-66-3	Chloroform	<b>1.6</b>	3.7	1.2	0.50	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>4.7</b>	7.1	1.2	0.47	<b>J</b>
107-06-2	1,2-Dichloroethane	1.2	3.7	1.2	0.42	<b>U</b>
71-43-2	Benzene	<b>2.1</b>	3.7	1.2	0.54	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.87</b>	3.6	1.2	0.52	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV135-250-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-010

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00128

Initial Pressure (psig): -3.49    Final Pressure (psig): 7.23  
 Initial Pressure 2 (psig): 0.02    Final Pressure 2 (psig): 6.62

Container Dilution Factor: 2.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.4	7.1	2.4	1.1	U
75-27-4	Bromodichloromethane	1.2	3.7	1.2	0.54	U
79-01-6	Trichloroethene	<b>580</b>	3.6	1.2	0.51	
123-91-1	1,4-Dioxane	1.2	3.7	1.2	0.45	U
142-82-5	n-Heptane	2.3	3.7	2.3	0.60	U
108-10-1	4-Methyl-2-pentanone	1.2	7.1	1.2	0.52	U
108-88-3	Toluene	<b>3.8</b>	3.7	1.2	0.46	
591-78-6	2-Hexanone	1.2	7.1	1.2	0.47	U
124-48-1	Dibromochloromethane	1.2	3.7	1.2	0.50	U
106-93-4	1,2-Dibromoethane	1.2	3.7	1.2	0.44	U
127-18-4	Tetrachloroethene	<b>1.3</b>	3.7	1.2	0.49	J
100-41-4	Ethylbenzene	<b>0.74</b>	3.7	1.2	0.53	J
179601-23-1	m,p-Xylenes	<b>16</b>	7.1	2.4	0.99	
75-25-2	Bromoform	2.3	3.7	2.3	0.78	U
100-42-5	Styrene	2.3	3.7	2.3	0.61	U
95-47-6	o-Xylene	<b>9.3</b>	3.7	1.2	0.54	
108-67-8	1,3,5-Trimethylbenzene	<b>2.8</b>	3.7	1.2	0.54	J
95-63-6	1,2,4-Trimethylbenzene	<b>4.5</b>	3.7	1.2	0.52	
120-82-1	1,2,4-Trichlorobenzene	2.3	7.1	2.3	0.92	U
91-20-3	Naphthalene	2.2	3.7	2.2	0.92	U
1330-20-7	Xylenes, Total	<b>26</b>	7.1	2.4	0.99	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00999

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2 - 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.57 Final Pressure (psig): 7.43

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.62</b>	2.4	1.5	0.59	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>1.3</b>	2.4	1.5	0.40	<b>J</b>
74-87-3	Chloromethane	1.5	2.4	1.5	0.39	<b>U</b>
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	<b>U</b>
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	<b>U</b>
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	<b>U</b>
64-17-5	Ethanol	<b>6.7</b>	24	3.8	1.7	<b>J</b>
67-64-1	Acetone	12	24	12	5.5	<b>U</b>
75-69-4	Trichlorofluoromethane	<b>0.63</b>	2.3	1.5	0.37	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	<b>U</b>
75-09-2	Methylene Chloride	<b>1.2</b>	2.4	1.5	0.68	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>1.6</b>	2.4	0.77	0.35	<b>J</b>
75-15-0	Carbon Disulfide	<b>7.8</b>	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.35	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>4.4</b>	4.6	1.5	0.50	<b>J</b>
141-78-6	Ethyl Acetate	<b>2.9</b>	4.6	3.0	1.3	<b>J</b>
110-54-3	n-Hexane	1.5	2.4	1.5	0.50	<b>U</b>
67-66-3	Chloroform	<b>1.6</b>	2.4	0.77	0.32	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>3.7</b>	4.6	0.77	0.30	<b>J</b>
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	<b>U</b>
71-43-2	Benzene	<b>0.36</b>	2.4	0.77	0.35	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.89</b>	2.3	0.77	0.34	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00999

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2 - 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.57 Final Pressure (psig): 7.43

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.6	1.5	0.68	U
75-27-4	Bromodichloromethane	0.77	2.4	0.77	0.35	U
79-01-6	Trichloroethene	<b>460</b>	23	7.7	3.3	<b>D</b>
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	<b>0.73</b>	2.4	1.5	0.39	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>0.46</b>	4.6	0.77	0.33	<b>J</b>
108-88-3	Toluene	<b>1.6</b>	2.4	0.77	0.30	<b>J</b>
591-78-6	2-Hexanone	0.77	4.6	0.77	0.30	U
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	<b>1.3</b>	2.4	0.77	0.31	<b>J</b>
100-41-4	Ethylbenzene	0.77	2.4	0.77	0.34	U
179601-23-1	m,p-Xylenes	<b>3.6</b>	4.6	1.5	0.64	<b>J</b>
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	<b>2.2</b>	2.4	0.77	0.35	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.61</b>	2.4	0.77	0.35	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>1.1</b>	2.4	0.77	0.34	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	<b>5.8</b>	4.6	1.5	0.64	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00779

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.28    Final Pressure (psig): 7.70  
 Initial Pressure 2 (psig): 0.04    Final Pressure 2 (psig): 7.11

Container Dilution Factor: 2.67

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>1.2</b>	3.5	2.1	0.87	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>1.4</b>	3.5	2.1	0.58	<b>J</b>
74-87-3	Chloromethane	2.1	3.5	2.1	0.57	<b>U</b>
75-01-4	Vinyl Chloride	1.1	3.5	1.1	0.38	<b>U</b>
106-99-0	1,3-Butadiene	2.1	3.5	2.1	0.59	<b>U</b>
75-00-3	Chloroethane	2.1	3.5	2.1	0.44	<b>U</b>
64-17-5	Ethanol	<b>20</b>	35	5.5	2.5	<b>J</b>
67-64-1	Acetone	<b>30</b>	35	18	8.0	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.79</b>	3.4	2.1	0.54	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>1.5</b>	6.7	4.2	1.5	<b>J</b>
75-09-2	Methylene Chloride	<b>2.3</b>	3.5	2.1	1.0	<b>J</b>
76-13-1	Trichlorotrifluoroethane	1.1	3.5	1.1	0.51	<b>U</b>
75-15-0	Carbon Disulfide	<b>4.9</b>	6.7	3.6	1.1	<b>J</b>
75-34-3	1,1-Dichloroethane	2.2	3.6	2.2	0.52	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>7.7</b>	6.7	2.1	0.73	
141-78-6	Ethyl Acetate	4.3	6.7	4.3	1.9	<b>U</b>
110-54-3	n-Hexane	2.1	3.5	2.1	0.73	<b>U</b>
67-66-3	Chloroform	1.1	3.5	1.1	0.47	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>23</b>	6.7	1.1	0.45	
107-06-2	1,2-Dichloroethane	1.1	3.5	1.1	0.39	<b>U</b>
71-43-2	Benzene	<b>0.75</b>	3.5	1.1	0.51	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.58</b>	3.4	1.1	0.49	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00779

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.28 Final Pressure (psig): 7.70

Initial Pressure 2 (psig): 0.04 Final Pressure 2 (psig): 7.11

Container Dilution Factor: 2.67

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.3	6.7	2.3	1.0	U
75-27-4	Bromodichloromethane	1.1	3.5	1.1	0.51	U
79-01-6	Trichloroethene	<b>33</b>	3.4	1.1	0.48	
123-91-1	1,4-Dioxane	1.1	3.5	1.1	0.42	U
142-82-5	n-Heptane	2.1	3.5	2.1	0.57	U
108-10-1	4-Methyl-2-pentanone	1.1	6.7	1.1	0.49	U
108-88-3	Toluene	<b>1.6</b>	3.5	1.1	0.43	J
591-78-6	2-Hexanone	1.1	6.7	1.1	0.44	U
124-48-1	Dibromochloromethane	1.1	3.5	1.1	0.47	U
106-93-4	1,2-Dibromoethane	1.1	3.5	1.1	0.41	U
127-18-4	Tetrachloroethene	1.1	3.5	1.1	0.46	U
100-41-4	Ethylbenzene	1.1	3.5	1.1	0.50	U
179601-23-1	m,p-Xylenes	<b>4.2</b>	6.7	2.3	0.93	J
75-25-2	Bromoform	2.1	3.5	2.1	0.73	U
100-42-5	Styrene	2.1	3.5	2.1	0.57	U
95-47-6	o-Xylene	<b>2.9</b>	3.5	1.1	0.51	J
108-67-8	1,3,5-Trimethylbenzene	<b>1.0</b>	3.5	1.1	0.51	J
95-63-6	1,2,4-Trimethylbenzene	<b>1.6</b>	3.5	1.1	0.49	J
120-82-1	1,2,4-Trichlorobenzene	2.1	6.7	2.1	0.87	U
91-20-3	Naphthalene	2.1	3.5	2.1	0.87	U
1330-20-7	Xylenes, Total	<b>7.1</b>	6.7	2.3	0.93	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00173

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.88 Final Pressure (psig): 7.70

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.5	2.5	1.5	0.62	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.99	2.5	1.5	0.41	J
74-87-3	Chloromethane	9.1	2.5	1.5	0.41	
75-01-4	Vinyl Chloride	3.9	2.5	0.81	0.27	
106-99-0	1,3-Butadiene	0.68	2.5	1.5	0.42	J
75-00-3	Chloroethane	4.5	2.5	1.5	0.31	
64-17-5	Ethanol	34	25	3.9	1.8	
67-64-1	Acetone	35	25	13	5.7	
75-69-4	Trichlorofluoromethane	0.56	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	4.8	3.0	1.0	J
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	1.0	2.5	0.81	0.36	J
75-15-0	Carbon Disulfide	53	4.8	2.6	0.76	
75-34-3	1,1-Dichloroethane	0.81	2.6	1.6	0.37	J
78-93-3	2-Butanone (MEK)	14	4.8	1.5	0.52	
141-78-6	Ethyl Acetate	2.8	4.8	3.1	1.3	J
110-54-3	n-Hexane	1.5	2.5	1.5	0.52	U
67-66-3	Chloroform	1.2	2.5	0.81	0.34	J
109-99-9	Tetrahydrofuran (THF)	33	4.8	0.81	0.32	
107-06-2	1,2-Dichloroethane	2.7	2.5	0.81	0.28	
71-43-2	Benzene	1.5	2.5	0.81	0.37	J
56-23-5	Carbon Tetrachloride	0.74	2.4	0.81	0.35	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV135-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-013

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00173

Initial Pressure (psig): -2.88 Final Pressure (psig): 7.70

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.71	U
75-27-4	Bromodichloromethane	0.81	2.5	0.81	0.37	U
79-01-6	Trichloroethene	<b>280</b>	2.4	0.81	0.34	
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	<b>0.93</b>	2.5	1.5	0.40	J
108-10-1	4-Methyl-2-pentanone	<b>4.9</b>	4.8	0.81	0.35	
108-88-3	Toluene	<b>11</b>	2.5	0.81	0.31	
591-78-6	2-Hexanone	<b>1.1</b>	4.8	0.81	0.31	J
124-48-1	Dibromochloromethane	0.81	2.5	0.81	0.33	U
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.29	U
127-18-4	Tetrachloroethene	<b>1.3</b>	2.5	0.81	0.33	J
100-41-4	Ethylbenzene	<b>1.4</b>	2.5	0.81	0.36	J
179601-23-1	m,p-Xylenes	<b>6.6</b>	4.8	1.6	0.67	
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	<b>0.52</b>	2.5	1.5	0.41	J
95-47-6	o-Xylene	<b>2.2</b>	2.5	0.81	0.37	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.45</b>	2.5	0.81	0.37	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.81</b>	2.5	0.81	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	<b>8.8</b>	4.8	1.6	0.67	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00093

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.02    Final Pressure (psig): 7.88  
 Initial Pressure 2 (psig): 0.47    Final Pressure 2 (psig): 6.84

Container Dilution Factor: 2.74

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.2	3.6	2.2	0.89	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	3.6	2.2	0.60	J
74-87-3	Chloromethane	2.2	3.6	2.2	0.59	U
75-01-4	Vinyl Chloride	1.2	3.6	1.2	0.39	U
106-99-0	1,3-Butadiene	2.2	3.6	2.2	0.60	U
75-00-3	Chloroethane	2.2	3.6	2.2	0.45	U
64-17-5	Ethanol	4.5	36	5.7	2.5	J
67-64-1	Acetone	18	36	18	8.2	U
75-69-4	Trichlorofluoromethane	1.2	3.5	2.2	0.55	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.3	6.9	4.3	1.5	U
75-09-2	Methylene Chloride	2.2	3.6	2.2	1.0	U
76-13-1	Trichlorotrifluoroethane	1.2	3.6	1.2	0.52	U
75-15-0	Carbon Disulfide	2.3	6.9	3.7	1.1	J
75-34-3	1,1-Dichloroethane	2.3	3.7	2.3	0.53	U
78-93-3	2-Butanone (MEK)	1.3	6.9	2.2	0.75	J
141-78-6	Ethyl Acetate	4.5	6.9	4.5	1.9	U
110-54-3	n-Hexane	2.2	3.6	2.2	0.75	U
67-66-3	Chloroform	1.2	3.6	1.2	0.49	U
109-99-9	Tetrahydrofuran (THF)	1.2	6.9	1.2	0.46	U
107-06-2	1,2-Dichloroethane	1.2	3.6	1.2	0.40	U
71-43-2	Benzene	1.2	3.6	1.2	0.53	U
56-23-5	Carbon Tetrachloride	1.2	3.5	1.2	0.51	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00093

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.02 Final Pressure (psig): 7.88

Initial Pressure 2 (psig): 0.47 Final Pressure 2 (psig): 6.84

Container Dilution Factor: 2.74

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.3	6.9	2.3	1.0	U
75-27-4	Bromodichloromethane	1.2	3.6	1.2	0.53	U
79-01-6	Trichloroethene	1.2	3.5	1.2	0.49	U
123-91-1	1,4-Dioxane	1.2	3.6	1.2	0.43	U
142-82-5	n-Heptane	2.2	3.6	2.2	0.58	U
108-10-1	4-Methyl-2-pentanone	1.2	6.9	1.2	0.50	U
108-88-3	Toluene	1.2	3.6	1.2	0.45	U
591-78-6	2-Hexanone	1.2	6.9	1.2	0.45	U
124-48-1	Dibromochloromethane	1.2	3.6	1.2	0.48	U
106-93-4	1,2-Dibromoethane	1.2	3.6	1.2	0.42	U
127-18-4	Tetrachloroethene	1.2	3.6	1.2	0.47	U
100-41-4	Ethylbenzene	1.2	3.6	1.2	0.51	U
179601-23-1	m,p-Xylenes	2.3	6.9	2.3	0.96	U
75-25-2	Bromoform	2.2	3.6	2.2	0.75	U
100-42-5	Styrene	2.2	3.6	2.2	0.59	U
95-47-6	o-Xylene	1.2	3.6	1.2	0.53	U
108-67-8	1,3,5-Trimethylbenzene	1.2	3.6	1.2	0.53	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.55</b>	3.6	1.2	0.51	J
120-82-1	1,2,4-Trichlorobenzene	2.2	6.9	2.2	0.89	U
91-20-3	Naphthalene	2.1	3.6	2.1	0.89	U
1330-20-7	Xylenes, Total	2.3	6.9	2.3	0.96	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00091

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.04    Final Pressure (psig): 7.30  
 Initial Pressure 2 (psig): 0.03    Final Pressure 2 (psig): 5.72

Container Dilution Factor: 2.62

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.9	3.4	2.1	0.85	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	3.4	2.1	0.57	J
74-87-3	Chloromethane	2.1	3.4	2.1	0.56	U
75-01-4	Vinyl Chloride	1.1	3.5	1.1	0.37	U
106-99-0	1,3-Butadiene	2.1	3.4	2.1	0.58	U
75-00-3	Chloroethane	2.1	3.4	2.1	0.43	U
64-17-5	Ethanol	14	35	5.4	2.4	J
67-64-1	Acetone	23	34	18	7.9	J
75-69-4	Trichlorofluoromethane	1.3	3.3	2.1	0.53	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.8	6.6	4.1	1.4	J
75-09-2	Methylene Chloride	1.1	3.4	2.1	0.98	J
76-13-1	Trichlorotrifluoroethane	1.1	3.5	1.1	0.50	U
75-15-0	Carbon Disulfide	3.6	6.6	3.5	1.0	J
75-34-3	1,1-Dichloroethane	2.2	3.5	2.2	0.51	U
78-93-3	2-Butanone (MEK)	3.4	6.6	2.1	0.72	J
141-78-6	Ethyl Acetate	4.3	6.6	4.3	1.8	U
110-54-3	n-Hexane	2.1	3.4	2.1	0.72	U
67-66-3	Chloroform	0.55	3.5	1.1	0.47	J
109-99-9	Tetrahydrofuran (THF)	1.7	6.6	1.1	0.44	J
107-06-2	1,2-Dichloroethane	1.1	3.4	1.1	0.39	U
71-43-2	Benzene	0.54	3.4	1.1	0.50	J
56-23-5	Carbon Tetrachloride	1.1	3.3	1.1	0.48	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00091

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.04    Final Pressure (psig): 7.30  
 Initial Pressure 2 (psig): 0.03    Final Pressure 2 (psig): 5.72

Container Dilution Factor: 2.62

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.2	6.6	2.2	0.98	U
75-27-4	Bromodichloromethane	1.1	3.4	1.1	0.50	U
79-01-6	Trichloroethene	1.1	3.3	1.1	0.47	U
123-91-1	1,4-Dioxane	1.1	3.4	1.1	0.41	U
142-82-5	n-Heptane	2.1	3.4	2.1	0.56	U
108-10-1	4-Methyl-2-pentanone	1.1	6.6	1.1	0.48	U
108-88-3	Toluene	1.2	3.4	1.1	0.43	J
591-78-6	2-Hexanone	1.1	6.6	1.1	0.43	U
124-48-1	Dibromochloromethane	1.1	3.4	1.1	0.46	U
106-93-4	1,2-Dibromoethane	1.1	3.4	1.1	0.41	U
127-18-4	Tetrachloroethene	1.1	3.4	1.1	0.45	U
100-41-4	Ethylbenzene	1.1	3.4	1.1	0.49	U
179601-23-1	m,p-Xylenes	1.1	6.6	2.2	0.92	J
75-25-2	Bromoform	2.1	3.5	2.1	0.72	U
100-42-5	Styrene	2.1	3.4	2.1	0.56	U
95-47-6	o-Xylene	1.1	3.5	1.1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1.1	3.5	1.1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1.3	3.4	1.1	0.48	J
120-82-1	1,2,4-Trichlorobenzene	2.1	6.6	2.1	0.85	U
91-20-3	Naphthalene	2.0	3.4	2.0	0.85	U
1330-20-7	Xylenes, Total	1.1	6.6	2.2	0.92	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-016

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01025

Initial Pressure (psig): -2.43 Final Pressure (psig): 7.23

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.3	1.4	0.58	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3.4	2.3	1.4	0.39	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	U
75-01-4	Vinyl Chloride	0.76	2.4	0.76	0.26	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.30	U
64-17-5	Ethanol	7.1	24	3.7	1.7	J
67-64-1	Acetone	8.7	23	12	5.4	J
75-69-4	Trichlorofluoromethane	1.3	2.3	1.4	0.36	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.5	2.8	0.98	U
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.67	U
76-13-1	Trichlorotrifluoroethane	0.47	2.4	0.76	0.34	J
75-15-0	Carbon Disulfide	3.7	4.5	2.4	0.72	J
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	1.8	4.5	1.4	0.49	J
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	U
110-54-3	n-Hexane	1.4	2.3	1.4	0.49	U
67-66-3	Chloroform	0.76	2.4	0.76	0.32	U
109-99-9	Tetrahydrofuran (THF)	1.1	4.5	0.76	0.30	J
107-06-2	1,2-Dichloroethane	0.76	2.3	0.76	0.26	U
71-43-2	Benzene	0.50	2.3	0.76	0.34	J
56-23-5	Carbon Tetrachloride	0.76	2.3	0.76	0.33	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV137-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-016

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01025

Initial Pressure (psig): -2.43 Final Pressure (psig): 7.23

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.67	U
75-27-4	Bromodichloromethane	0.76	2.3	0.76	0.34	U
79-01-6	Trichloroethene	0.76	2.3	0.76	0.32	U
123-91-1	1,4-Dioxane	<b>0.52</b>	2.3	0.76	0.28	J
142-82-5	n-Heptane	1.4	2.3	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	0.76	4.5	0.76	0.33	U
108-88-3	Toluene	<b>0.46</b>	2.3	0.76	0.29	J
591-78-6	2-Hexanone	<b>0.36</b>	4.5	0.76	0.30	J
124-48-1	Dibromochloromethane	0.76	2.3	0.76	0.31	U
106-93-4	1,2-Dibromoethane	0.76	2.3	0.76	0.28	U
127-18-4	Tetrachloroethene	<b>0.36</b>	2.3	0.76	0.31	J
100-41-4	Ethylbenzene	0.76	2.3	0.76	0.34	U
179601-23-1	m,p-Xylenes	1.5	4.5	1.5	0.63	U
75-25-2	Bromoform	1.4	2.4	1.4	0.49	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	0.76	2.4	0.76	0.34	U
108-67-8	1,3,5-Trimethylbenzene	0.76	2.4	0.76	0.34	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.38</b>	2.3	0.76	0.33	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.58	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.58	U
1330-20-7	Xylenes, Total	1.5	4.5	1.5	0.63	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-017

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00767

Initial Pressure (psig): -3.55 Final Pressure (psig): 7.38

Container Dilution Factor: 1.98

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.6	1.6	0.64	U
75-71-8	Dichlorodifluoromethane (CFC 12)	4.0	2.6	1.6	0.43	
74-87-3	Chloromethane	1.6	2.6	1.6	0.43	U
75-01-4	Vinyl Chloride	0.84	2.6	0.84	0.28	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.44	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	3.7	26	4.1	1.8	J
67-64-1	Acetone	13	26	13	5.9	U
75-69-4	Trichlorofluoromethane	1.5	2.5	1.6	0.40	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.1	5.0	3.1	1.1	U
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.74	U
76-13-1	Trichlorotrifluoroethane	0.50	2.6	0.84	0.38	J
75-15-0	Carbon Disulfide	2.0	5.0	2.7	0.79	J
75-34-3	1,1-Dichloroethane	1.6	2.7	1.6	0.39	U
78-93-3	2-Butanone (MEK)	0.97	5.0	1.6	0.54	J
141-78-6	Ethyl Acetate	3.2	5.0	3.2	1.4	U
110-54-3	n-Hexane	1.6	2.6	1.6	0.54	U
67-66-3	Chloroform	0.84	2.6	0.84	0.35	U
109-99-9	Tetrahydrofuran (THF)	21	5.0	0.84	0.33	
107-06-2	1,2-Dichloroethane	0.84	2.6	0.84	0.29	U
71-43-2	Benzene	0.48	2.6	0.84	0.38	J
56-23-5	Carbon Tetrachloride	0.84	2.5	0.84	0.37	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00767

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.55 Final Pressure (psig): 7.38

Container Dilution Factor: 1.98

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	5.0	1.7	0.74	U
75-27-4	Bromodichloromethane	0.84	2.6	0.84	0.38	U
79-01-6	Trichloroethene	<b>0.97</b>	2.5	0.84	0.36	J
123-91-1	1,4-Dioxane	0.84	2.6	0.84	0.31	U
142-82-5	n-Heptane	1.6	2.6	1.6	0.42	U
108-10-1	4-Methyl-2-pentanone	0.84	5.0	0.84	0.36	U
108-88-3	Toluene	<b>0.39</b>	2.6	0.84	0.32	J
591-78-6	2-Hexanone	0.84	5.0	0.84	0.33	U
124-48-1	Dibromochloromethane	0.84	2.6	0.84	0.35	U
106-93-4	1,2-Dibromoethane	0.84	2.6	0.84	0.31	U
127-18-4	Tetrachloroethene	<b>0.38</b>	2.6	0.84	0.34	J
100-41-4	Ethylbenzene	0.84	2.6	0.84	0.37	U
179601-23-1	m,p-Xylenes	1.7	5.0	1.7	0.69	U
75-25-2	Bromoform	1.6	2.6	1.6	0.54	U
100-42-5	Styrene	1.6	2.6	1.6	0.43	U
95-47-6	o-Xylene	0.84	2.6	0.84	0.38	U
108-67-8	1,3,5-Trimethylbenzene	0.84	2.6	0.84	0.38	U
95-63-6	1,2,4-Trimethylbenzene	0.84	2.6	0.84	0.37	U
120-82-1	1,2,4-Trichlorobenzene	1.6	5.0	1.6	0.64	U
91-20-3	Naphthalene	1.5	2.6	1.5	0.64	U
1330-20-7	Xylenes, Total	1.7	5.0	1.7	0.69	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-018

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00649

Initial Pressure (psig): -2.49 Final Pressure (psig): 7.50

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.2	2.4	1.5	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3.7	2.4	1.5	0.40	
74-87-3	Chloromethane	0.41	2.4	1.5	0.39	J
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	14	24	3.8	1.7	J
67-64-1	Acetone	31	24	12	5.5	
75-69-4	Trichlorofluoromethane	2.1	2.3	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.68	U
76-13-1	Trichlorotrifluoroethane	0.41	2.4	0.77	0.35	J
75-15-0	Carbon Disulfide	3.8	4.6	2.5	0.73	J
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.35	U
78-93-3	2-Butanone (MEK)	8.3	4.6	1.5	0.50	
141-78-6	Ethyl Acetate	4.3	4.6	3.0	1.3	J
110-54-3	n-Hexane	1.5	2.4	1.5	0.50	U
67-66-3	Chloroform	0.77	2.4	0.77	0.32	U
109-99-9	Tetrahydrofuran (THF)	6.0	4.6	0.77	0.30	
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	0.66	2.4	0.77	0.35	J
56-23-5	Carbon Tetrachloride	0.76	2.3	0.77	0.34	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00649

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 7.50

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.6	1.5	0.68	U
75-27-4	Bromodichloromethane	0.77	2.4	0.77	0.35	U
79-01-6	Trichloroethene	<b>0.96</b>	2.3	0.77	0.33	J
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	1.5	2.4	1.5	0.39	U
108-10-1	4-Methyl-2-pentanone	<b>0.34</b>	4.6	0.77	0.33	J
108-88-3	Toluene	<b>0.94</b>	2.4	0.77	0.30	J
591-78-6	2-Hexanone	<b>1.1</b>	4.6	0.77	0.30	J
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	<b>0.33</b>	2.4	0.77	0.31	J
100-41-4	Ethylbenzene	0.77	2.4	0.77	0.34	U
179601-23-1	m,p-Xylenes	1.5	4.6	1.5	0.64	U
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	0.77	2.4	0.77	0.35	U
108-67-8	1,3,5-Trimethylbenzene	0.77	2.4	0.77	0.35	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.46</b>	2.4	0.77	0.34	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	1.5	4.6	1.5	0.64	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00083

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0030 Liter(s)

0.0010 Liter(s)

Initial Pressure (psig): -5.61 Final Pressure (psig): 7.37

Container Dilution Factor: 2.43

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>510</b>	420	260	110	
75-71-8	Dichlorodifluoromethane (CFC 12)	260	420	260	70	<b>U</b>
74-87-3	Chloromethane	260	420	260	70	<b>U</b>
75-01-4	Vinyl Chloride	140	430	140	46	<b>U</b>
106-99-0	1,3-Butadiene	260	420	260	71	<b>U</b>
75-00-3	Chloroethane	260	420	260	53	<b>U</b>
64-17-5	Ethanol	670	4,300	670	300	<b>U</b>
67-64-1	Acetone	2,200	4,200	2,200	970	<b>U</b>
75-69-4	Trichlorofluoromethane	260	410	260	66	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>310</b>	810	510	180	<b>J</b>
75-09-2	Methylene Chloride	260	420	260	120	<b>U</b>
76-13-1	Trichlorotrifluoroethane	140	430	140	62	<b>U</b>
75-15-0	Carbon Disulfide	<b>160</b>	810	440	130	<b>J</b>
75-34-3	1,1-Dichloroethane	270	440	270	63	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>120</b>	810	260	89	<b>J</b>
141-78-6	Ethyl Acetate	530	810	530	230	<b>U</b>
110-54-3	n-Hexane	<b>700</b>	420	260	89	
67-66-3	Chloroform	140	430	140	58	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>70</b>	810	140	54	<b>J</b>
107-06-2	1,2-Dichloroethane	<b>120</b>	420	140	48	<b>J</b>
71-43-2	Benzene	<b>16,000</b>	420	140	62	
56-23-5	Carbon Tetrachloride	140	410	140	60	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00083

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0030 Liter(s)

0.0010 Liter(s)

Initial Pressure (psig): -5.61 Final Pressure (psig): 7.37

Container Dilution Factor: 2.43

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>18,000</b>	810	280	120	
75-27-4	Bromodichloromethane	140	420	140	62	U
79-01-6	Trichloroethene	<b>140</b>	410	140	58	J
123-91-1	1,4-Dioxane	140	420	140	51	U
142-82-5	n-Heptane	<b>920</b>	420	260	69	
108-10-1	4-Methyl-2-pentanone	140	810	140	59	U
108-88-3	Toluene	<b>61,000</b>	420	140	53	
591-78-6	2-Hexanone	140	810	140	53	U
124-48-1	Dibromochloromethane	140	420	140	57	U
106-93-4	1,2-Dibromoethane	<b>790</b>	420	140	50	
127-18-4	Tetrachloroethene	<b>160</b>	420	140	56	J
100-41-4	Ethylbenzene	<b>4,300</b>	420	140	61	
179601-23-1	m,p-Xylenes	<b>150,000</b>	810	280	110	
75-25-2	Bromoform	260	430	260	89	U
100-42-5	Styrene	260	420	260	70	U
95-47-6	o-Xylene	<b>66,000</b>	1,300	410	190	D
108-67-8	1,3,5-Trimethylbenzene	<b>12,000</b>	430	140	62	
95-63-6	1,2,4-Trimethylbenzene	<b>10,000</b>	420	140	60	
120-82-1	1,2,4-Trichlorobenzene	260	810	260	110	U
91-20-3	Naphthalene	250	420	250	110	U
1330-20-7	Xylenes, Total	<b>220,000</b>	2,400	830	340	D

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00337

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.97 Final Pressure (psig): 7.45

Container Dilution Factor: 1.74

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>1.1</b>	2.3	1.4	0.57	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.4</b>	2.3	1.4	0.38	
74-87-3	Chloromethane	1.4	2.3	1.4	0.37	<b>U</b>
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	<b>U</b>
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.38	<b>U</b>
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	<b>U</b>
64-17-5	Ethanol	<b>21</b>	23	3.6	1.6	<b>J</b>
67-64-1	Acetone	<b>53</b>	23	12	5.2	
75-69-4	Trichlorofluoromethane	<b>2.1</b>	2.2	1.4	0.35	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.4	2.7	0.96	<b>U</b>
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.65	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>18</b>	2.3	0.74	0.33	
75-15-0	Carbon Disulfide	<b>3.0</b>	4.4	2.3	0.70	<b>J</b>
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.34	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>11</b>	4.4	1.4	0.48	
141-78-6	Ethyl Acetate	<b>29</b>	4.4	2.8	1.2	
110-54-3	n-Hexane	1.4	2.3	1.4	0.48	<b>U</b>
67-66-3	Chloroform	<b>1.3</b>	2.3	0.74	0.31	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>0.37</b>	4.4	0.74	0.29	<b>J</b>
107-06-2	1,2-Dichloroethane	0.74	2.3	0.74	0.26	<b>U</b>
71-43-2	Benzene	<b>0.50</b>	2.3	0.74	0.33	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>8.3</b>	2.2	0.74	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00337

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.97 Final Pressure (psig): 7.45

Container Dilution Factor: 1.74

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.4	1.5	0.65	U
75-27-4	Bromodichloromethane	0.74	2.3	0.74	0.33	U
79-01-6	Trichloroethene	0.74	2.2	0.74	0.31	U
123-91-1	1,4-Dioxane	0.74	2.3	0.74	0.27	U
142-82-5	n-Heptane	<b>0.54</b>	2.3	1.4	0.37	J
108-10-1	4-Methyl-2-pentanone	<b>0.54</b>	4.4	0.74	0.32	J
108-88-3	Toluene	<b>2.1</b>	2.3	0.74	0.28	J
591-78-6	2-Hexanone	<b>1.2</b>	4.4	0.74	0.29	J
124-48-1	Dibromochloromethane	0.74	2.3	0.74	0.30	U
106-93-4	1,2-Dibromoethane	0.74	2.3	0.74	0.27	U
127-18-4	Tetrachloroethene	0.74	2.3	0.74	0.30	U
100-41-4	Ethylbenzene	<b>0.33</b>	2.3	0.74	0.33	J
179601-23-1	m,p-Xylenes	<b>1.7</b>	4.4	1.5	0.61	J
75-25-2	Bromoform	1.4	2.3	1.4	0.48	U
100-42-5	Styrene	1.4	2.3	1.4	0.37	U
95-47-6	o-Xylene	<b>0.67</b>	2.3	0.74	0.33	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.57</b>	2.3	0.74	0.33	J
95-63-6	1,2,4-Trimethylbenzene	<b>2.9</b>	2.3	0.74	0.32	
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.57	U
91-20-3	Naphthalene	<b>2.3</b>	2.3	1.3	0.57	J
1330-20-7	Xylenes, Total	<b>2.3</b>	4.4	1.5	0.61	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/12/20

Analyst: Lusine Hakobyan/Wida Ang

Date(s) Received: 10/19/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 11/2 - 11/3/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201102-MB	100	102	103	70-130	
Method Blank	P201103-MB	100	101	104	70-130	
Lab Control Sample	P201102-LCS	99	98	103	70-130	
Lab Control Sample	P201103-LCS	98	97	104	70-130	
Duplicate Lab Control Sample	P201102-DLCS	98	98	103	70-130	
Duplicate Lab Control Sample	P201103-DLCS	99	98	104	70-130	
SV134-050-204	P2005896-001	99	101	106	70-130	
SV134-170-204	P2005896-002	99	101	105	70-130	
SV134-250-204	P2005896-003	100	101	105	70-130	
SV134-350-204	P2005896-004	99	101	105	70-130	
SV134-350-604	P2005896-005	99	101	109	70-130	
SV134-450-204	P2005896-006	100	105	104	70-130	
SV134-450-204	P2005896-006DUP	99	103	105	70-130	
SV135-025-204	P2005896-007	100	101	107	70-130	
SV135-050-204	P2005896-008	99	102	107	70-130	
SV135-150-204	P2005896-009	98	101	107	70-130	
SV135-250-604	P2005896-010	98	102	108	70-130	
SV135-250-204	P2005896-011	98	101	108	70-130	
SV135-350-204	P2005896-012	98	101	106	70-130	
SV135-450-204	P2005896-013	98	103	108	70-130	
SV137-025-204	P2005896-014	99	101	106	70-130	
SV137-050-204	P2005896-015	99	99	106	70-130	
SV137-150-204	P2005896-016	100	99	106	70-130	
SV137-250-204	P2005896-017	99	99	105	70-130	
SV137-350-204	P2005896-018	99	100	106	70-130	
SV137-450-204	P2005896-019	100	98	104	70-130	
SV139-025-204	P2005896-020	100	100	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
115-07-1	Propene	210	219	215		<b>104</b>	<b>102</b>	57-136	2	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	198	194		<b>94</b>	<b>92</b>	59-128	2	25
74-87-3	Chloromethane	206	185	176		<b>90</b>	<b>85</b>	59-132	6	25
75-01-4	Vinyl Chloride	208	201	195		<b>97</b>	<b>94</b>	64-127	3	25
106-99-0	1,3-Butadiene	210	209	206		<b>100</b>	<b>98</b>	66-134	2	25
75-00-3	Chloroethane	204	196	191		<b>96</b>	<b>94</b>	63-127	2	25
64-17-5	Ethanol	998	954	936		<b>96</b>	<b>94</b>	59-125	2	25
67-64-1	Acetone	1,030	956	929		<b>93</b>	<b>90</b>	58-128	3	25
75-69-4	Trichlorofluoromethane	204	198	194		<b>97</b>	<b>95</b>	62-126	2	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	360	349		<b>88</b>	<b>86</b>	52-125	2	25
75-09-2	Methylene Chloride	208	196	191		<b>94</b>	<b>92</b>	62-115	2	25
76-13-1	Trichlorotrifluoroethane	214	207	203		<b>97</b>	<b>95</b>	66-126	2	25
75-15-0	Carbon Disulfide	428	421	409		<b>98</b>	<b>96</b>	57-134	2	25
75-34-3	1,1-Dichloroethane	212	202	197		<b>95</b>	<b>93</b>	68-126	2	25
78-93-3	2-Butanone (MEK)	412	425	416		<b>103</b>	<b>101</b>	67-130	2	25
141-78-6	Ethyl Acetate	422	539	521		<b>128</b>	<b>123</b>	65-128	4	25
110-54-3	n-Hexane	212	227	219		<b>107</b>	<b>103</b>	63-120	4	25
67-66-3	Chloroform	214	205	200		<b>96</b>	<b>93</b>	68-123	3	25
109-99-9	Tetrahydrofuran (THF)	400	394	385		<b>99</b>	<b>96</b>	64-123	3	25
107-06-2	1,2-Dichloroethane	208	205	198		<b>99</b>	<b>95</b>	65-128	4	25
71-43-2	Benzene	204	195	191		<b>96</b>	<b>94</b>	69-119	2	25
56-23-5	Carbon Tetrachloride	210	203	199		<b>97</b>	<b>95</b>	68-132	2	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	419	408	101	98	70-117	3	25	
75-27-4	Bromodichloromethane	210	217	211	103	100	72-128	3	25	
79-01-6	Trichloroethene	206	199	195	97	95	71-123	2	25	
123-91-1	1,4-Dioxane	208	212	207	102	100	71-122	2	25	
142-82-5	n-Heptane	210	207	203	99	97	69-123	2	25	
108-10-1	4-Methyl-2-pentanone	416	443	434	106	104	67-130	2	25	
108-88-3	Toluene	206	199	196	97	95	66-119	2	25	
591-78-6	2-Hexanone	404	443	434	110	107	62-128	3	25	
124-48-1	Dibromochloromethane	210	226	222	108	106	70-130	2	25	
106-93-4	1,2-Dibromoethane	208	214	208	103	100	74-122	3	25	
127-18-4	Tetrachloroethene	206	206	201	100	98	66-124	2	25	
100-41-4	Ethylbenzene	206	208	204	101	99	70-124	2	25	
179601-23-1	m,p-Xylenes	412	426	416	103	101	61-134	2	25	
75-25-2	Bromoform	208	218	213	105	102	66-139	3	25	
100-42-5	Styrene	206	226	222	110	108	73-127	2	25	
95-47-6	o-Xylene	206	214	208	104	101	67-125	3	25	
108-67-8	1,3,5-Trimethylbenzene	206	221	215	107	104	67-130	3	25	
95-63-6	1,2,4-Trimethylbenzene	204	239	231	117	113	66-132	3	25	
120-82-1	1,2,4-Trichlorobenzene	388	490	480	126	124	55-142	2	25	
91-20-3	Naphthalene	198	232	229	117	116	57-138	0.9	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
115-07-1	Propene	210	215	212		<b>102</b>	<b>101</b>	57-136	1	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	195	195		<b>93</b>	<b>93</b>	59-128	0	25
74-87-3	Chloromethane	206	173	170		<b>84</b>	<b>83</b>	59-132	1	25
75-01-4	Vinyl Chloride	208	196	194		<b>94</b>	<b>93</b>	64-127	1	25
106-99-0	1,3-Butadiene	210	202	207		<b>96</b>	<b>99</b>	66-134	3	25
75-00-3	Chloroethane	204	192	191		<b>94</b>	<b>94</b>	63-127	0	25
64-17-5	Ethanol	998	927	935		<b>93</b>	<b>94</b>	59-125	1	25
67-64-1	Acetone	1,030	935	931		<b>91</b>	<b>90</b>	58-128	1	25
75-69-4	Trichlorofluoromethane	204	196	195		<b>96</b>	<b>96</b>	62-126	0	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	355	352		<b>87</b>	<b>86</b>	52-125	1	25
75-09-2	Methylene Chloride	208	194	192		<b>93</b>	<b>92</b>	62-115	1	25
76-13-1	Trichlorotrifluoroethane	214	205	204		<b>96</b>	<b>95</b>	66-126	1	25
75-15-0	Carbon Disulfide	428	413	410		<b>96</b>	<b>96</b>	57-134	0	25
75-34-3	1,1-Dichloroethane	212	199	197		<b>94</b>	<b>93</b>	68-126	1	25
78-93-3	2-Butanone (MEK)	412	418	415		<b>101</b>	<b>101</b>	67-130	0	25
141-78-6	Ethyl Acetate	422	523	519		<b>124</b>	<b>123</b>	65-128	0.8	25
110-54-3	n-Hexane	212	220	217		<b>104</b>	<b>102</b>	63-120	2	25
67-66-3	Chloroform	214	201	200		<b>94</b>	<b>93</b>	68-123	1	25
109-99-9	Tetrahydrofuran (THF)	400	387	383		<b>97</b>	<b>96</b>	64-123	1	25
107-06-2	1,2-Dichloroethane	208	199	198		<b>96</b>	<b>95</b>	65-128	1	25
71-43-2	Benzene	204	192	190		<b>94</b>	<b>93</b>	69-119	1	25
56-23-5	Carbon Tetrachloride	210	200	197		<b>95</b>	<b>94</b>	68-132	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	413	406		<b>99</b>	<b>98</b>	70-117	1	25
75-27-4	Bromodichloromethane	210	212	210		<b>101</b>	<b>100</b>	72-128	1	25
79-01-6	Trichloroethene	206	196	194		<b>95</b>	<b>94</b>	71-123	1	25
123-91-1	1,4-Dioxane	208	208	205		<b>100</b>	<b>99</b>	71-122	1	25
142-82-5	n-Heptane	210	204	203		<b>97</b>	<b>97</b>	69-123	0	25
108-10-1	4-Methyl-2-pentanone	416	435	428		<b>105</b>	<b>103</b>	67-130	2	25
108-88-3	Toluene	206	195	194		<b>95</b>	<b>94</b>	66-119	1	25
591-78-6	2-Hexanone	404	430	427		<b>106</b>	<b>106</b>	62-128	0	25
124-48-1	Dibromochloromethane	210	222	222		<b>106</b>	<b>106</b>	70-130	0	25
106-93-4	1,2-Dibromoethane	208	209	208		<b>100</b>	<b>100</b>	74-122	0	25
127-18-4	Tetrachloroethene	206	202	201		<b>98</b>	<b>98</b>	66-124	0	25
100-41-4	Ethylbenzene	206	203	202		<b>99</b>	<b>98</b>	70-124	1	25
179601-23-1	m,p-Xylenes	412	415	411		<b>101</b>	<b>100</b>	61-134	1	25
75-25-2	Bromoform	208	214	213		<b>103</b>	<b>102</b>	66-139	1	25
100-42-5	Styrene	206	222	220		<b>108</b>	<b>107</b>	73-127	0.9	25
95-47-6	o-Xylene	206	209	206		<b>101</b>	<b>100</b>	67-125	1	25
108-67-8	1,3,5-Trimethylbenzene	206	216	212		<b>105</b>	<b>103</b>	67-130	2	25
95-63-6	1,2,4-Trimethylbenzene	204	229	227		<b>112</b>	<b>111</b>	66-132	0.9	25
120-82-1	1,2,4-Trichlorobenzene	388	473	471		<b>122</b>	<b>121</b>	55-142	0.8	25
91-20-3	Naphthalene	198	224	224		<b>113</b>	<b>113</b>	57-138	0	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-006DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00776

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -3.19

Final Pressure (psig): 7.60

Initial Pressure 2 (psig): 0.15

Final Pressure 2 (psig): 4.51

Container Dilution Factor: 2.51

Compound	Sample Result µg/m <sup>3</sup>	Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
		Sample Result µg/m <sup>3</sup>	Sample Result µg/m <sup>3</sup>				
Propene	ND	ND	ND	-	-	25	
Dichlorodifluoromethane (CFC 12)	ND	ND	ND	-	-	25	
Chloromethane	31	31	31	31	0	25	J
Vinyl Chloride	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	-	-	25	
Ethanol	ND	ND	ND	-	-	25	
Acetone	ND	ND	ND	-	-	25	
Trichlorofluoromethane	ND	ND	ND	-	-	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	-	-	25	
Methylene Chloride	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	-	-	25	
Carbon Disulfide	110	110	110	110	0	25	J
1,1-Dichloroethane	ND	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	ND	-	-	25	
Ethyl Acetate	110	110	110	110	0	25	J
n-Hexane	74	73	73	73.5	1	25	J
Chloroform	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	22	20	21	21	10	25	J
1,2-Dichloroethane	ND	ND	ND	-	-	25	
Benzene	610	610	610	610	0	25	
Carbon Tetrachloride	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-006DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00776

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -3.19

Final Pressure (psig): 7.60

Initial Pressure 2 (psig): 0.15

Final Pressure 2 (psig): 4.51

Container Dilution Factor: 2.51

Compound	Sample Result µg/m <sup>3</sup>	Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
		Sample Result µg/m <sup>3</sup>	Sample Result µg/m <sup>3</sup>				
Cyclohexane	56	57	56.5	2	25	J	
Bromodichloromethane	ND	ND	-	-	25		
Trichloroethene	18	17	17.5	6	25	J	
1,4-Dioxane	ND	ND	-	-	25		
n-Heptane	44	40	42	10	25	J	
4-Methyl-2-pentanone	ND	ND	-	-	25		
Toluene	99	95	97	4	25		
2-Hexanone	ND	ND	-	-	25		
Dibromochloromethane	ND	ND	-	-	25		
1,2-Dibromoethane	ND	ND	-	-	25		
Tetrachloroethene	ND	ND	-	-	25		
Ethylbenzene	19	19	19	0	25	J	
m,p-Xylenes	ND	ND	-	-	25		
Bromoform	ND	ND	-	-	25		
Styrene	ND	ND	-	-	25		
o-Xylene	84	81	82.5	4	25	J	
1,3,5-Trimethylbenzene	43	42	42.5	2	25	J	
1,2,4-Trimethylbenzene	ND	ND	-	-	25		
1,2,4-Trichlorobenzene	ND	ND	-	-	25		
Naphthalene	ND	ND	-	-	25		
Xylenes, Total	84	81	82.5	4	25	J	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005896  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 11022001.D  
Analyst: Wida Ang Date Analyzed: 11/2/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 03:33  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	150791	11.22	651765	13.34	142872	17.64
<b>Upper Limit</b>	211107	11.55	912471	13.67	200021	17.97
<b>Lower Limit</b>	90475	10.89	391059	13.01	85723	17.31

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	143213	11.19	629881	13.32	127904	17.64
02	Lab Control Sample	152126	11.22	663627	13.34	141810	17.64
03	Duplicate Lab Control Sample	162637	11.22	703542	13.34	150147	17.64
04	SV134-050-204	160325	11.20	700683	13.33	145881	17.64
05	SV134-170-204	155202	11.20	671132	13.33	138997	17.64
06	SV134-250-204	152838	11.20	667523	13.32	138762	17.64
07	SV134-350-204	154510	11.20	672944	13.32	140566	17.64
08	SV134-350-604	157366	11.20	681015	13.32	144131	17.64
09	SV135-025-204	163614	11.20	712963	13.33	147373	17.64
10	SV135-050-204	158481	11.20	695640	13.33	141739	17.64
11	SV135-150-204	160724	11.20	701252	13.33	144391	17.64
12	SV135-150-204 (Dilution)	174260	11.20	766481	13.32	155301	17.64
13	SV137-450-204 (Dilution)	156388	11.20	685471	13.33	142988	17.64
14	SV134-450-204	167990	11.20	734577	13.32	152177	17.64
15	SV134-450-204 (Lab Duplicate)	170298	11.20	737170	13.33	156276	17.64
16	SV137-450-204	159116	11.20	705484	13.33	151308	17.64
17	SV135-250-604	168012	11.20	731545	13.33	149752	17.64
18	SV135-250-204	171265	11.20	742787	13.33	154261	17.64
19	SV135-350-204	163864	11.20	709169	13.32	146524	17.64
20	SV135-450-204	172520	11.20	751292	13.33	153237	17.64

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005896  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 11022001.D  
Analyst: Wida Ang Date Analyzed: 11/2/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 03:33  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	150791	11.22	651765	13.34	142872	17.64
<b>Upper Limit</b>	211107	11.55	912471	13.67	200021	17.97
<b>Lower Limit</b>	90475	10.89	391059	13.01	85723	17.31

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
21	SV137-025-204	163583	11.19	709407	13.32	147106	17.64
22	SV137-150-204	154532	11.20	673921	13.32	143082	17.64
23	SV137-250-204	152604	11.19	664112	13.32	141173	17.64
24	SV137-350-204	157775	11.20	679393	13.32	142746	17.64
25	SV139-025-204	153672	11.20	672056	13.32	141839	17.64
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005896  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 11032001.D  
Analyst: Lusine Hakobyan Date Analyzed: 11/3/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 01:23  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)						
	AREA	#	RT	#	AREA	#	RT	#			
<b>24 Hour Standard</b>	169628		11.22		728819		13.34		159849		17.64
<b>Upper Limit</b>	237479		11.55		1020347		13.67		223789		17.97
<b>Lower Limit</b>	101777		10.89		437291		13.01		95909		17.31

## Client Sample ID

Client Sample ID	IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
01 Method Blank	149737	11.19	662554 13.32 136526 17.64
02 Lab Control Sample	160922	11.22	697080 13.34 149968 17.64
03 Duplicate Lab Control Sample	166755	11.22	725248 13.34 154706 17.64
04 SV135-250-204 (Dilution)	175977	11.20	770298 13.32 161819 17.64
05 SV137-050-204	160929	11.19	703244 13.32 147136 17.64
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00915

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.20 Final Pressure (psig): 7.39

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.72</b>	1.5	0.89	0.36	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.49</b>	0.50	0.31	0.084	<b>J</b>
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	<b>U</b>
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	<b>U</b>
75-00-3	Chloroethane	0.58	0.95	0.58	0.12	<b>U</b>
64-17-5	Ethanol	<b>9.4</b>	14	2.1	0.94	<b>J</b>
67-64-1	Acetone	<b>16</b>	11	5.5	2.4	
75-69-4	Trichlorofluoromethane	<b>0.19</b>	0.44	0.27	0.069	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	<b>U</b>
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.11</b>	0.33	0.11	0.048	<b>J</b>
75-15-0	Carbon Disulfide	<b>1.9</b>	1.5	0.83	0.25	
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.9</b>	1.6	0.52	0.18	
141-78-6	Ethyl Acetate	<b>0.42</b>	1.3	0.87	0.37	<b>J</b>
110-54-3	n-Hexane	<b>0.28</b>	0.71	0.44	0.15	<b>J</b>
67-66-3	Chloroform	0.17	0.52	0.17	0.070	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>0.14</b>	1.6	0.28	0.11	<b>J</b>
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	<b>U</b>
71-43-2	Benzene	<b>0.14</b>	0.78	0.26	0.12	<b>J</b>
56-23-5	Carbon Tetrachloride	0.13	0.39	0.13	0.056	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV134-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-001

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00915

Initial Pressure (psig): -3.20 Final Pressure (psig): 7.39

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	<b>2.9</b>	0.46	0.15	0.064	
123-91-1	1,4-Dioxane	0.23	0.69	0.23	0.084	U
142-82-5	n-Heptane	<b>0.16</b>	0.61	0.37	0.10	J
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	<b>0.39</b>	0.66	0.22	0.083	J
591-78-6	2-Hexanone	<b>0.22</b>	1.2	0.20	0.077	J
124-48-1	Dibromochloromethane	0.096	0.29	0.096	0.039	U
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.095</b>	0.37	0.12	0.049	J
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.083	U
179601-23-1	m,p-Xylenes	<b>0.21</b>	1.1	0.38	0.15	J
75-25-2	Bromoform	0.15	0.25	0.15	0.051	U
100-42-5	Styrene	0.36	0.59	0.36	0.097	U
95-47-6	o-Xylene	<b>0.097</b>	0.59	0.19	0.085	J
108-67-8	1,3,5-Trimethylbenzene	0.17	0.52	0.17	0.075	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.15</b>	0.51	0.17	0.072	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.084	U
91-20-3	Naphthalene	0.28	0.48	0.28	0.12	U
1330-20-7	Xylenes, Total	<b>0.31</b>	1.1	0.38	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00525

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.73    Final Pressure (psig): 7.47  
 Initial Pressure 2 (psig): 0.01    Final Pressure 2 (psig): 7.24

Container Dilution Factor: 2.76

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.3	2.1	1.3	0.52	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.53</b>	0.73	0.45	0.12	J
74-87-3	Chloromethane	1.1	1.7	1.1	0.29	U
75-01-4	Vinyl Chloride	0.46	1.4	0.46	0.15	U
106-99-0	1,3-Butadiene	1.0	1.6	1.0	0.27	U
75-00-3	Chloroethane	0.84	1.4	0.84	0.17	U
64-17-5	Ethanol	<b>4.9</b>	19	3.0	1.4	J
67-64-1	Acetone	<b>18</b>	15	7.8	3.5	J
75-69-4	Trichlorofluoromethane	<b>0.20</b>	0.63	0.39	0.099	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.8	2.8	1.8	0.62	U
75-09-2	Methylene Chloride	0.64	1.0	0.64	0.30	U
76-13-1	Trichlorotrifluoroethane	<b>0.19</b>	0.48	0.15	0.068	J
75-15-0	Carbon Disulfide	<b>2.9</b>	2.2	1.2	0.35	J
75-34-3	1,1-Dichloroethane	0.56	0.92	0.56	0.13	U
78-93-3	2-Butanone (MEK)	<b>1.5</b>	2.3	0.75	0.26	J
141-78-6	Ethyl Acetate	1.2	1.9	1.2	0.54	U
110-54-3	n-Hexane	0.63	1.0	0.63	0.22	U
67-66-3	Chloroform	<b>0.10</b>	0.75	0.24	0.10	J
109-99-9	Tetrahydrofuran (THF)	<b>1.2</b>	2.3	0.40	0.16	J
107-06-2	1,2-Dichloroethane	0.29	0.89	0.29	0.10	U
71-43-2	Benzene	<b>0.23</b>	1.1	0.37	0.17	J
56-23-5	Carbon Tetrachloride	0.19	0.56	0.19	0.081	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-170-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00525

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.73    Final Pressure (psig): 7.47  
 Initial Pressure 2 (psig): 0.01    Final Pressure 2 (psig): 7.24

Container Dilution Factor: 2.76

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.68	2.0	0.68	0.30	U
75-27-4	Bromodichloromethane	0.18	0.54	0.18	0.079	U
79-01-6	Trichloroethene	<b>11</b>	0.66	0.22	0.092	
123-91-1	1,4-Dioxane	0.33	1.0	0.33	0.12	U
142-82-5	n-Heptane	0.54	0.88	0.54	0.14	U
108-10-1	4-Methyl-2-pentanone	0.29	1.7	0.29	0.12	U
108-88-3	Toluene	<b>0.32</b>	0.95	0.31	0.12	J
591-78-6	2-Hexanone	0.29	1.7	0.29	0.11	U
124-48-1	Dibromochloromethane	0.14	0.42	0.14	0.057	U
106-93-4	1,2-Dibromoethane	0.15	0.47	0.15	0.056	U
127-18-4	Tetrachloroethene	<b>0.20</b>	0.53	0.17	0.070	J
100-41-4	Ethylbenzene	0.27	0.83	0.27	0.12	U
179601-23-1	m,p-Xylenes	<b>0.24</b>	1.6	0.54	0.22	J
75-25-2	Bromoform	0.21	0.35	0.21	0.073	U
100-42-5	Styrene	0.52	0.84	0.52	0.14	U
95-47-6	o-Xylene	0.27	0.84	0.27	0.12	U
108-67-8	1,3,5-Trimethylbenzene	0.24	0.74	0.24	0.11	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.15</b>	0.73	0.24	0.10	J
120-82-1	1,2,4-Trichlorobenzene	0.30	0.93	0.30	0.12	U
91-20-3	Naphthalene	0.41	0.68	0.41	0.17	U
1330-20-7	Xylenes, Total	<b>0.24</b>	1.6	0.54	0.22	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00854

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.21 Final Pressure (psig): 7.50

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.48</b>	1.6	0.99	0.40	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.50</b>	0.56	0.34	0.093	<b>J</b>
74-87-3	Chloromethane	0.82	1.3	0.82	0.22	<b>U</b>
75-01-4	Vinyl Chloride	0.35	1.1	0.35	0.12	<b>U</b>
106-99-0	1,3-Butadiene	0.77	1.2	0.77	0.21	<b>U</b>
75-00-3	Chloroethane	0.64	1.0	0.64	0.13	<b>U</b>
64-17-5	Ethanol	<b>5.3</b>	15	2.3	1.0	<b>J</b>
67-64-1	Acetone	<b>4.9</b>	12	6.0	2.7	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.18</b>	0.48	0.30	0.076	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.47	<b>U</b>
75-09-2	Methylene Chloride	<b>1.8</b>	0.79	0.49	0.23	
76-13-1	Trichlorotrifluoroethane	<b>0.21</b>	0.37	0.12	0.053	<b>J</b>
75-15-0	Carbon Disulfide	<b>2.7</b>	1.7	0.92	0.27	
75-34-3	1,1-Dichloroethane	0.43	0.71	0.43	0.10	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>0.70</b>	1.8	0.58	0.20	<b>J</b>
141-78-6	Ethyl Acetate	<b>0.72</b>	1.5	0.96	0.41	<b>J</b>
110-54-3	n-Hexane	0.48	0.78	0.48	0.17	<b>U</b>
67-66-3	Chloroform	<b>0.10</b>	0.58	0.18	0.077	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>2.8</b>	1.8	0.31	0.12	
107-06-2	1,2-Dichloroethane	0.22	0.68	0.22	0.077	<b>U</b>
71-43-2	Benzene	<b>0.26</b>	0.86	0.28	0.13	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.084</b>	0.43	0.14	0.062	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00854

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.21 Final Pressure (psig): 7.50

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.52	1.5	0.52	0.23	U
75-27-4	Bromodichloromethane	0.13	0.41	0.13	0.061	U
79-01-6	Trichloroethene	<b>11</b>	0.50	0.17	0.071	
123-91-1	1,4-Dioxane	0.25	0.77	0.25	0.093	U
142-82-5	n-Heptane	0.41	0.67	0.41	0.11	U
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.094	U
108-88-3	Toluene	<b>0.46</b>	0.73	0.24	0.091	J
591-78-6	2-Hexanone	0.22	1.3	0.22	0.085	U
124-48-1	Dibromochloromethane	0.11	0.32	0.11	0.044	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	U
127-18-4	Tetrachloroethene	<b>0.17</b>	0.41	0.13	0.054	J
100-41-4	Ethylbenzene	0.21	0.63	0.21	0.092	U
179601-23-1	m,p-Xylenes	<b>0.35</b>	1.2	0.42	0.17	J
75-25-2	Bromoform	0.16	0.27	0.16	0.056	U
100-42-5	Styrene	0.40	0.65	0.40	0.11	U
95-47-6	o-Xylene	<b>0.15</b>	0.65	0.21	0.094	J
108-67-8	1,3,5-Trimethylbenzene	0.18	0.57	0.18	0.083	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.24</b>	0.56	0.18	0.080	J
120-82-1	1,2,4-Trichlorobenzene	0.23	0.71	0.23	0.093	U
91-20-3	Naphthalene	0.31	0.53	0.31	0.13	U
1330-20-7	Xylenes, Total	<b>0.50</b>	1.2	0.42	0.17	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00121

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.58    Final Pressure (psig): 7.53  
 Initial Pressure 2 (psig): 0.10    Final Pressure 2 (psig): 6.61

Container Dilution Factor: 2.64

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.72	2.0	1.2	0.50	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.52	0.69	0.43	0.12	J
74-87-3	Chloromethane	1.0	1.7	1.0	0.27	U
75-01-4	Vinyl Chloride	0.44	1.4	0.44	0.15	U
106-99-0	1,3-Butadiene	0.96	1.6	0.96	0.26	U
75-00-3	Chloroethane	0.80	1.3	0.80	0.17	U
64-17-5	Ethanol	5.1	19	2.9	1.3	J
67-64-1	Acetone	5.7	14	7.5	3.3	J
75-69-4	Trichlorofluoromethane	0.19	0.60	0.38	0.095	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.7	2.7	1.7	0.59	U
75-09-2	Methylene Chloride	0.61	0.99	0.61	0.29	U
76-13-1	Trichlorotrifluoroethane	0.13	0.46	0.15	0.065	J
75-15-0	Carbon Disulfide	8.3	2.1	1.1	0.34	
75-34-3	1,1-Dichloroethane	0.54	0.88	0.54	0.13	U
78-93-3	2-Butanone (MEK)	1.3	2.2	0.72	0.25	J
141-78-6	Ethyl Acetate	1.2	1.8	1.2	0.51	U
110-54-3	n-Hexane	0.60	0.97	0.60	0.21	U
67-66-3	Chloroform	0.16	0.72	0.23	0.096	J
109-99-9	Tetrahydrofuran (THF)	2.6	2.2	0.38	0.15	
107-06-2	1,2-Dichloroethane	0.28	0.85	0.28	0.096	U
71-43-2	Benzene	1.3	1.1	0.35	0.16	
56-23-5	Carbon Tetrachloride	0.082	0.54	0.18	0.078	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00121

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.58    Final Pressure (psig): 7.53  
 Initial Pressure 2 (psig): 0.10    Final Pressure 2 (psig): 6.61

Container Dilution Factor: 2.64

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.65	1.9	0.65	0.29	U
75-27-4	Bromodichloromethane	0.17	0.51	0.17	0.076	U
79-01-6	Trichloroethene	<b>4.0</b>	0.63	0.21	0.088	
123-91-1	1,4-Dioxane	<b>0.21</b>	0.95	0.31	0.12	J
142-82-5	n-Heptane	0.52	0.84	0.52	0.14	U
108-10-1	4-Methyl-2-pentanone	0.27	1.6	0.27	0.12	U
108-88-3	Toluene	<b>0.40</b>	0.91	0.30	0.11	J
591-78-6	2-Hexanone	0.27	1.6	0.27	0.11	U
124-48-1	Dibromochloromethane	0.13	0.40	0.13	0.054	U
106-93-4	1,2-Dibromoethane	0.15	0.45	0.15	0.053	U
127-18-4	Tetrachloroethene	<b>0.10</b>	0.51	0.17	0.067	J
100-41-4	Ethylbenzene	0.26	0.79	0.26	0.11	U
179601-23-1	m,p-Xylenes	<b>0.26</b>	1.5	0.52	0.21	J
75-25-2	Bromoform	0.20	0.34	0.20	0.070	U
100-42-5	Styrene	0.50	0.81	0.50	0.13	U
95-47-6	o-Xylene	0.26	0.81	0.26	0.12	U
108-67-8	1,3,5-Trimethylbenzene	0.23	0.71	0.23	0.10	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.16</b>	0.70	0.23	0.099	J
120-82-1	1,2,4-Trichlorobenzene	0.28	0.89	0.28	0.12	U
91-20-3	Naphthalene	0.39	0.65	0.39	0.16	U
1330-20-7	Xylenes, Total	<b>0.26</b>	1.5	0.52	0.21	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-350-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00036

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -0.03 Final Pressure (psig): 7.97

Container Dilution Factor: 1.55

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.3	1.2	0.72	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.54	0.41	0.25	0.068	
74-87-3	Chloromethane	0.32	0.98	0.60	0.16	J
75-01-4	Vinyl Chloride	0.26	0.80	0.26	0.086	U
106-99-0	1,3-Butadiene	0.56	0.91	0.56	0.15	U
75-00-3	Chloroethane	0.21	0.76	0.47	0.097	J
64-17-5	Ethanol	12	11	1.7	0.76	
67-64-1	Acetone	31	8.5	4.4	2.0	
75-69-4	Trichlorofluoromethane	0.19	0.35	0.22	0.056	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.6	0.99	0.35	J
75-09-2	Methylene Chloride	8.1	0.58	0.36	0.17	
76-13-1	Trichlorotrifluoroethane	0.12	0.27	0.086	0.038	J
75-15-0	Carbon Disulfide	7.8	1.2	0.67	0.20	
75-34-3	1,1-Dichloroethane	0.32	0.52	0.32	0.075	U
78-93-3	2-Butanone (MEK)	4.6	1.3	0.42	0.14	
141-78-6	Ethyl Acetate	0.82	1.1	0.70	0.30	J
110-54-3	n-Hexane	0.15	0.57	0.35	0.12	J
67-66-3	Chloroform	0.15	0.42	0.13	0.056	J
109-99-9	Tetrahydrofuran (THF)	2.0	1.3	0.22	0.088	
107-06-2	1,2-Dichloroethane	0.16	0.50	0.16	0.057	U
71-43-2	Benzene	0.35	0.63	0.21	0.093	J
56-23-5	Carbon Tetrachloride	0.083	0.31	0.10	0.046	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV134-350-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-005

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00036

Initial Pressure (psig): -0.03 Final Pressure (psig): 7.97

Container Dilution Factor: 1.55

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.38	1.1	0.38	0.17	U
75-27-4	Bromodichloromethane	0.098	0.30	0.098	0.045	U
79-01-6	Trichloroethene	<b>3.3</b>	0.37	0.12	0.052	
123-91-1	1,4-Dioxane	<b>0.21</b>	0.56	0.18	0.068	J
142-82-5	n-Heptane	<b>0.15</b>	0.49	0.30	0.080	J
108-10-1	4-Methyl-2-pentanone	<b>0.12</b>	0.95	0.16	0.069	J
108-88-3	Toluene	<b>1.3</b>	0.53	0.17	0.067	
591-78-6	2-Hexanone	<b>0.54</b>	0.95	0.16	0.062	J
124-48-1	Dibromochloromethane	0.077	0.24	0.077	0.032	U
106-93-4	1,2-Dibromoethane	0.086	0.26	0.086	0.031	U
127-18-4	Tetrachloroethene	<b>0.091</b>	0.30	0.097	0.039	J
100-41-4	Ethylbenzene	<b>0.091</b>	0.46	0.15	0.067	J
179601-23-1	m,p-Xylenes	<b>0.58</b>	0.89	0.30	0.12	J
75-25-2	Bromoform	0.12	0.20	0.12	0.041	U
100-42-5	Styrene	0.29	0.47	0.29	0.078	U
95-47-6	o-Xylene	<b>0.25</b>	0.47	0.15	0.069	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.097</b>	0.42	0.13	0.061	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.36</b>	0.41	0.13	0.058	J
120-82-1	1,2,4-Trichlorobenzene	0.17	0.52	0.17	0.068	U
91-20-3	Naphthalene	0.23	0.38	0.23	0.096	U
1330-20-7	Xylenes, Total	<b>0.82</b>	0.89	0.30	0.12	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00776

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -3.19    Final Pressure (psig): 7.60  
 Initial Pressure 2 (psig): 0.15    Final Pressure 2 (psig): 4.51

Container Dilution Factor: 2.51

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	31	51	31	13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	11	18	11	2.9	U
74-87-3	Chloromethane	<b>15</b>	42	26	7.0	J
75-01-4	Vinyl Chloride	11	35	11	3.7	U
106-99-0	1,3-Butadiene	24	39	24	6.7	U
75-00-3	Chloroethane	20	33	20	4.2	U
64-17-5	Ethanol	74	470	74	33	U
67-64-1	Acetone	190	370	190	85	U
75-69-4	Trichlorofluoromethane	9.5	15	9.5	2.4	U
67-63-0	2-Propanol (Isopropyl Alcohol)	43	68	43	15	U
75-09-2	Methylene Chloride	15	25	15	7.2	U
76-13-1	Trichlorotrifluoroethane	3.7	12	3.7	1.7	U
75-15-0	Carbon Disulfide	<b>37</b>	54	29	8.6	J
75-34-3	1,1-Dichloroethane	14	22	14	3.2	U
78-93-3	2-Butanone (MEK)	18	57	18	6.2	U
141-78-6	Ethyl Acetate	<b>30</b>	46	30	13	J
110-54-3	n-Hexane	<b>21</b>	25	15	5.2	J
67-66-3	Chloroform	5.8	18	5.8	2.4	U
109-99-9	Tetrahydrofuran (THF)	<b>7.3</b>	57	9.6	3.8	J
107-06-2	1,2-Dichloroethane	7.0	22	7.0	2.4	U
71-43-2	Benzene	<b>190</b>	27	8.9	4.0	J
56-23-5	Carbon Tetrachloride	4.5	14	4.5	2.0	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00776

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -3.19    Final Pressure (psig): 7.60  
 Initial Pressure 2 (psig): 0.15    Final Pressure 2 (psig): 4.51

Container Dilution Factor: 2.51

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	16	49	17	7.3	J
75-27-4	Bromodichloromethane	4.2	13	4.2	1.9	U
79-01-6	Trichloroethene	3.3	16	5.3	2.2	J
123-91-1	1,4-Dioxane	7.9	24	7.9	2.9	U
142-82-5	n-Heptane	11	21	13	3.5	J
108-10-1	4-Methyl-2-pentanone	6.9	41	6.9	3.0	U
108-88-3	Toluene	26	23	7.6	2.9	U
591-78-6	2-Hexanone	6.9	41	6.9	2.7	U
124-48-1	Dibromochloromethane	3.3	10	3.3	1.4	U
106-93-4	1,2-Dibromoethane	3.7	11	3.7	1.4	U
127-18-4	Tetrachloroethene	4.2	13	4.2	1.7	U
100-41-4	Ethylbenzene	4.5	20	6.6	2.9	J
179601-23-1	m,p-Xylenes	13	39	13	5.4	U
75-25-2	Bromoform	5.2	8.6	5.2	1.8	U
100-42-5	Styrene	13	20	13	3.4	U
95-47-6	o-Xylene	19	20	6.6	3.0	J
108-67-8	1,3,5-Trimethylbenzene	8.8	18	5.8	2.6	J
95-63-6	1,2,4-Trimethylbenzene	5.8	18	5.8	2.5	U
120-82-1	1,2,4-Trichlorobenzene	7.2	23	7.2	2.9	U
91-20-3	Naphthalene	9.9	17	9.9	4.2	U
1330-20-7	Xylenes, Total	19	39	13	5.4	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00055

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.16 Final Pressure (psig): 7.51

Container Dilution Factor: 1.77

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.39</b>	1.3	0.82	0.33	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.46</b>	0.47	0.29	0.078	<b>J</b>
74-87-3	Chloromethane	0.69	1.1	0.69	0.18	<b>U</b>
75-01-4	Vinyl Chloride	0.29	0.92	0.29	0.099	<b>U</b>
106-99-0	1,3-Butadiene	0.64	1.0	0.64	0.18	<b>U</b>
75-00-3	Chloroethane	0.54	0.87	0.54	0.11	<b>U</b>
64-17-5	Ethanol	<b>5.1</b>	12	1.9	0.87	<b>J</b>
67-64-1	Acetone	<b>4.5</b>	9.7	5.0	2.2	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.23</b>	0.40	0.25	0.064	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.52</b>	1.8	1.1	0.40	<b>J</b>
75-09-2	Methylene Chloride	<b>0.27</b>	0.66	0.41	0.19	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>0.095</b>	0.31	0.098	0.044	<b>J</b>
75-15-0	Carbon Disulfide	<b>3.8</b>	1.4	0.77	0.23	
75-34-3	1,1-Dichloroethane	0.36	0.59	0.36	0.085	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>0.93</b>	1.5	0.48	0.17	<b>J</b>
141-78-6	Ethyl Acetate	<b>35</b>	1.2	0.80	0.34	
110-54-3	n-Hexane	0.40	0.65	0.40	0.14	<b>U</b>
67-66-3	Chloroform	<b>0.097</b>	0.48	0.15	0.064	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>0.48</b>	1.5	0.26	0.10	<b>J</b>
107-06-2	1,2-Dichloroethane	0.19	0.57	0.19	0.065	<b>U</b>
71-43-2	Benzene	<b>0.30</b>	0.72	0.24	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	0.12	0.36	0.12	0.052	<b>U</b>

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV135-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-007

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00055

Initial Pressure (psig): -2.16 Final Pressure (psig): 7.51

Container Dilution Factor: 1.77

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.44	1.3	0.44	0.19	U
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.051	U
79-01-6	Trichloroethene	15	0.42	0.14	0.059	
123-91-1	1,4-Dioxane	0.21	0.64	0.21	0.077	U
142-82-5	n-Heptane	0.14	0.56	0.35	0.092	J
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.079	U
108-88-3	Toluene	2.2	0.61	0.20	0.076	
591-78-6	2-Hexanone	0.18	1.1	0.18	0.071	U
124-48-1	Dibromochloromethane	0.088	0.27	0.088	0.036	U
106-93-4	1,2-Dibromoethane	0.098	0.30	0.098	0.036	U
127-18-4	Tetrachloroethene	0.049	0.34	0.11	0.045	J
100-41-4	Ethylbenzene	0.14	0.53	0.17	0.076	J
179601-23-1	m,p-Xylenes	2.8	1.0	0.35	0.14	
75-25-2	Bromoform	0.14	0.23	0.14	0.047	U
100-42-5	Styrene	0.33	0.54	0.33	0.089	U
95-47-6	o-Xylene	1.9	0.54	0.17	0.078	
108-67-8	1,3,5-Trimethylbenzene	0.50	0.48	0.15	0.069	
95-63-6	1,2,4-Trimethylbenzene	0.69	0.47	0.15	0.067	
120-82-1	1,2,4-Trichlorobenzene	0.19	0.60	0.19	0.078	U
91-20-3	Naphthalene	0.26	0.44	0.26	0.11	U
1330-20-7	Xylenes, Total	4.6	1.0	0.35	0.14	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00841

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.30 Final Pressure (psig): 7.35

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.99	1.6	0.99	0.40	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.47</b>	0.56	0.34	0.093	J
74-87-3	Chloromethane	0.82	1.3	0.82	0.22	U
75-01-4	Vinyl Chloride	0.35	1.1	0.35	0.12	U
106-99-0	1,3-Butadiene	0.77	1.2	0.77	0.21	U
75-00-3	Chloroethane	0.64	1.0	0.64	0.13	U
64-17-5	Ethanol	<b>4.9</b>	15	2.3	1.0	J
67-64-1	Acetone	<b>3.6</b>	12	6.0	2.7	J
75-69-4	Trichlorofluoromethane	<b>0.24</b>	0.48	0.30	0.076	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.47	U
75-09-2	Methylene Chloride	0.49	0.79	0.49	0.23	U
76-13-1	Trichlorotrifluoroethane	<b>0.11</b>	0.37	0.12	0.053	J
75-15-0	Carbon Disulfide	<b>2.8</b>	1.7	0.92	0.27	
75-34-3	1,1-Dichloroethane	0.43	0.71	0.43	0.10	U
78-93-3	2-Butanone (MEK)	<b>1.0</b>	1.8	0.58	0.20	J
141-78-6	Ethyl Acetate	<b>18</b>	1.5	0.96	0.41	
110-54-3	n-Hexane	0.48	0.78	0.48	0.17	U
67-66-3	Chloroform	<b>0.13</b>	0.58	0.18	0.077	J
109-99-9	Tetrahydrofuran (THF)	<b>10</b>	1.8	0.31	0.12	
107-06-2	1,2-Dichloroethane	0.22	0.68	0.22	0.077	U
71-43-2	Benzene	<b>0.28</b>	0.86	0.28	0.13	J
56-23-5	Carbon Tetrachloride	0.14	0.43	0.14	0.062	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV135-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-008

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00841

Initial Pressure (psig): -4.30 Final Pressure (psig): 7.35

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.52	1.5	0.52	0.23	U
75-27-4	Bromodichloromethane	0.13	0.41	0.13	0.061	U
79-01-6	Trichloroethene	<b>27</b>	0.50	0.17	0.071	
123-91-1	1,4-Dioxane	0.25	0.77	0.25	0.093	U
142-82-5	n-Heptane	<b>0.12</b>	0.67	0.41	0.11	J
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.094	U
108-88-3	Toluene	<b>1.4</b>	0.73	0.24	0.091	
591-78-6	2-Hexanone	0.22	1.3	0.22	0.085	U
124-48-1	Dibromochloromethane	0.11	0.32	0.11	0.044	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	U
127-18-4	Tetrachloroethene	<b>0.063</b>	0.41	0.13	0.054	J
100-41-4	Ethylbenzene	<b>0.19</b>	0.63	0.21	0.092	J
179601-23-1	m,p-Xylenes	<b>4.9</b>	1.2	0.42	0.17	
75-25-2	Bromoform	0.16	0.27	0.16	0.056	U
100-42-5	Styrene	0.40	0.65	0.40	0.11	U
95-47-6	o-Xylene	<b>3.0</b>	0.65	0.21	0.094	
108-67-8	1,3,5-Trimethylbenzene	<b>0.69</b>	0.57	0.18	0.083	
95-63-6	1,2,4-Trimethylbenzene	<b>1.1</b>	0.56	0.18	0.080	
120-82-1	1,2,4-Trichlorobenzene	0.23	0.71	0.23	0.093	U
91-20-3	Naphthalene	0.31	0.53	0.31	0.13	U
1330-20-7	Xylenes, Total	<b>7.9</b>	1.2	0.42	0.17	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00723

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.29 Final Pressure (psig): 7.30

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.85</b>	1.5	0.90	0.36	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.45</b>	0.51	0.31	0.085	<b>J</b>
74-87-3	Chloromethane	<b>0.44</b>	1.2	0.75	0.20	<b>J</b>
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	<b>U</b>
75-00-3	Chloroethane	0.59	0.95	0.59	0.12	<b>U</b>
64-17-5	Ethanol	<b>6.8</b>	14	2.1	0.95	<b>J</b>
67-64-1	Acetone	<b>30</b>	11	5.5	2.4	
75-69-4	Trichlorofluoromethane	<b>0.20</b>	0.44	0.27	0.070	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.78</b>	2.0	1.2	0.43	<b>J</b>
75-09-2	Methylene Chloride	<b>0.35</b>	0.72	0.44	0.21	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>0.29</b>	0.33	0.11	0.048	<b>J</b>
75-15-0	Carbon Disulfide	<b>3.1</b>	1.6	0.84	0.25	
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>15</b>	1.6	0.52	0.18	
141-78-6	Ethyl Acetate	<b>4.7</b>	1.3	0.87	0.38	
110-54-3	n-Hexane	0.44	0.71	0.44	0.15	<b>U</b>
67-66-3	Chloroform	<b>0.29</b>	0.52	0.17	0.070	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>12</b>	1.6	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	<b>U</b>
71-43-2	Benzene	<b>0.13</b>	0.79	0.26	0.12	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.17</b>	0.39	0.13	0.057	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-009

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Wida Ang

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SC00723

Initial Pressure (psig): -3.29 Final Pressure (psig): 7.30

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.48	1.4	0.48	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	<b>170</b>	4.6	1.5	0.65	D
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.084	U
142-82-5	n-Heptane	<b>0.18</b>	0.61	0.38	0.10	J
108-10-1	4-Methyl-2-pentanone	<b>0.23</b>	1.2	0.20	0.086	J
108-88-3	Toluene	<b>0.69</b>	0.67	0.22	0.083	J
591-78-6	2-Hexanone	<b>0.39</b>	1.2	0.20	0.078	J
124-48-1	Dibromochloromethane	0.096	0.29	0.096	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.28</b>	0.37	0.12	0.049	J
100-41-4	Ethylbenzene	<b>0.10</b>	0.58	0.19	0.083	J
179601-23-1	m,p-Xylenes	<b>1.2</b>	1.1	0.38	0.16	J
75-25-2	Bromoform	0.15	0.25	0.15	0.051	U
100-42-5	Styrene	0.36	0.59	0.36	0.097	U
95-47-6	o-Xylene	<b>0.75</b>	0.59	0.19	0.086	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.21</b>	0.52	0.17	0.076	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.31</b>	0.51	0.17	0.073	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	U
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	U
1330-20-7	Xylenes, Total	<b>2.0</b>	1.1	0.38	0.16	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-250-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00128

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.49    Final Pressure (psig): 7.23  
 Initial Pressure 2 (psig): 0.02    Final Pressure 2 (psig): 6.62

Container Dilution Factor: 2.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.73	2.1	1.3	0.53	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.31	0.74	0.46	0.12	J
74-87-3	Chloromethane	1.1	1.8	1.1	0.29	U
75-01-4	Vinyl Chloride	0.47	1.5	0.47	0.16	U
106-99-0	1,3-Butadiene	1.0	1.7	1.0	0.28	U
75-00-3	Chloroethane	0.86	1.4	0.86	0.18	U
64-17-5	Ethanol	5.4	20	3.1	1.4	J
67-64-1	Acetone	6.6	15	8.0	3.6	J
75-69-4	Trichlorofluoromethane	0.13	0.64	0.40	0.10	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.8	2.9	1.8	0.63	U
75-09-2	Methylene Chloride	0.65	1.1	0.65	0.31	U
76-13-1	Trichlorotrifluoroethane	0.21	0.49	0.16	0.070	J
75-15-0	Carbon Disulfide	3.9	2.3	1.2	0.36	
75-34-3	1,1-Dichloroethane	0.58	0.94	0.58	0.14	U
78-93-3	2-Butanone (MEK)	1.2	2.4	0.77	0.26	J
141-78-6	Ethyl Acetate	1.3	2.0	1.3	0.55	U
110-54-3	n-Hexane	0.64	1.0	0.64	0.22	U
67-66-3	Chloroform	0.33	0.77	0.25	0.10	J
109-99-9	Tetrahydrofuran (THF)	1.6	2.4	0.41	0.16	J
107-06-2	1,2-Dichloroethane	0.30	0.91	0.30	0.10	U
71-43-2	Benzene	0.64	1.2	0.38	0.17	J
56-23-5	Carbon Tetrachloride	0.14	0.57	0.19	0.083	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV135-250-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-010

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00128

Initial Pressure (psig): -3.49 Final Pressure (psig): 7.23

Initial Pressure 2 (psig): 0.02 Final Pressure 2 (psig): 6.62

Container Dilution Factor: 2.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.70	2.1	0.70	0.31	U
75-27-4	Bromodichloromethane	0.18	0.55	0.18	0.081	U
79-01-6	Trichloroethene	<b>110</b>	0.67	0.22	0.095	
123-91-1	1,4-Dioxane	0.33	1.0	0.33	0.12	U
142-82-5	n-Heptane	0.55	0.90	0.55	0.15	U
108-10-1	4-Methyl-2-pentanone	0.29	1.7	0.29	0.13	U
108-88-3	Toluene	<b>1.0</b>	0.98	0.32	0.12	
591-78-6	2-Hexanone	0.29	1.7	0.29	0.11	U
124-48-1	Dibromochloromethane	0.14	0.43	0.14	0.058	U
106-93-4	1,2-Dibromoethane	0.16	0.48	0.16	0.057	U
127-18-4	Tetrachloroethene	<b>0.19</b>	0.54	0.18	0.072	J
100-41-4	Ethylbenzene	<b>0.17</b>	0.85	0.28	0.12	J
179601-23-1	m,p-Xylenes	<b>3.7</b>	1.6	0.55	0.23	
75-25-2	Bromoform	0.22	0.36	0.22	0.075	U
100-42-5	Styrene	0.53	0.86	0.53	0.14	U
95-47-6	o-Xylene	<b>2.2</b>	0.86	0.28	0.13	
108-67-8	1,3,5-Trimethylbenzene	<b>0.57</b>	0.76	0.24	0.11	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.92</b>	0.75	0.24	0.11	
120-82-1	1,2,4-Trichlorobenzene	0.31	0.95	0.31	0.12	U
91-20-3	Naphthalene	0.42	0.70	0.42	0.18	U
1330-20-7	Xylenes, Total	<b>5.9</b>	1.6	0.55	0.23	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00999

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2 - 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.57 Final Pressure (psig): 7.43

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.36</b>	1.4	0.85	0.34	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.25</b>	0.48	0.29	0.080	<b>J</b>
74-87-3	Chloromethane	0.71	1.1	0.71	0.19	<b>U</b>
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	<b>U</b>
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	<b>U</b>
75-00-3	Chloroethane	0.55	0.90	0.55	0.11	<b>U</b>
64-17-5	Ethanol	<b>3.6</b>	13	2.0	0.89	<b>J</b>
67-64-1	Acetone	5.2	10	5.2	2.3	<b>U</b>
75-69-4	Trichlorofluoromethane	<b>0.11</b>	0.41	0.26	0.066	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	<b>U</b>
75-09-2	Methylene Chloride	<b>0.34</b>	0.68	0.42	0.20	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>0.21</b>	0.31	0.10	0.045	<b>J</b>
75-15-0	Carbon Disulfide	<b>2.5</b>	1.5	0.79	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.5</b>	1.5	0.49	0.17	<b>J</b>
141-78-6	Ethyl Acetate	<b>0.80</b>	1.3	0.82	0.35	<b>J</b>
110-54-3	n-Hexane	0.41	0.67	0.41	0.14	<b>U</b>
67-66-3	Chloroform	<b>0.33</b>	0.49	0.16	0.066	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>1.3</b>	1.5	0.26	0.10	<b>J</b>
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	<b>U</b>
71-43-2	Benzene	<b>0.11</b>	0.74	0.24	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.14</b>	0.37	0.12	0.054	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00999

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2 - 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.57 Final Pressure (psig): 7.43

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	0.12	0.35	0.12	0.052	U
79-01-6	Trichloroethene	<b>86</b>	4.3	1.4	0.61	<b>D</b>
123-91-1	1,4-Dioxane	0.21	0.66	0.21	0.080	U
142-82-5	n-Heptane	<b>0.18</b>	0.58	0.36	0.094	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>0.11</b>	1.1	0.19	0.081	<b>J</b>
108-88-3	Toluene	<b>0.42</b>	0.63	0.21	0.079	<b>J</b>
591-78-6	2-Hexanone	0.19	1.1	0.19	0.073	U
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.037	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.19</b>	0.35	0.11	0.046	<b>J</b>
100-41-4	Ethylbenzene	0.18	0.54	0.18	0.079	U
179601-23-1	m,p-Xylenes	<b>0.83</b>	1.0	0.36	0.15	<b>J</b>
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.56	0.34	0.092	U
95-47-6	o-Xylene	<b>0.51</b>	0.56	0.18	0.081	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.12</b>	0.49	0.16	0.071	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.22</b>	0.48	0.16	0.069	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.080	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	<b>1.3</b>	1.0	0.36	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00779

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.28    Final Pressure (psig): 7.70  
 Initial Pressure 2 (psig): 0.04    Final Pressure 2 (psig): 7.11

Container Dilution Factor: 2.67

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.68</b>	2.0	1.2	0.50	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.28</b>	0.70	0.43	0.12	<b>J</b>
74-87-3	Chloromethane	1.0	1.7	1.0	0.28	<b>U</b>
75-01-4	Vinyl Chloride	0.44	1.4	0.44	0.15	<b>U</b>
106-99-0	1,3-Butadiene	0.97	1.6	0.97	0.27	<b>U</b>
75-00-3	Chloroethane	0.81	1.3	0.81	0.17	<b>U</b>
64-17-5	Ethanol	<b>10</b>	19	2.9	1.3	<b>J</b>
67-64-1	Acetone	<b>13</b>	15	7.6	3.4	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.14</b>	0.61	0.38	0.096	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.62</b>	2.7	1.7	0.60	<b>J</b>
75-09-2	Methylene Chloride	<b>0.66</b>	1.0	0.62	0.29	<b>J</b>
76-13-1	Trichlorotrifluoroethane	0.15	0.46	0.15	0.066	<b>U</b>
75-15-0	Carbon Disulfide	<b>1.6</b>	2.1	1.2	0.34	<b>J</b>
75-34-3	1,1-Dichloroethane	0.54	0.89	0.54	0.13	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.6</b>	2.3	0.72	0.25	
141-78-6	Ethyl Acetate	1.2	1.9	1.2	0.52	<b>U</b>
110-54-3	n-Hexane	0.61	0.99	0.61	0.21	<b>U</b>
67-66-3	Chloroform	0.23	0.72	0.23	0.097	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>7.8</b>	2.3	0.38	0.15	
107-06-2	1,2-Dichloroethane	0.28	0.86	0.28	0.097	<b>U</b>
71-43-2	Benzene	<b>0.24</b>	1.1	0.36	0.16	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.092</b>	0.54	0.18	0.079	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00779

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.28 Final Pressure (psig): 7.70

Initial Pressure 2 (psig): 0.04 Final Pressure 2 (psig): 7.11

Container Dilution Factor: 2.67

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.66	1.9	0.66	0.29	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	<b>6.1</b>	0.63	0.21	0.089	
123-91-1	1,4-Dioxane	0.32	0.96	0.32	0.12	U
142-82-5	n-Heptane	0.52	0.85	0.52	0.14	U
108-10-1	4-Methyl-2-pentanone	0.28	1.6	0.28	0.12	U
108-88-3	Toluene	<b>0.42</b>	0.92	0.30	0.12	J
591-78-6	2-Hexanone	0.28	1.6	0.28	0.11	U
124-48-1	Dibromochloromethane	0.13	0.41	0.13	0.055	U
106-93-4	1,2-Dibromoethane	0.15	0.45	0.15	0.054	U
127-18-4	Tetrachloroethene	0.17	0.51	0.17	0.068	U
100-41-4	Ethylbenzene	0.26	0.80	0.26	0.12	U
179601-23-1	m,p-Xylenes	<b>0.97</b>	1.5	0.52	0.22	J
75-25-2	Bromoform	0.21	0.34	0.21	0.071	U
100-42-5	Styrene	0.50	0.82	0.50	0.13	U
95-47-6	o-Xylene	<b>0.66</b>	0.81	0.26	0.12	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.20</b>	0.72	0.23	0.10	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.32</b>	0.71	0.23	0.10	J
120-82-1	1,2,4-Trichlorobenzene	0.29	0.90	0.29	0.12	U
91-20-3	Naphthalene	0.39	0.66	0.39	0.17	U
1330-20-7	Xylenes, Total	<b>1.6</b>	1.5	0.52	0.22	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV135-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00173

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.88 Final Pressure (psig): 7.70

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.5	1.4	0.88	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.20	0.50	0.31	0.084	J
74-87-3	Chloromethane	4.4	1.2	0.74	0.20	
75-01-4	Vinyl Chloride	1.5	0.99	0.32	0.11	
106-99-0	1,3-Butadiene	0.31	1.1	0.69	0.19	J
75-00-3	Chloroethane	1.7	0.94	0.58	0.12	
64-17-5	Ethanol	18	13	2.1	0.93	
67-64-1	Acetone	15	10	5.4	2.4	
75-69-4	Trichlorofluoromethane	0.10	0.43	0.27	0.068	J
67-63-0	2-Propanol (Isopropyl Alcohol)	0.44	1.9	1.2	0.43	J
75-09-2	Methylene Chloride	0.44	0.71	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	0.13	0.33	0.11	0.047	J
75-15-0	Carbon Disulfide	17	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	0.20	0.63	0.39	0.092	J
78-93-3	2-Butanone (MEK)	4.8	1.6	0.52	0.18	
141-78-6	Ethyl Acetate	0.77	1.3	0.86	0.37	J
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	U
67-66-3	Chloroform	0.24	0.52	0.17	0.069	J
109-99-9	Tetrahydrofuran (THF)	11	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.66	0.61	0.20	0.069	
71-43-2	Benzene	0.46	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	0.12	0.39	0.13	0.056	J

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV135-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-013

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00173

Initial Pressure (psig): -2.88 Final Pressure (psig): 7.70

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	52	0.45	0.15	0.064	
123-91-1	1,4-Dioxane	0.22	0.69	0.22	0.083	U
142-82-5	n-Heptane	0.23	0.60	0.37	0.099	J
108-10-1	4-Methyl-2-pentanone	1.2	1.2	0.20	0.085	
108-88-3	Toluene	2.9	0.66	0.21	0.082	
591-78-6	2-Hexanone	0.26	1.2	0.20	0.077	J
124-48-1	Dibromochloromethane	0.095	0.29	0.095	0.039	U
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.038	U
127-18-4	Tetrachloroethene	0.19	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	0.32	0.57	0.19	0.082	J
179601-23-1	m,p-Xylenes	1.5	1.1	0.37	0.15	
75-25-2	Bromoform	0.15	0.24	0.15	0.051	U
100-42-5	Styrene	0.12	0.58	0.36	0.096	J
95-47-6	o-Xylene	0.52	0.58	0.19	0.084	J
108-67-8	1,3,5-Trimethylbenzene	0.091	0.51	0.16	0.074	J
95-63-6	1,2,4-Trimethylbenzene	0.17	0.50	0.16	0.072	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	2.0	1.1	0.37	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00093

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.02    Final Pressure (psig): 7.88  
 Initial Pressure 2 (psig): 0.47    Final Pressure 2 (psig): 6.84

Container Dilution Factor: 2.74

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.3	2.1	1.3	0.52	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.48</b>	0.72	0.44	0.12	J
74-87-3	Chloromethane	1.1	1.7	1.1	0.29	U
75-01-4	Vinyl Chloride	0.46	1.4	0.46	0.15	U
106-99-0	1,3-Butadiene	0.99	1.6	0.99	0.27	U
75-00-3	Chloroethane	0.83	1.4	0.83	0.17	U
64-17-5	Ethanol	<b>2.4</b>	19	3.0	1.3	J
67-64-1	Acetone	7.8	15	7.8	3.5	U
75-69-4	Trichlorofluoromethane	<b>0.21</b>	0.62	0.39	0.099	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.8	2.8	1.8	0.61	U
75-09-2	Methylene Chloride	0.63	1.0	0.63	0.30	U
76-13-1	Trichlorotrifluoroethane	0.15	0.47	0.15	0.068	U
75-15-0	Carbon Disulfide	<b>0.74</b>	2.2	1.2	0.35	J
75-34-3	1,1-Dichloroethane	0.56	0.91	0.56	0.13	U
78-93-3	2-Butanone (MEK)	<b>0.43</b>	2.3	0.74	0.26	J
141-78-6	Ethyl Acetate	1.2	1.9	1.2	0.53	U
110-54-3	n-Hexane	0.62	1.0	0.62	0.21	U
67-66-3	Chloroform	0.24	0.74	0.24	0.10	U
109-99-9	Tetrahydrofuran (THF)	0.40	2.3	0.40	0.16	U
107-06-2	1,2-Dichloroethane	0.29	0.88	0.29	0.10	U
71-43-2	Benzene	0.36	1.1	0.36	0.17	U
56-23-5	Carbon Tetrachloride	0.19	0.56	0.19	0.081	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV137-025-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-014

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00093

Initial Pressure (psig): -3.02 Final Pressure (psig): 7.88

Initial Pressure 2 (psig): 0.47 Final Pressure 2 (psig): 6.84

Container Dilution Factor: 2.74

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.68	2.0	0.68	0.30	U
75-27-4	Bromodichloromethane	0.17	0.53	0.17	0.079	U
79-01-6	Trichloroethene	0.22	0.65	0.22	0.092	U
123-91-1	1,4-Dioxane	0.32	0.99	0.32	0.12	U
142-82-5	n-Heptane	0.54	0.87	0.54	0.14	U
108-10-1	4-Methyl-2-pentanone	0.28	1.7	0.28	0.12	U
108-88-3	Toluene	0.31	0.95	0.31	0.12	U
591-78-6	2-Hexanone	0.28	1.7	0.28	0.11	U
124-48-1	Dibromochloromethane	0.14	0.42	0.14	0.056	U
106-93-4	1,2-Dibromoethane	0.15	0.46	0.15	0.055	U
127-18-4	Tetrachloroethene	0.17	0.53	0.17	0.070	U
100-41-4	Ethylbenzene	0.27	0.82	0.27	0.12	U
179601-23-1	m,p-Xylenes	0.54	1.6	0.54	0.22	U
75-25-2	Bromoform	0.21	0.35	0.21	0.073	U
100-42-5	Styrene	0.52	0.84	0.52	0.14	U
95-47-6	o-Xylene	0.27	0.84	0.27	0.12	U
108-67-8	1,3,5-Trimethylbenzene	0.24	0.74	0.24	0.11	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.11</b>	0.72	0.24	0.10	J
120-82-1	1,2,4-Trichlorobenzene	0.30	0.92	0.30	0.12	U
91-20-3	Naphthalene	0.41	0.68	0.41	0.17	U
1330-20-7	Xylenes, Total	0.54	1.6	0.54	0.22	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00091

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.04    Final Pressure (psig): 7.30  
 Initial Pressure 2 (psig): 0.03    Final Pressure 2 (psig): 5.72

Container Dilution Factor: 2.62

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.7	2.0	1.2	0.49	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.55	0.69	0.42	0.12	J
74-87-3	Chloromethane	1.0	1.7	1.0	0.27	U
75-01-4	Vinyl Chloride	0.44	1.4	0.44	0.15	U
106-99-0	1,3-Butadiene	0.95	1.5	0.95	0.26	U
75-00-3	Chloroethane	0.79	1.3	0.79	0.16	U
64-17-5	Ethanol	7.2	18	2.9	1.3	J
67-64-1	Acetone	9.9	14	7.4	3.3	J
75-69-4	Trichlorofluoromethane	0.22	0.59	0.37	0.094	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.0	2.7	1.7	0.59	J
75-09-2	Methylene Chloride	0.32	0.98	0.60	0.28	J
76-13-1	Trichlorotrifluoroethane	0.15	0.45	0.15	0.065	U
75-15-0	Carbon Disulfide	1.2	2.1	1.1	0.34	J
75-34-3	1,1-Dichloroethane	0.53	0.87	0.53	0.13	U
78-93-3	2-Butanone (MEK)	1.2	2.2	0.71	0.24	J
141-78-6	Ethyl Acetate	1.2	1.8	1.2	0.51	U
110-54-3	n-Hexane	0.59	0.97	0.59	0.20	U
67-66-3	Chloroform	0.11	0.71	0.23	0.095	J
109-99-9	Tetrahydrofuran (THF)	0.57	2.2	0.38	0.15	J
107-06-2	1,2-Dichloroethane	0.28	0.84	0.28	0.096	U
71-43-2	Benzene	0.17	1.1	0.35	0.16	J
56-23-5	Carbon Tetrachloride	0.18	0.53	0.18	0.077	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00091

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.04    Final Pressure (psig): 7.30  
 Initial Pressure 2 (psig): 0.03    Final Pressure 2 (psig): 5.72

Container Dilution Factor: 2.62

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.65	1.9	0.65	0.29	U
75-27-4	Bromodichloromethane	0.17	0.51	0.17	0.075	U
79-01-6	Trichloroethene	0.21	0.62	0.21	0.088	U
123-91-1	1,4-Dioxane	0.31	0.95	0.31	0.11	U
142-82-5	n-Heptane	0.51	0.83	0.51	0.14	U
108-10-1	4-Methyl-2-pentanone	0.27	1.6	0.27	0.12	U
108-88-3	Toluene	<b>0.31</b>	0.90	0.30	0.11	J
591-78-6	2-Hexanone	0.27	1.6	0.27	0.11	U
124-48-1	Dibromochloromethane	0.13	0.40	0.13	0.054	U
106-93-4	1,2-Dibromoethane	0.14	0.44	0.14	0.053	U
127-18-4	Tetrachloroethene	0.16	0.50	0.16	0.067	U
100-41-4	Ethylbenzene	0.26	0.78	0.26	0.11	U
179601-23-1	m,p-Xylenes	<b>0.26</b>	1.5	0.51	0.21	J
75-25-2	Bromoform	0.20	0.34	0.20	0.070	U
100-42-5	Styrene	0.49	0.80	0.49	0.13	U
95-47-6	o-Xylene	0.26	0.80	0.26	0.12	U
108-67-8	1,3,5-Trimethylbenzene	0.23	0.71	0.23	0.10	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.26</b>	0.69	0.23	0.099	J
120-82-1	1,2,4-Trichlorobenzene	0.28	0.88	0.28	0.11	U
91-20-3	Naphthalene	0.39	0.65	0.39	0.16	U
1330-20-7	Xylenes, Total	<b>0.26</b>	1.5	0.51	0.21	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01025

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.43 Final Pressure (psig): 7.23

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.83	1.4	0.83	0.34	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.68</b>	0.47	0.29	0.079	
74-87-3	Chloromethane	0.69	1.1	0.69	0.19	U
75-01-4	Vinyl Chloride	0.30	0.93	0.30	0.10	U
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	U
75-00-3	Chloroethane	0.54	0.88	0.54	0.11	U
64-17-5	Ethanol	<b>3.8</b>	13	2.0	0.88	J
67-64-1	Acetone	<b>3.6</b>	9.8	5.1	2.3	J
75-69-4	Trichlorofluoromethane	<b>0.23</b>	0.41	0.25	0.065	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.40	U
75-09-2	Methylene Chloride	0.41	0.67	0.41	0.19	U
76-13-1	Trichlorotrifluoroethane	<b>0.062</b>	0.31	0.099	0.044	J
75-15-0	Carbon Disulfide	<b>1.2</b>	1.4	0.78	0.23	J
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.086	U
78-93-3	2-Butanone (MEK)	<b>0.60</b>	1.5	0.49	0.17	J
141-78-6	Ethyl Acetate	0.81	1.2	0.81	0.35	U
110-54-3	n-Hexane	0.41	0.66	0.41	0.14	U
67-66-3	Chloroform	0.16	0.49	0.16	0.065	U
109-99-9	Tetrahydrofuran (THF)	<b>0.37</b>	1.5	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.065	U
71-43-2	Benzene	<b>0.16</b>	0.73	0.24	0.11	J
56-23-5	Carbon Tetrachloride	0.12	0.36	0.12	0.053	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV137-150-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-016

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01025

Initial Pressure (psig): -2.43 Final Pressure (psig): 7.23

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.44	1.3	0.44	0.20	U
75-27-4	Bromodichloromethane	0.11	0.35	0.11	0.051	U
79-01-6	Trichloroethene	0.14	0.42	0.14	0.060	U
123-91-1	1,4-Dioxane	<b>0.15</b>	0.65	0.21	0.078	J
142-82-5	n-Heptane	0.35	0.57	0.35	0.093	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.080	U
108-88-3	Toluene	<b>0.12</b>	0.62	0.20	0.077	J
591-78-6	2-Hexanone	<b>0.089</b>	1.1	0.19	0.072	J
124-48-1	Dibromochloromethane	0.089	0.27	0.089	0.037	U
106-93-4	1,2-Dibromoethane	0.099	0.30	0.099	0.036	U
127-18-4	Tetrachloroethene	<b>0.053</b>	0.34	0.11	0.046	J
100-41-4	Ethylbenzene	0.18	0.54	0.18	0.077	U
179601-23-1	m,p-Xylenes	0.35	1.0	0.35	0.14	U
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.090	U
95-47-6	o-Xylene	0.18	0.55	0.18	0.079	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.48	0.15	0.070	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.078</b>	0.47	0.15	0.067	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.60	0.19	0.078	U
91-20-3	Naphthalene	0.26	0.44	0.26	0.11	U
1330-20-7	Xylenes, Total	0.35	1.0	0.35	0.14	U

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00767

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.55 Final Pressure (psig): 7.38

Container Dilution Factor: 1.98

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.92	1.5	0.92	0.37	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.82</b>	0.52	0.32	0.087	
74-87-3	Chloromethane	0.77	1.2	0.77	0.21	U
75-01-4	Vinyl Chloride	0.33	1.0	0.33	0.11	U
106-99-0	1,3-Butadiene	0.72	1.2	0.72	0.20	U
75-00-3	Chloroethane	0.60	0.98	0.60	0.12	U
64-17-5	Ethanol	<b>1.9</b>	14	2.2	0.97	J
67-64-1	Acetone	5.6	11	5.6	2.5	U
75-69-4	Trichlorofluoromethane	<b>0.27</b>	0.45	0.28	0.071	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.0	1.3	0.44	U
75-09-2	Methylene Chloride	0.46	0.74	0.46	0.21	U
76-13-1	Trichlorotrifluoroethane	<b>0.065</b>	0.34	0.11	0.049	J
75-15-0	Carbon Disulfide	<b>0.63</b>	1.6	0.86	0.25	J
75-34-3	1,1-Dichloroethane	0.40	0.66	0.40	0.095	U
78-93-3	2-Butanone (MEK)	<b>0.33</b>	1.7	0.54	0.18	J
141-78-6	Ethyl Acetate	0.89	1.4	0.89	0.38	U
110-54-3	n-Hexane	0.45	0.73	0.45	0.15	U
67-66-3	Chloroform	0.17	0.54	0.17	0.072	U
109-99-9	Tetrahydrofuran (THF)	<b>7.0</b>	1.7	0.29	0.11	
107-06-2	1,2-Dichloroethane	0.21	0.64	0.21	0.072	U
71-43-2	Benzene	<b>0.15</b>	0.81	0.26	0.12	J
56-23-5	Carbon Tetrachloride	0.13	0.40	0.13	0.058	U

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00767

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.55 Final Pressure (psig): 7.38

Container Dilution Factor: 1.98

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.49	1.4	0.49	0.22	U
75-27-4	Bromodichloromethane	0.13	0.38	0.13	0.057	U
79-01-6	Trichloroethene	<b>0.18</b>	0.47	0.16	0.066	J
123-91-1	1,4-Dioxane	0.23	0.71	0.23	0.087	U
142-82-5	n-Heptane	0.39	0.63	0.39	0.10	U
108-10-1	4-Methyl-2-pentanone	0.21	1.2	0.21	0.088	U
108-88-3	Toluene	<b>0.10</b>	0.68	0.22	0.085	J
591-78-6	2-Hexanone	0.21	1.2	0.21	0.080	U
124-48-1	Dibromochloromethane	0.099	0.30	0.099	0.041	U
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.040	U
127-18-4	Tetrachloroethene	<b>0.056</b>	0.38	0.12	0.050	J
100-41-4	Ethylbenzene	0.19	0.59	0.19	0.086	U
179601-23-1	m,p-Xylenes	0.39	1.1	0.39	0.16	U
75-25-2	Bromoform	0.15	0.25	0.15	0.053	U
100-42-5	Styrene	0.37	0.60	0.37	0.10	U
95-47-6	o-Xylene	0.19	0.60	0.19	0.088	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.078	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.075	U
120-82-1	1,2,4-Trichlorobenzene	0.21	0.67	0.21	0.087	U
91-20-3	Naphthalene	0.29	0.49	0.29	0.12	U
1330-20-7	Xylenes, Total	0.39	1.1	0.39	0.16	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00649

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 7.50

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.72	1.4	0.85	0.34	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.74	0.48	0.29	0.080	
74-87-3	Chloromethane	0.20	1.1	0.71	0.19	J
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	U
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	0.55	0.90	0.55	0.11	U
64-17-5	Ethanol	7.5	13	2.0	0.89	J
67-64-1	Acetone	13	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	0.38	0.41	0.26	0.066	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	0.054	0.31	0.10	0.045	J
75-15-0	Carbon Disulfide	1.2	1.5	0.79	0.23	J
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	2.8	1.5	0.49	0.17	
141-78-6	Ethyl Acetate	1.2	1.3	0.82	0.35	J
110-54-3	n-Hexane	0.41	0.67	0.41	0.14	U
67-66-3	Chloroform	0.16	0.49	0.16	0.066	U
109-99-9	Tetrahydrofuran (THF)	2.0	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	U
71-43-2	Benzene	0.21	0.74	0.24	0.11	J
56-23-5	Carbon Tetrachloride	0.12	0.37	0.12	0.054	J

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00649

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 7.50

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	0.12	0.35	0.12	0.052	U
79-01-6	Trichloroethene	<b>0.18</b>	0.43	0.14	0.061	J
123-91-1	1,4-Dioxane	0.21	0.66	0.21	0.080	U
142-82-5	n-Heptane	0.36	0.58	0.36	0.094	U
108-10-1	4-Methyl-2-pentanone	<b>0.083</b>	1.1	0.19	0.081	J
108-88-3	Toluene	<b>0.25</b>	0.63	0.21	0.079	J
591-78-6	2-Hexanone	<b>0.28</b>	1.1	0.19	0.073	J
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.037	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.049</b>	0.35	0.11	0.046	J
100-41-4	Ethylbenzene	0.18	0.54	0.18	0.079	U
179601-23-1	m,p-Xylenes	0.36	1.0	0.36	0.15	U
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.56	0.34	0.092	U
95-47-6	o-Xylene	0.18	0.56	0.18	0.081	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.071	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.094</b>	0.48	0.16	0.069	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.080	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	0.36	1.0	0.36	0.15	U

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00083

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.0030 Liter(s)

0.0010 Liter(s)

Initial Pressure (psig): -5.61 Final Pressure (psig): 7.37

Container Dilution Factor: 2.43

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	300	240	150	61	
75-71-8	Dichlorodifluoromethane (CFC 12)	52	85	52	14	U
74-87-3	Chloromethane	130	200	130	34	U
75-01-4	Vinyl Chloride	54	170	54	18	U
106-99-0	1,3-Butadiene	120	190	120	32	U
75-00-3	Chloroethane	98	160	98	20	U
64-17-5	Ethanol	360	2,300	360	160	U
67-64-1	Acetone	920	1,800	920	410	U
75-69-4	Trichlorofluoromethane	46	74	46	12	U
67-63-0	2-Propanol (Isopropyl Alcohol)	130	330	210	73	J
75-09-2	Methylene Chloride	75	120	75	35	U
76-13-1	Trichlorotrifluoroethane	18	56	18	8.0	U
75-15-0	Carbon Disulfide	52	260	140	42	J
75-34-3	1,1-Dichloroethane	66	110	66	16	U
78-93-3	2-Butanone (MEK)	40	270	88	30	J
141-78-6	Ethyl Acetate	150	220	150	63	U
110-54-3	n-Hexane	200	120	74	25	
67-66-3	Chloroform	28	88	28	12	U
109-99-9	Tetrahydrofuran (THF)	24	270	47	18	J
107-06-2	1,2-Dichloroethane	29	100	34	12	J
71-43-2	Benzene	5,100	130	43	20	
56-23-5	Carbon Tetrachloride	22	66	22	9.5	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV137-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-019

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/2/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0030 Liter(s)

Test Notes:

0.0010 Liter(s)

Container ID: 1SS00083

Initial Pressure (psig): -5.61 Final Pressure (psig): 7.37

Container Dilution Factor: 2.43

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	5,200	240	80	35	
75-27-4	Bromodichloromethane	21	63	21	9.3	U
79-01-6	Trichloroethene	27	77	26	11	J
123-91-1	1,4-Dioxane	38	120	38	14	U
142-82-5	n-Heptane	220	100	63	17	
108-10-1	4-Methyl-2-pentanone	34	200	34	14	U
108-88-3	Toluene	16,000	110	37	14	
591-78-6	2-Hexanone	34	200	34	13	U
124-48-1	Dibromochloromethane	16	49	16	6.7	U
106-93-4	1,2-Dibromoethane	100	55	18	6.5	
127-18-4	Tetrachloroethene	23	62	20	8.2	J
100-41-4	Ethylbenzene	990	97	32	14	
179601-23-1	m,p-Xylenes	36,000	190	63	26	
75-25-2	Bromoform	25	42	25	8.6	U
100-42-5	Styrene	61	99	61	16	U
95-47-6	o-Xylene	15,000	300	95	43	D
108-67-8	1,3,5-Trimethylbenzene	2,400	87	28	13	
95-63-6	1,2,4-Trimethylbenzene	2,100	86	28	12	
120-82-1	1,2,4-Trichlorobenzene	35	110	35	14	U
91-20-3	Naphthalene	48	80	48	20	U
1330-20-7	Xylenes, Total	51,000	560	190	78	D

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00337

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/3/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -1.97 Final Pressure (psig): 7.45

Container Dilution Factor: 1.74

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.63</b>	1.3	0.81	0.33	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.49</b>	0.46	0.28	0.077	
74-87-3	Chloromethane	0.67	1.1	0.67	0.18	<b>U</b>
75-01-4	Vinyl Chloride	0.29	0.90	0.29	0.097	<b>U</b>
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	<b>U</b>
75-00-3	Chloroethane	0.53	0.86	0.53	0.11	<b>U</b>
64-17-5	Ethanol	<b>11</b>	12	1.9	0.85	<b>J</b>
67-64-1	Acetone	<b>22</b>	9.5	4.9	2.2	
75-69-4	Trichlorofluoromethane	<b>0.37</b>	0.39	0.25	0.063	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	<b>U</b>
75-09-2	Methylene Chloride	0.40	0.65	0.40	0.19	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>2.4</b>	0.30	0.097	0.043	
75-15-0	Carbon Disulfide	<b>0.96</b>	1.4	0.75	0.22	<b>J</b>
75-34-3	1,1-Dichloroethane	0.35	0.58	0.35	0.084	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>3.6</b>	1.5	0.47	0.16	
141-78-6	Ethyl Acetate	<b>8.0</b>	1.2	0.78	0.34	
110-54-3	n-Hexane	0.40	0.64	0.40	0.14	<b>U</b>
67-66-3	Chloroform	<b>0.27</b>	0.47	0.15	0.063	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>0.12</b>	1.5	0.25	0.099	<b>J</b>
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.063	<b>U</b>
71-43-2	Benzene	<b>0.16</b>	0.71	0.23	0.10	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>1.3</b>	0.35	0.12	0.051	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-020

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/19/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/3/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00337

Initial Pressure (psig): -1.97 Final Pressure (psig): 7.45

Container Dilution Factor: 1.74

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.43	1.3	0.43	0.19	U
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.050	U
79-01-6	Trichloroethene	0.14	0.41	0.14	0.058	U
123-91-1	1,4-Dioxane	0.21	0.63	0.21	0.076	U
142-82-5	n-Heptane	<b>0.13</b>	0.55	0.34	0.090	J
108-10-1	4-Methyl-2-pentanone	<b>0.13</b>	1.1	0.18	0.078	J
108-88-3	Toluene	<b>0.57</b>	0.60	0.20	0.075	J
591-78-6	2-Hexanone	<b>0.29</b>	1.1	0.18	0.070	J
124-48-1	Dibromochloromethane	0.087	0.27	0.087	0.036	U
106-93-4	1,2-Dibromoethane	0.096	0.29	0.096	0.035	U
127-18-4	Tetrachloroethene	0.11	0.33	0.11	0.044	U
100-41-4	Ethylbenzene	<b>0.077</b>	0.52	0.17	0.075	J
179601-23-1	m,p-Xylenes	<b>0.39</b>	1.0	0.34	0.14	J
75-25-2	Bromoform	0.13	0.22	0.13	0.046	U
100-42-5	Styrene	0.33	0.53	0.33	0.088	U
95-47-6	o-Xylene	<b>0.16</b>	0.53	0.17	0.077	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.12</b>	0.47	0.15	0.068	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.60</b>	0.46	0.15	0.066	
120-82-1	1,2,4-Trichlorobenzene	0.19	0.59	0.19	0.076	U
91-20-3	Naphthalene	<b>0.43</b>	0.43	0.26	0.11	J
1330-20-7	Xylenes, Total	<b>0.54</b>	1.0	0.34	0.14	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201102-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/12/20

Analyst: Lusine Hakobyan/Wida Ang

Date(s) Received: 10/19/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 11/2 - 11/3/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201102-MB	100	102	103	70-130	
Method Blank	P201103-MB	100	102	104	70-130	
Lab Control Sample	P201102-LCS	99	98	103	70-130	
Lab Control Sample	P201103-LCS	98	98	104	70-130	
Duplicate Lab Control Sample	P201102-DLCS	98	98	103	70-130	
Duplicate Lab Control Sample	P201103-DLCS	98	98	104	70-130	
SV134-050-204	P2005896-001	99	101	106	70-130	
SV134-170-204	P2005896-002	98	102	105	70-130	
SV134-250-204	P2005896-003	100	102	105	70-130	
SV134-350-204	P2005896-004	99	102	105	70-130	
SV134-350-604	P2005896-005	99	101	109	70-130	
SV134-450-204	P2005896-006	100	105	104	70-130	
SV134-450-204	P2005896-006DUP	98	103	105	70-130	
SV135-025-204	P2005896-007	99	102	107	70-130	
SV135-050-204	P2005896-008	99	102	107	70-130	
SV135-150-204	P2005896-009	98	102	107	70-130	
SV135-250-604	P2005896-010	98	102	108	70-130	
SV135-250-204	P2005896-011	98	101	108	70-130	
SV135-350-204	P2005896-012	97	102	106	70-130	
SV135-450-204	P2005896-013	98	103	108	70-130	
SV137-025-204	P2005896-014	98	101	106	70-130	
SV137-050-204	P2005896-015	99	99	106	70-130	
SV137-150-204	P2005896-016	100	99	106	70-130	
SV137-250-204	P2005896-017	99	99	105	70-130	
SV137-350-204	P2005896-018	99	100	106	70-130	
SV137-450-204	P2005896-019	100	98	104	70-130	
SV139-025-204	P2005896-020	99	99	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	122	127	125	104	102	57-136	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	40.1	39.3	94	92	59-128	2	25	
74-87-3	Chloromethane	99.8	89.7	85.3	90	85	59-132	6	25	
75-01-4	Vinyl Chloride	81.4	78.7	76.3	97	94	64-127	3	25	
106-99-0	1,3-Butadiene	95.0	94.4	93.1	99	98	66-134	1	25	
75-00-3	Chloroethane	77.3	74.5	72.4	96	94	63-127	2	25	
64-17-5	Ethanol	530	507	497	96	94	59-125	2	25	
67-64-1	Acetone	435	402	391	92	90	58-128	2	25	
75-69-4	Trichlorofluoromethane	36.3	35.3	34.6	97	95	62-126	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	147	142	89	86	52-125	3	25	
75-09-2	Methylene Chloride	59.9	56.6	55.1	94	92	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	27.9	27.0	26.5	97	95	66-126	2	25	
75-15-0	Carbon Disulfide	137	135	131	99	96	57-134	3	25	
75-34-3	1,1-Dichloroethane	52.4	50.0	48.8	95	93	68-126	2	25	
78-93-3	2-Butanone (MEK)	140	144	141	103	101	67-130	2	25	
141-78-6	Ethyl Acetate	117	150	145	128	124	65-128	3	25	
110-54-3	n-Hexane	60.2	64.5	62.1	107	103	63-120	4	25	
67-66-3	Chloroform	43.8	42.0	40.9	96	93	68-123	3	25	
109-99-9	Tetrahydrofuran (THF)	136	134	131	99	96	64-123	3	25	
107-06-2	1,2-Dichloroethane	51.4	50.6	49.0	98	95	65-128	3	25	
71-43-2	Benzene	63.9	61.2	59.9	96	94	69-119	2	25	
56-23-5	Carbon Tetrachloride	33.4	32.3	31.6	97	95	68-132	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201102-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/2/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		ppbV	ppbV	ppbV	ppbV					
110-82-7	Cyclohexane	121	122	119		<b>101</b>	<b>98</b>	70-117	3	25
75-27-4	Bromodichloromethane	31.4	32.3	31.5		<b>103</b>	<b>100</b>	72-128	3	25
79-01-6	Trichloroethene	38.3	37.0	36.3		<b>97</b>	<b>95</b>	71-123	2	25
123-91-1	1,4-Dioxane	57.7	58.9	57.6		<b>102</b>	<b>100</b>	71-122	2	25
142-82-5	n-Heptane	51.3	50.5	49.5		<b>98</b>	<b>96</b>	69-123	2	25
108-10-1	4-Methyl-2-pentanone	102	108	106		<b>106</b>	<b>104</b>	67-130	2	25
108-88-3	Toluene	54.7	52.9	51.9		<b>97</b>	<b>95</b>	66-119	2	25
591-78-6	2-Hexanone	98.7	108	106		<b>109</b>	<b>107</b>	62-128	2	25
124-48-1	Dibromochloromethane	24.7	26.6	26.1		<b>108</b>	<b>106</b>	70-130	2	25
106-93-4	1,2-Dibromoethane	27.1	27.8	27.1		<b>103</b>	<b>100</b>	74-122	3	25
127-18-4	Tetrachloroethene	30.4	30.4	29.7		<b>100</b>	<b>98</b>	66-124	2	25
100-41-4	Ethylbenzene	47.4	47.8	47.1		<b>101</b>	<b>99</b>	70-124	2	25
179601-23-1	m,p-Xylenes	94.9	98.1	95.9		<b>103</b>	<b>101</b>	61-134	2	25
75-25-2	Bromoform	20.1	21.1	20.6		<b>105</b>	<b>102</b>	66-139	3	25
100-42-5	Styrene	48.4	53.1	52.2		<b>110</b>	<b>108</b>	73-127	2	25
95-47-6	o-Xylene	47.4	49.2	48.0		<b>104</b>	<b>101</b>	67-125	3	25
108-67-8	1,3,5-Trimethylbenzene	41.9	45.0	43.7		<b>107</b>	<b>104</b>	67-130	3	25
95-63-6	1,2,4-Trimethylbenzene	41.5	48.5	47.0		<b>117</b>	<b>113</b>	66-132	3	25
120-82-1	1,2,4-Trichlorobenzene	52.3	66.0	64.7		<b>126</b>	<b>124</b>	55-142	2	25
91-20-3	Naphthalene	37.8	44.2	43.7		<b>117</b>	<b>116</b>	57-138	0.9	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	122	125	123	102	101	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	39.4	39.4	93	93	59-128	0	25	
74-87-3	Chloromethane	99.8	83.8	82.5	84	83	59-132	1	25	
75-01-4	Vinyl Chloride	81.4	76.6	76.0	94	93	64-127	1	25	
106-99-0	1,3-Butadiene	95.0	91.5	93.7	96	99	66-134	3	25	
75-00-3	Chloroethane	77.3	73.0	72.5	94	94	63-127	0	25	
64-17-5	Ethanol	530	492	496	93	94	59-125	1	25	
67-64-1	Acetone	435	394	392	91	90	58-128	1	25	
75-69-4	Trichlorofluoromethane	36.3	34.9	34.7	96	96	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	144	143	87	86	52-125	1	25	
75-09-2	Methylene Chloride	59.9	55.8	55.3	93	92	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	27.9	26.7	26.7	96	96	66-126	0	25	
75-15-0	Carbon Disulfide	137	133	132	97	96	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	49.1	48.7	94	93	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	142	141	101	101	67-130	0	25	
141-78-6	Ethyl Acetate	117	145	144	124	123	65-128	0.8	25	
110-54-3	n-Hexane	60.2	62.5	61.5	104	102	63-120	2	25	
67-66-3	Chloroform	43.8	41.3	41.0	94	94	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	136	131	130	96	96	64-123	0	25	
107-06-2	1,2-Dichloroethane	51.4	49.3	49.0	96	95	65-128	1	25	
71-43-2	Benzene	63.9	60.1	59.4	94	93	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	31.9	31.4	96	94	68-132	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		DOD		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	121	120	118	99	98	70-117	1	25	
75-27-4	Bromodichloromethane	31.4	31.7	31.3	101	100	72-128	1	25	
79-01-6	Trichloroethene	38.3	36.5	36.1	95	94	71-123	1	25	
123-91-1	1,4-Dioxane	57.7	57.9	56.9	100	99	71-122	1	25	
142-82-5	n-Heptane	51.3	49.9	49.6	97	97	69-123	0	25	
108-10-1	4-Methyl-2-pentanone	102	106	104	104	102	67-130	2	25	
108-88-3	Toluene	54.7	51.8	51.6	95	94	66-119	1	25	
591-78-6	2-Hexanone	98.7	105	104	106	105	62-128	0.9	25	
124-48-1	Dibromochloromethane	24.7	26.1	26.1	106	106	70-130	0	25	
106-93-4	1,2-Dibromoethane	27.1	27.3	27.0	101	100	74-122	1	25	
127-18-4	Tetrachloroethene	30.4	29.8	29.7	98	98	66-124	0	25	
100-41-4	Ethylbenzene	47.4	46.8	46.6	99	98	70-124	1	25	
179601-23-1	m,p-Xylenes	94.9	95.7	94.7	101	100	61-134	1	25	
75-25-2	Bromoform	20.1	20.7	20.6	103	102	66-139	1	25	
100-42-5	Styrene	48.4	52.2	51.6	108	107	73-127	0.9	25	
95-47-6	o-Xylene	47.4	48.1	47.5	101	100	67-125	1	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	43.9	43.2	105	103	67-130	2	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	46.7	46.2	113	111	66-132	2	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	63.7	63.4	122	121	55-142	0.8	25	
91-20-3	Naphthalene	37.8	42.7	42.8	113	113	57-138	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-006DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00776

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -3.19

Final Pressure (psig): 7.60

Initial Pressure 2 (psig): 0.15

Final Pressure 2 (psig): 4.51

Container Dilution Factor: 2.51

Compound	Sample Result ppbV	Duplicate		Average ppbV	% RPD	RPD Limit	Data Qualifier
		Sample Result ppbV	Sample Result ppbV				
Propene	ND	ND	ND	-	-	25	
Dichlorodifluoromethane (CFC 12)	ND	ND	ND	-	-	25	
Chloromethane	15	15	15	15	0	25	J
Vinyl Chloride	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	-	-	25	
Ethanol	ND	ND	ND	-	-	25	
Acetone	ND	ND	ND	-	-	25	
Trichlorofluoromethane	ND	ND	ND	-	-	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	-	-	25	
Methylene Chloride	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	-	-	25	
Carbon Disulfide	37	36	36.5	36.5	3	25	J
1,1-Dichloroethane	ND	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	ND	-	-	25	
Ethyl Acetate	30	29	29.5	29.5	3	25	J
n-Hexane	21	21	21	21	0	25	J
Chloroform	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	7.3	6.6	6.95	6.95	10	25	J
1,2-Dichloroethane	ND	ND	ND	-	-	25	
Benzene	190	190	190	190	0	25	
Carbon Tetrachloride	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV134-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005896

ALS Sample ID: P2005896-006DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00776

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/2/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -3.19

Final Pressure (psig): 7.60

Initial Pressure 2 (psig): 0.15

Final Pressure 2 (psig): 4.51

Container Dilution Factor: 2.51

Compound	Sample Result ppbV	Duplicate		Average ppbV	% RPD	RPD Limit	Data Qualifier
		Sample Result ppbV	Sample Result ppbV				
Cyclohexane	16	17	16.5	6	25	J	
Bromodichloromethane	ND	ND	-	-	25		
Trichloroethene	3.3	3.1	3.2	6	25	J	
1,4-Dioxane	ND	ND	-	-	25		
n-Heptane	11	9.7	10.35	13	25	J	
4-Methyl-2-pentanone	ND	ND	-	-	25		
Toluene	26	25	25.5	4	25		
2-Hexanone	ND	ND	-	-	25		
Dibromochloromethane	ND	ND	-	-	25		
1,2-Dibromoethane	ND	ND	-	-	25		
Tetrachloroethene	ND	ND	-	-	25		
Ethylbenzene	4.5	4.3	4.4	5	25	J	
m,p-Xylenes	ND	ND	-	-	25		
Bromoform	ND	ND	-	-	25		
Styrene	ND	ND	-	-	25		
o-Xylene	19	19	19	0	25	J	
1,3,5-Trimethylbenzene	8.8	8.6	8.7	2	25	J	
1,2,4-Trimethylbenzene	ND	ND	-	-	25		
1,2,4-Trichlorobenzene	ND	ND	-	-	25		
Naphthalene	ND	ND	-	-	25		
Xylenes, Total	19	19	19	0	25	J	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.



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## LABORATORY REPORT

November 9, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 19, 2020. For your reference, these analyses have been assigned our service request number P2005897.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*Kate Kaneko*  
Nov 09, 2020, 4:53 pm

Kate Kaneko  
Project Manager

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RIGHT SOLUTIONS | RIGHT PARTNER



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[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2005897

## CASE NARRATIVE

The samples were received intact under chain of custody on October 19, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2005897-018	Propene
P2005897-001	Acetone
P2005897-007	1,2,4-Trimethylbenzene

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

RIGHT SOLUTIONS | RIGHT PARTNER



2655 Park Center Dr., Suite A  
 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2005897

Date Received: 10/19/2020  
 Time Received: 09:30

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SV139-050-204	P2005897-001	Air	10/12/2020	08:46	1SC00903	-3.99	6.09	X
SV139-050-604	P2005897-002	Air	10/12/2020	08:46	1SC00477	-2.73	6.26	X
SV139-150-204	P2005897-003	Air	10/12/2020	08:52	1SC00950	-4.02	5.08	X
SV139-250-204	P2005897-004	Air	10/12/2020	08:57	1SS00743	-3.16	6.22	X
SV139-350-204	P2005897-005	Air	10/12/2020	09:04	1SC00767	-2.61	6.23	X
SV139-450-204	P2005897-006	Air	10/12/2020	09:13	1SC01383	-2.20	8.01	X
SV140-025-204	P2005897-007	Air	10/12/2020	12:36	1SS00792	-3.22	6.41	X
SV140-050-204	P2005897-008	Air	10/12/2020	12:39	1SC01023	-3.11	6.23	X
SV140-150-204	P2005897-009	Air	10/12/2020	12:43	1SC00780	-3.06	5.51	X
SV140-250-204	P2005897-010	Air	10/12/2020	12:46	1SS00956	-3.47	6.26	X
SV140-350-204	P2005897-011	Air	10/12/2020	12:50	1SS00970	-3.01	5.43	X
SV140-450-604	P2005897-012	Air	10/12/2020	12:59	1SC01342	-3.04	6.32	X
SV140-450-204	P2005897-013	Air	10/12/2020	12:59	1SS00820	-2.92	5.53	X
SVE12-410-204	P2005897-014	Air	10/13/2020	10:41	1SC00123	-3.77	5.16	X
SV07-050-204	P2005897-015	Air	10/13/2020	13:20	1SC00439	-2.48	7.96	X
SV07-100-204	P2005897-016	Air	10/13/2020	13:22	1SS00740	-5.26	5.31	X
SV07-150-204	P2005897-017	Air	10/13/2020	13:26	1SS00025	-4.64	6.61	X
SV14-150-204	P2005897-018	Air	10/13/2020	10:26	1SS00260	-2.37	6.11	X
SV14-250-204	P2005897-019	Air	10/13/2020	10:28	1SS00206	-4.30	6.41	X
SV14-350-204	P2005897-020	Air	10/13/2020	10:32	1SC01047	-2.65	5.14	X
SV14-450-204	P2005897-021	Air	10/13/2020	10:35	1SS00045	-4.19	6.81	X
SV14-450-604	P2005897-022	Air	10/13/2020	10:35	1SS01104	-2.44	6.31	X
SVTB204-02	P2005897-023	Air	10/13/2020	12:00	1SS00545	-14.26	6.17	X

**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270



COC #: **COC-SV204-09**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No. **10055897**  
 ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Project Name  
 Kirtland AFB Bulk Fuels Facility

Project Number  
 62735DM02

P.O. # / Billing Information  
 17682

Sampler (Print & Sign)

Canister ID (Bar code # - AC, SC, etc.)

Flow Controller ID (Bar code # - FC #)

Canister Start Pressure <sup>in</sup>Hg

Canister End Pressure <sup>in</sup>Hg

Sample Volume

Client Sample ID

Date Collected

Time Collected

Laboratory ID Number

Time Collected

Comments e.g. Actual Preservative or specific instructions

Analysis Method

TO-15 Project Specific List

None

**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270



COC #: **COC-SV204-10**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No: **7005897**

ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Project Name  
 Kirtland AFB Bulk Fuels Facility

Project Number  
 62735DM02

P.O. # / Billing Information  
 17682

Sampler (Print & Sign)

Company Name & Address (Reporting Information)  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

Project Manager / Project Chemist  
 Devon Jercinovic (505) 715-4248 / Pam Moss (303) 590-9143

Tara Lamond:  
 Email Address for Result Reporting: [tiamond@eaest.com](mailto:tiamond@eaest.com)

Amanda Smith:  
 Email Address for Result Reporting: [asmith@eaest.com](mailto:asmith@eaest.com)

Pam Moss:  
 Email Address for Result Reporting: [pmoss@eaest.com](mailto:pmoss@eaest.com)

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hgpsig	Sample Volume	Analysis Method	Comments e.g. Actual Preservative or specific instructions
SV140-350-204	11	10/12/2020	1250	1SS00870	NA	-26.0	-1.0	1L	X	None
SV140-450-604	12	10/12/2020	1259	1SC01342	NA	-26.0	-2.5	1L	X	None
SV140-450-204	13	10/12/2020	1259	1SS00820	NA	-27.0	-1.5	1L	X	None
SVE12-410-204	14	10/13/2020	1041	1SC00123	NA	-26.5	-4.0	1L	X	None
SV07-050-204	15	10/13/2020	1320	1SC00439	NA	-24.5	-1.0	1L	X	None
SV07-100-204	16	10/13/2020	1322	1SS00740	AVG04448	-25.0	-5.0	1L	X	None
SV07-150-204	17	10/13/2020	1328	1SS00025	NA	-27.0	-5.0	1L	X	None
SV14-150-204	18	10/13/2020	1026	1SS00260	NA	-25.0	-2.0	1L	X	None
SV14-250-204	19	10/13/2020	1028	1SS00206	NA	-26.5	-5.0	1L	X	None
SV14-350-204	20	10/13/2020	1032	1SC01047	NA	-25.0	-2.0	1L	X	None

FedEX Tracking Number: **1028 3402 4512**  
 Shipping information: Box number 5 of 6  
 Associated with Trip blank: SV7B204-02

Report Tier Levels - please select  
 Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) *Andr* Date: 10/14/20 Time: 1000  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

EDD required: Yes  
 Type: ERPIMS / EQUIS  
 Received by: (Signature) *RPV*  
 Received by: (Signature) \_\_\_\_\_

Chain of Custody Seal: (Circle)  
 INTACT  BROKEN  ABSENT   
 Date: 10/19/20 Time: 1300  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Project Requirements: QAPP  
 Cooler / Blank Temperature NA °C



**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2005897  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/19/20 Date opened: 10/19/20 by: DENISE.POSADA

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |    |   | <u>Yes</u>                          | <u>No</u>                | <u>N/A</u>                          |
|----|---|-------------------------------------|--------------------------|-------------------------------------|
| 1  | Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2  | Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3  | Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4  | Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5  | Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6  | Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7  | Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8  | Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Location of seal(s)? <u>Box sealing.</u> Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|    | Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9  | Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Is there a client indication that the submitted samples are <b>pH</b> preserved?                              | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?     | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | <b>Tubes:</b> Are the tubes capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 | <b>Badges:</b> Are the badges properly capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|    | Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2005897-001.01	1.0 L Source Can					
P2005897-002.01	1.0 L Source Can					
P2005897-003.01	1.0 L Source Can					
P2005897-004.01	1.0 L Source Silonite Canister					
P2005897-005.01	1.0 L Source Can					
P2005897-006.01	1.0 L Source Can					
P2005897-007.01	1.0 L Source Silonite Canister					
P2005897-008.01	1.0 L Source Can					
P2005897-009.01	1.0 L Source Can					
P2005897-010.01	1.0 L Source Silonite Canister					
P2005897-011.01	1.0 L Source Silonite Canister					
P2005897-012.01	1.0 L Source Can					
P2005897-013.01	1.0 L Source Silonite Canister					
P2005897-014.01	1.0 L Source Can					
P2005897-015.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00903

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.99 Final Pressure (psig): 6.09

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.94</b>	1.5	0.90	0.37	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.53</b>	0.51	0.31	0.085	
74-87-3	Chloromethane	0.75	1.2	0.75	0.20	<b>U</b>
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	<b>U</b>
75-00-3	Chloroethane	0.59	0.96	0.59	0.12	<b>U</b>
64-17-5	Ethanol	<b>10</b>	14	2.1	0.95	<b>J</b>
67-64-1	Acetone	<b>14</b>	11	5.5	2.5	
75-69-4	Trichlorofluoromethane	<b>0.52</b>	0.44	0.28	0.070	
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.65</b>	2.0	1.2	0.43	<b>J</b>
75-09-2	Methylene Chloride	<b>0.32</b>	0.73	0.45	0.21	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>4.1</b>	0.34	0.11	0.048	
75-15-0	Carbon Disulfide	<b>0.63</b>	1.6	0.84	0.25	<b>J</b>
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>4.2</b>	1.6	0.53	0.18	
141-78-6	Ethyl Acetate	<b>1.3</b>	1.3	0.88	0.38	<b>J, L</b>
110-54-3	n-Hexane	0.44	0.72	0.44	0.15	<b>U</b>
67-66-3	Chloroform	<b>0.63</b>	0.53	0.17	0.071	
109-99-9	Tetrahydrofuran (THF)	<b>5.6</b>	1.6	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.071	<b>U</b>
71-43-2	Benzene	0.26	0.79	0.26	0.12	<b>U</b>
56-23-5	Carbon Tetrachloride	<b>1.2</b>	0.39	0.13	0.057	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-001

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00903

Initial Pressure (psig): -3.99 Final Pressure (psig): 6.09

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.48	1.4	0.48	0.21	U
75-27-4	Bromodichloromethane	0.12	0.38	0.12	0.056	U
79-01-6	Trichloroethene	0.15	0.46	0.15	0.065	U
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.085	U
142-82-5	n-Heptane	0.38	0.62	0.38	0.10	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	<b>0.27</b>	0.67	0.22	0.084	J
591-78-6	2-Hexanone	<b>0.60</b>	1.2	0.20	0.078	J
124-48-1	Dibromochloromethane	0.097	0.30	0.097	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.064</b>	0.37	0.12	0.049	J
100-41-4	Ethylbenzene	0.19	0.58	0.19	0.084	U
179601-23-1	m,p-Xylenes	<b>0.25</b>	1.1	0.38	0.16	J
75-25-2	Bromoform	0.15	0.25	0.15	0.052	U
100-42-5	Styrene	0.36	0.59	0.36	0.098	U
95-47-6	o-Xylene	<b>0.10</b>	0.59	0.19	0.086	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.076</b>	0.52	0.17	0.076	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.38</b>	0.51	0.17	0.073	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	U
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	U
1330-20-7	Xylenes, Total	<b>0.35</b>	1.1	0.38	0.16	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00477

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.73 Final Pressure (psig): 6.26

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.90</b>	1.3	0.81	0.33	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.51</b>	0.46	0.28	0.077	
74-87-3	Chloromethane	0.68	1.1	0.68	0.18	<b>U</b>
75-01-4	Vinyl Chloride	0.29	0.91	0.29	0.098	<b>U</b>
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	<b>U</b>
75-00-3	Chloroethane	0.53	0.86	0.53	0.11	<b>U</b>
64-17-5	Ethanol	<b>5.5</b>	12	1.9	0.86	<b>J</b>
67-64-1	Acetone	<b>13</b>	9.6	5.0	2.2	
75-69-4	Trichlorofluoromethane	<b>0.51</b>	0.40	0.25	0.063	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	<b>U</b>
75-09-2	Methylene Chloride	0.40	0.66	0.40	0.19	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>4.0</b>	0.30	0.097	0.043	
75-15-0	Carbon Disulfide	<b>2.9</b>	1.4	0.76	0.22	
75-34-3	1,1-Dichloroethane	0.36	0.58	0.36	0.084	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.9</b>	1.5	0.47	0.16	
141-78-6	Ethyl Acetate	<b>6.1</b>	1.2	0.79	0.34	<b>L</b>
110-54-3	n-Hexane	<b>0.22</b>	0.65	0.40	0.14	<b>J</b>
67-66-3	Chloroform	<b>0.60</b>	0.48	0.15	0.064	
109-99-9	Tetrahydrofuran (THF)	<b>6.5</b>	1.5	0.25	0.099	
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.064	<b>U</b>
71-43-2	Benzene	<b>0.24</b>	0.71	0.23	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>2.3</b>	0.35	0.12	0.051	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-002

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00477

Initial Pressure (psig): -2.73 Final Pressure (psig): 6.26

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.43	1.3	0.43	0.19	U
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.050	U
79-01-6	Trichloroethene	0.14	0.42	0.14	0.059	U
123-91-1	1,4-Dioxane	<b>0.14</b>	0.63	0.21	0.077	J
142-82-5	n-Heptane	<b>0.22</b>	0.56	0.34	0.091	J
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.078	U
108-88-3	Toluene	<b>1.8</b>	0.60	0.20	0.075	J
591-78-6	2-Hexanone	<b>0.33</b>	1.1	0.18	0.071	J
124-48-1	Dibromochloromethane	0.087	0.27	0.087	0.036	U
106-93-4	1,2-Dibromoethane	0.097	0.30	0.097	0.035	U
127-18-4	Tetrachloroethene	<b>0.059</b>	0.34	0.11	0.045	J
100-41-4	Ethylbenzene	<b>0.16</b>	0.52	0.17	0.076	J
179601-23-1	m,p-Xylenes	<b>0.94</b>	1.0	0.34	0.14	J
75-25-2	Bromoform	0.14	0.22	0.14	0.047	U
100-42-5	Styrene	<b>0.14</b>	0.53	0.33	0.088	J
95-47-6	o-Xylene	<b>0.31</b>	0.53	0.17	0.078	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.25</b>	0.47	0.15	0.069	J
95-63-6	1,2,4-Trimethylbenzene	<b>1.4</b>	0.46	0.15	0.066	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.59	0.19	0.077	U
91-20-3	Naphthalene	<b>0.89</b>	0.43	0.26	0.11	J
1330-20-7	Xylenes, Total	<b>1.2</b>	1.0	0.34	0.14	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00950

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -4.02 Final Pressure (psig): 5.08

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.86	1.4	0.86	0.35	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.94</b>	0.49	0.30	0.081	
74-87-3	Chloromethane	0.72	1.2	0.72	0.19	U
75-01-4	Vinyl Chloride	0.31	0.96	0.31	0.10	U
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.18	U
75-00-3	Chloroethane	0.56	0.91	0.56	0.12	U
64-17-5	Ethanol	<b>6.3</b>	13	2.0	0.91	J
67-64-1	Acetone	5.3	10	5.3	2.3	U
75-69-4	Trichlorofluoromethane	<b>6.3</b>	0.42	0.26	0.067	
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.58</b>	1.9	1.2	0.41	J
75-09-2	Methylene Chloride	0.43	0.69	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	<b>70</b>	3.2	1.0	0.46	D
75-15-0	Carbon Disulfide	0.80	1.5	0.80	0.24	U
75-34-3	1,1-Dichloroethane	0.38	0.62	0.38	0.089	U
78-93-3	2-Butanone (MEK)	<b>3.7</b>	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	<b>12</b>	1.3	0.83	0.36	L
110-54-3	n-Hexane	<b>0.47</b>	0.68	0.42	0.14	J
67-66-3	Chloroform	<b>39</b>	0.50	0.16	0.067	
109-99-9	Tetrahydrofuran (THF)	<b>7.1</b>	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	<b>0.29</b>	0.75	0.25	0.11	J
56-23-5	Carbon Tetrachloride	<b>35</b>	0.38	0.13	0.054	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-003

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao/Topacio De Leon

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SC00950

Initial Pressure (psig): -4.02 Final Pressure (psig): 5.08

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	80	1.3	0.46	0.20	
75-27-4	Bromodichloromethane	0.22	0.36	0.12	0.053	J
79-01-6	Trichloroethene	0.091	0.44	0.15	0.062	J
123-91-1	1,4-Dioxane	0.22	0.67	0.22	0.081	U
142-82-5	n-Heptane	0.36	0.59	0.36	0.096	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.082	U
108-88-3	Toluene	0.21	0.64	0.21	0.080	U
591-78-6	2-Hexanone	0.19	1.1	0.19	0.075	U
124-48-1	Dibromochloromethane	0.092	0.28	0.092	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	0.35	0.35	0.12	0.047	J
100-41-4	Ethylbenzene	0.18	0.55	0.18	0.080	U
179601-23-1	m,p-Xylenes	0.22	1.1	0.36	0.15	J
75-25-2	Bromoform	0.14	0.24	0.14	0.049	U
100-42-5	Styrene	0.35	0.57	0.35	0.093	U
95-47-6	o-Xylene	0.087	0.56	0.18	0.082	J
108-67-8	1,3,5-Trimethylbenzene	0.16	0.50	0.16	0.072	U
95-63-6	1,2,4-Trimethylbenzene	0.24	0.49	0.16	0.070	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.081	U
91-20-3	Naphthalene	0.19	0.46	0.27	0.11	J
1330-20-7	Xylenes, Total	0.31	1.1	0.36	0.15	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-004

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.025 Liter(s)

Test Notes:

Container ID: 1SS00743

Initial Pressure (psig): -3.16 Final Pressure (psig): 6.22

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	150	22	13	5.5	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.3	7.6	4.7	1.3	J
74-87-3	Chloromethane	11	18	11	3.0	U
75-01-4	Vinyl Chloride	4.8	15	4.8	1.6	U
106-99-0	1,3-Butadiene	10	17	10	2.9	U
75-00-3	Chloroethane	8.8	14	8.8	1.8	U
64-17-5	Ethanol	32	200	32	14	U
67-64-1	Acetone	82	160	82	37	U
75-69-4	Trichlorofluoromethane	9.7	6.6	4.1	1.0	
67-63-0	2-Propanol (Isopropyl Alcohol)	19	29	19	6.5	U
75-09-2	Methylene Chloride	6.7	11	6.7	3.1	U
76-13-1	Trichlorotrifluoroethane	110	5.0	1.6	0.72	
75-15-0	Carbon Disulfide	13	23	13	3.7	U
75-34-3	1,1-Dichloroethane	5.9	9.7	5.9	1.4	U
78-93-3	2-Butanone (MEK)	7.9	25	7.9	2.7	U
141-78-6	Ethyl Acetate	13	20	13	5.6	U, L
110-54-3	n-Hexane	2,000	11	6.6	2.3	
67-66-3	Chloroform	78	7.9	2.5	1.1	
109-99-9	Tetrahydrofuran (THF)	3.4	25	4.2	1.6	J
107-06-2	1,2-Dichloroethane	3.0	9.3	3.0	1.1	U
71-43-2	Benzene	98	12	3.9	1.7	
56-23-5	Carbon Tetrachloride	42	5.9	2.0	0.85	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-004

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.025 Liter(s)

Test Notes:

Container ID: 1SS00743

Initial Pressure (psig): -3.16 Final Pressure (psig): 6.22

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1,700</b>	21	7.2	3.2	
75-27-4	Bromodichloromethane	1.8	5.6	1.8	0.83	U
79-01-6	Trichloroethene	2.3	6.9	2.3	0.97	U
123-91-1	1,4-Dioxane	3.4	10	3.4	1.3	U
142-82-5	n-Heptane	<b>690</b>	9.2	5.7	1.5	
108-10-1	4-Methyl-2-pentanone	3.0	18	3.0	1.3	U
108-88-3	Toluene	<b>70</b>	10	3.3	1.2	
591-78-6	2-Hexanone	3.0	18	3.0	1.2	U
124-48-1	Dibromochloromethane	1.4	4.4	1.4	0.60	U
106-93-4	1,2-Dibromoethane	1.6	4.9	1.6	0.58	U
127-18-4	Tetrachloroethene	1.8	5.6	1.8	0.74	U
100-41-4	Ethylbenzene	2.8	8.7	2.8	1.3	U
179601-23-1	m,p-Xylenes	5.7	17	5.7	2.3	U
75-25-2	Bromoform	2.2	3.7	2.2	0.77	U
100-42-5	Styrene	5.4	8.8	5.4	1.5	U
95-47-6	o-Xylene	2.8	8.8	2.8	1.3	U
108-67-8	1,3,5-Trimethylbenzene	2.5	7.8	2.5	1.1	U
95-63-6	1,2,4-Trimethylbenzene	2.5	7.7	2.5	1.1	U
120-82-1	1,2,4-Trichlorobenzene	3.1	9.8	3.1	1.3	U
91-20-3	Naphthalene	4.3	7.2	4.3	1.8	U
1330-20-7	Xylenes, Total	5.7	17	5.7	2.3	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00767

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.61 Final Pressure (psig): 6.23

Container Dilution Factor: 1.73

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.80	1.3	0.80	0.33	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.77</b>	0.46	0.28	0.076	
74-87-3	Chloromethane	0.67	1.1	0.67	0.18	U
75-01-4	Vinyl Chloride	0.29	0.90	0.29	0.096	U
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	U
75-00-3	Chloroethane	<b>0.11</b>	0.85	0.52	0.11	J
64-17-5	Ethanol	<b>4.2</b>	12	1.9	0.85	J
67-64-1	Acetone	4.9	9.5	4.9	2.2	U
75-69-4	Trichlorofluoromethane	<b>12</b>	0.39	0.25	0.062	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	U
75-09-2	Methylene Chloride	0.40	0.65	0.40	0.19	U
76-13-1	Trichlorotrifluoroethane	<b>100</b>	3.0	0.96	0.43	D
75-15-0	Carbon Disulfide	0.75	1.4	0.75	0.22	U
75-34-3	1,1-Dichloroethane	0.35	0.58	0.35	0.083	U
78-93-3	2-Butanone (MEK)	0.47	1.5	0.47	0.16	U
141-78-6	Ethyl Acetate	0.78	1.2	0.78	0.34	U, L
110-54-3	n-Hexane	0.39	0.64	0.39	0.14	U
67-66-3	Chloroform	<b>110</b>	4.7	1.5	0.63	D
109-99-9	Tetrahydrofuran (THF)	<b>1.3</b>	1.5	0.25	0.098	J
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.063	U
71-43-2	Benzene	<b>23</b>	0.70	0.23	0.10	
56-23-5	Carbon Tetrachloride	<b>25</b>	0.35	0.12	0.051	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00767

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.61 Final Pressure (psig): 6.23

Container Dilution Factor: 1.73

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	9.1	1.3	0.43	0.19	
75-27-4	Bromodichloromethane	1.6	0.34	0.11	0.050	
79-01-6	Trichloroethene	0.83	0.41	0.14	0.058	
123-91-1	1,4-Dioxane	0.20	0.62	0.20	0.076	U
142-82-5	n-Heptane	0.34	0.55	0.34	0.090	U
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.077	U
108-88-3	Toluene	14	0.60	0.20	0.075	
591-78-6	2-Hexanone	0.20	1.1	0.18	0.070	J
124-48-1	Dibromochloromethane	0.086	0.26	0.086	0.036	U
106-93-4	1,2-Dibromoethane	0.096	0.29	0.096	0.035	U
127-18-4	Tetrachloroethene	0.72	0.33	0.11	0.044	
100-41-4	Ethylbenzene	0.087	0.52	0.17	0.075	J
179601-23-1	m,p-Xylenes	0.37	1.0	0.34	0.14	J
75-25-2	Bromoform	0.13	0.22	0.13	0.046	U
100-42-5	Styrene	0.33	0.53	0.33	0.087	U
95-47-6	o-Xylene	0.24	0.53	0.17	0.077	J
108-67-8	1,3,5-Trimethylbenzene	0.15	0.47	0.15	0.068	U
95-63-6	1,2,4-Trimethylbenzene	0.19	0.46	0.15	0.065	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.58	0.19	0.076	U
91-20-3	Naphthalene	0.11	0.43	0.26	0.11	J
1330-20-7	Xylenes, Total	0.61	1.0	0.34	0.14	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01383

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.20 Final Pressure (psig): 8.01

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3.6	1.4	0.85	0.34	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.30	0.48	0.29	0.080	J
74-87-3	Chloromethane	11	1.1	0.71	0.19	
75-01-4	Vinyl Chloride	2.5	0.94	0.30	0.10	
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	2.9	0.90	0.55	0.11	
64-17-5	Ethanol	5.7	13	2.0	0.89	J
67-64-1	Acetone	17	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	0.51	0.41	0.26	0.066	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.81	1.9	1.2	0.41	J
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	2.9	0.31	0.10	0.045	
75-15-0	Carbon Disulfide	20	1.5	0.79	0.23	
75-34-3	1,1-Dichloroethane	0.13	0.61	0.37	0.088	J
78-93-3	2-Butanone (MEK)	3.4	1.5	0.49	0.17	
141-78-6	Ethyl Acetate	0.82	1.3	0.82	0.35	U, L
110-54-3	n-Hexane	0.22	0.67	0.41	0.14	J
67-66-3	Chloroform	9.9	0.49	0.16	0.066	
109-99-9	Tetrahydrofuran (THF)	8.7	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	1.1	0.58	0.19	0.066	
71-43-2	Benzene	0.80	0.74	0.24	0.11	
56-23-5	Carbon Tetrachloride	11	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01383

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.20 Final Pressure (psig): 8.01

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	<b>0.65</b>	0.35	0.12	0.052	
79-01-6	Trichloroethene	<b>4.0</b>	0.43	0.14	0.061	
123-91-1	1,4-Dioxane	0.21	0.66	0.21	0.080	U
142-82-5	n-Heptane	<b>0.23</b>	0.58	0.36	0.094	J
108-10-1	4-Methyl-2-pentanone	<b>0.14</b>	1.1	0.19	0.081	J
108-88-3	Toluene	<b>0.61</b>	0.63	0.21	0.079	J
591-78-6	2-Hexanone	<b>0.35</b>	1.1	0.19	0.073	J
124-48-1	Dibromochloromethane	<b>0.060</b>	0.28	0.091	0.037	J
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.84</b>	0.35	0.11	0.046	
100-41-4	Ethylbenzene	<b>0.82</b>	0.54	0.18	0.079	
179601-23-1	m,p-Xylenes	<b>2.6</b>	1.0	0.36	0.15	
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.56	0.34	0.092	U
95-47-6	o-Xylene	<b>0.57</b>	0.56	0.18	0.081	
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.071	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.19</b>	0.48	0.16	0.069	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.080	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	<b>3.1</b>	1.0	0.36	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00792

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 6.41

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.90</b>	1.4	0.86	0.35	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.54</b>	0.48	0.30	0.081	
74-87-3	Chloromethane	<b>0.43</b>	1.2	0.71	0.19	<b>J</b>
75-01-4	Vinyl Chloride	0.31	0.95	0.31	0.10	<b>U</b>
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.18	<b>U</b>
75-00-3	Chloroethane	0.56	0.91	0.56	0.12	<b>U</b>
64-17-5	Ethanol	<b>1.6</b>	13	2.0	0.90	<b>J</b>
67-64-1	Acetone	<b>23</b>	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	<b>0.19</b>	0.42	0.26	0.066	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.84</b>	1.9	1.2	0.41	<b>J</b>
75-09-2	Methylene Chloride	0.42	0.69	0.42	0.20	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.063</b>	0.32	0.10	0.046	<b>J</b>
75-15-0	Carbon Disulfide	<b>6.6</b>	1.5	0.80	0.24	
75-34-3	1,1-Dichloroethane	0.38	0.61	0.38	0.089	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>16</b>	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	<b>U, L</b>
110-54-3	n-Hexane	<b>0.64</b>	0.68	0.42	0.14	<b>J</b>
67-66-3	Chloroform	<b>0.40</b>	0.50	0.16	0.067	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>9.6</b>	1.6	0.27	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	<b>U</b>
71-43-2	Benzene	<b>1.7</b>	0.75	0.24	0.11	
56-23-5	Carbon Tetrachloride	<b>0.44</b>	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00792

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 6.41

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.43</b>	1.3	0.45	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	<b>U</b>
79-01-6	Trichloroethene	0.15	0.44	0.15	0.062	<b>U</b>
123-91-1	1,4-Dioxane	0.22	0.66	0.22	0.080	<b>U</b>
142-82-5	n-Heptane	<b>0.82</b>	0.58	0.36	0.095	
108-10-1	4-Methyl-2-pentanone	<b>0.19</b>	1.1	0.19	0.082	<b>J</b>
108-88-3	Toluene	<b>4.8</b>	0.63	0.21	0.079	
591-78-6	2-Hexanone	0.19	1.1	0.19	0.074	<b>U</b>
124-48-1	Dibromochloromethane	0.092	0.28	0.092	0.038	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.11</b>	0.35	0.12	0.047	<b>J</b>
100-41-4	Ethylbenzene	<b>0.40</b>	0.55	0.18	0.079	<b>J</b>
179601-23-1	m,p-Xylenes	<b>1.6</b>	1.1	0.36	0.15	
75-25-2	Bromoform	0.14	0.24	0.14	0.049	<b>U</b>
100-42-5	Styrene	0.35	0.56	0.35	0.093	<b>U</b>
95-47-6	o-Xylene	<b>0.45</b>	0.56	0.18	0.082	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.10</b>	0.50	0.16	0.072	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.28</b>	0.49	0.16	0.069	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.081	<b>U</b>
91-20-3	Naphthalene	<b>0.13</b>	0.46	0.27	0.11	<b>J</b>
1330-20-7	Xylenes, Total	<b>2.1</b>	1.1	0.36	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-008

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01023

Initial Pressure (psig): -3.11 Final Pressure (psig): 6.23

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.89</b>	1.4	0.84	0.34	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.49</b>	0.48	0.29	0.080	
74-87-3	Chloromethane	<b>0.23</b>	1.1	0.70	0.19	<b>J</b>
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	<b>U</b>
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	<b>U</b>
75-00-3	Chloroethane	0.55	0.89	0.55	0.11	<b>U</b>
64-17-5	Ethanol	<b>5.3</b>	13	2.0	0.89	<b>J</b>
67-64-1	Acetone	<b>12</b>	9.9	5.1	2.3	
75-69-4	Trichlorofluoromethane	<b>0.21</b>	0.41	0.26	0.065	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.54</b>	1.8	1.2	0.41	<b>J</b>
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.075</b>	0.31	0.10	0.045	<b>J</b>
75-15-0	Carbon Disulfide	<b>9.3</b>	1.5	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.087	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.7</b>	1.5	0.49	0.17	
141-78-6	Ethyl Acetate	<b>50</b>	1.3	0.82	0.35	<b>L</b>
110-54-3	n-Hexane	<b>0.49</b>	0.67	0.41	0.14	<b>J</b>
67-66-3	Chloroform	<b>0.79</b>	0.49	0.16	0.066	
109-99-9	Tetrahydrofuran (THF)	<b>5.9</b>	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	<b>U</b>
71-43-2	Benzene	<b>0.70</b>	0.74	0.24	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.57</b>	0.37	0.12	0.053	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01023

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.11 Final Pressure (psig): 6.23

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	0.11	0.35	0.11	0.052	U
79-01-6	Trichloroethene	0.14	0.43	0.14	0.061	U
123-91-1	1,4-Dioxane	<b>0.21</b>	0.65	0.21	0.079	J
142-82-5	n-Heptane	<b>0.67</b>	0.57	0.35	0.094	
108-10-1	4-Methyl-2-pentanone	<b>0.11</b>	1.1	0.19	0.081	J
108-88-3	Toluene	<b>3.7</b>	0.62	0.20	0.078	
591-78-6	2-Hexanone	0.19	1.1	0.19	0.073	U
124-48-1	Dibromochloromethane	0.090	0.28	0.090	0.037	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.099</b>	0.35	0.11	0.046	J
100-41-4	Ethylbenzene	<b>0.31</b>	0.54	0.18	0.078	J
179601-23-1	m,p-Xylenes	<b>1.4</b>	1.0	0.35	0.15	
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.091	U
95-47-6	o-Xylene	<b>0.40</b>	0.55	0.18	0.080	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.10</b>	0.49	0.16	0.071	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.29</b>	0.48	0.16	0.068	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.079	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	<b>1.8</b>	1.0	0.35	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-009

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00780

Initial Pressure (psig): -3.06 Final Pressure (psig): 5.51

Container Dilution Factor: 1.74

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.47	1.3	0.81	0.33	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.62	0.46	0.28	0.077	
74-87-3	Chloromethane	0.67	1.1	0.67	0.18	U
75-01-4	Vinyl Chloride	0.29	0.90	0.29	0.097	U
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	U
75-00-3	Chloroethane	0.53	0.86	0.53	0.11	U
64-17-5	Ethanol	2.5	12	1.9	0.85	J
67-64-1	Acetone	12	9.5	4.9	2.2	
75-69-4	Trichlorofluoromethane	0.14	0.39	0.25	0.063	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	U
75-09-2	Methylene Chloride	0.40	0.65	0.40	0.19	U
76-13-1	Trichlorotrifluoroethane	0.055	0.30	0.097	0.043	J
75-15-0	Carbon Disulfide	0.83	1.4	0.75	0.22	J
75-34-3	1,1-Dichloroethane	0.35	0.58	0.35	0.084	U
78-93-3	2-Butanone (MEK)	1.8	1.5	0.47	0.16	
141-78-6	Ethyl Acetate	0.78	1.2	0.78	0.34	U, L
110-54-3	n-Hexane	0.40	0.64	0.40	0.14	U
67-66-3	Chloroform	0.88	0.47	0.15	0.063	
109-99-9	Tetrahydrofuran (THF)	32	1.5	0.25	0.099	
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.063	U
71-43-2	Benzene	0.23	0.71	0.23	0.10	U
56-23-5	Carbon Tetrachloride	1.6	0.35	0.12	0.051	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00780

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.06 Final Pressure (psig): 5.51

Container Dilution Factor: 1.74

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.43	1.3	0.43	0.19	U
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.050	U
79-01-6	Trichloroethene	0.14	0.41	0.14	0.058	U
123-91-1	1,4-Dioxane	0.21	0.63	0.21	0.076	U
142-82-5	n-Heptane	0.34	0.55	0.34	0.090	U
108-10-1	4-Methyl-2-pentanone	<b>0.14</b>	1.1	0.18	0.078	J
108-88-3	Toluene	<b>0.18</b>	0.60	0.20	0.075	J
591-78-6	2-Hexanone	<b>0.29</b>	1.1	0.18	0.070	J
124-48-1	Dibromochloromethane	0.087	0.27	0.087	0.036	U
106-93-4	1,2-Dibromoethane	0.096	0.29	0.096	0.035	U
127-18-4	Tetrachloroethene	<b>0.15</b>	0.33	0.11	0.044	J
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.13	0.22	0.13	0.046	U
100-42-5	Styrene	0.33	0.53	0.33	0.088	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.47	0.15	0.068	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.46	0.15	0.066	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.59	0.19	0.076	U
91-20-3	Naphthalene	0.26	0.43	0.26	0.11	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00956

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.47 Final Pressure (psig): 6.26

Container Dilution Factor: 1.87

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.49	1.4	0.87	0.35	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.3	0.49	0.30	0.082	
74-87-3	Chloromethane	0.72	1.2	0.72	0.19	U
75-01-4	Vinyl Chloride	0.31	0.97	0.31	0.10	U
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	U
75-00-3	Chloroethane	0.57	0.92	0.57	0.12	U
64-17-5	Ethanol	1.5	13	2.1	0.92	J
67-64-1	Acetone	5.3	10	5.3	2.4	U
75-69-4	Trichlorofluoromethane	0.21	0.42	0.27	0.067	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.42	U
75-09-2	Methylene Chloride	0.43	0.70	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	0.098	0.32	0.10	0.046	J
75-15-0	Carbon Disulfide	5.7	1.5	0.81	0.24	
75-34-3	1,1-Dichloroethane	0.38	0.62	0.38	0.090	U
78-93-3	2-Butanone (MEK)	1.4	1.6	0.51	0.17	J
141-78-6	Ethyl Acetate	0.84	1.3	0.84	0.36	U, L
110-54-3	n-Hexane	0.70	0.69	0.42	0.15	
67-66-3	Chloroform	0.38	0.51	0.16	0.068	J
109-99-9	Tetrahydrofuran (THF)	7.6	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.60	0.20	0.068	U
71-43-2	Benzene	0.20	0.76	0.25	0.11	J
56-23-5	Carbon Tetrachloride	0.55	0.38	0.13	0.055	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-010

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00956

Initial Pressure (psig): -3.47 Final Pressure (psig): 6.26

Container Dilution Factor: 1.87

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.59</b>	1.4	0.46	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.054	<b>U</b>
79-01-6	Trichloroethene	0.15	0.44	0.15	0.063	<b>U</b>
123-91-1	1,4-Dioxane	0.22	0.67	0.22	0.082	<b>U</b>
142-82-5	n-Heptane	<b>0.29</b>	0.59	0.37	0.097	<b>J</b>
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.083	<b>U</b>
108-88-3	Toluene	<b>0.28</b>	0.65	0.21	0.081	<b>J</b>
591-78-6	2-Hexanone	0.19	1.1	0.19	0.075	<b>U</b>
124-48-1	Dibromochloromethane	0.093	0.29	0.093	0.038	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	<b>U</b>
127-18-4	Tetrachloroethene	0.12	0.36	0.12	0.048	<b>U</b>
100-41-4	Ethylbenzene	0.18	0.56	0.18	0.081	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.17</b>	1.1	0.37	0.15	<b>J</b>
75-25-2	Bromoform	0.14	0.24	0.14	0.050	<b>U</b>
100-42-5	Styrene	0.35	0.57	0.35	0.094	<b>U</b>
95-47-6	o-Xylene	0.18	0.57	0.18	0.083	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.16	0.50	0.16	0.073	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.16	0.49	0.16	0.070	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.082	<b>U</b>
91-20-3	Naphthalene	0.28	0.46	0.28	0.12	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.17</b>	1.1	0.37	0.15	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00970

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.01 Final Pressure (psig): 5.43

Container Dilution Factor: 1.72

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.65</b>	1.3	0.80	0.32	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>5.3</b>	0.45	0.28	0.076	
74-87-3	Chloromethane	0.67	1.1	0.67	0.18	<b>U</b>
75-01-4	Vinyl Chloride	0.29	0.89	0.29	0.096	<b>U</b>
106-99-0	1,3-Butadiene	0.62	1.0	0.62	0.17	<b>U</b>
75-00-3	Chloroethane	0.52	0.85	0.52	0.11	<b>U</b>
64-17-5	Ethanol	<b>0.89</b>	12	1.9	0.84	<b>J</b>
67-64-1	Acetone	4.9	9.4	4.9	2.2	<b>U</b>
75-69-4	Trichlorofluoromethane	<b>0.49</b>	0.39	0.24	0.062	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	<b>U</b>
75-09-2	Methylene Chloride	0.40	0.64	0.40	0.19	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.088</b>	0.30	0.095	0.043	<b>J</b>
75-15-0	Carbon Disulfide	<b>2.9</b>	1.4	0.75	0.22	
75-34-3	1,1-Dichloroethane	0.35	0.57	0.35	0.083	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>0.69</b>	1.5	0.47	0.16	<b>J</b>
141-78-6	Ethyl Acetate	0.78	1.2	0.78	0.33	<b>U, L</b>
110-54-3	n-Hexane	<b>0.37</b>	0.63	0.39	0.13	<b>J</b>
67-66-3	Chloroform	0.15	0.47	0.15	0.063	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>6.7</b>	1.5	0.25	0.098	
107-06-2	1,2-Dichloroethane	0.18	0.55	0.18	0.063	<b>U</b>
71-43-2	Benzene	<b>6.2</b>	0.70	0.23	0.10	
56-23-5	Carbon Tetrachloride	0.12	0.35	0.12	0.051	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-011

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00970

Initial Pressure (psig): -3.01 Final Pressure (psig): 5.43

Container Dilution Factor: 1.72

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>4.5</b>	1.2	0.42	0.19	
75-27-4	Bromodichloromethane	0.11	0.33	0.11	0.049	U
79-01-6	Trichloroethene	0.14	0.41	0.14	0.058	U
123-91-1	1,4-Dioxane	0.20	0.62	0.20	0.075	U
142-82-5	n-Heptane	<b>0.21</b>	0.55	0.34	0.089	J
108-10-1	4-Methyl-2-pentanone	0.18	1.0	0.18	0.077	U
108-88-3	Toluene	<b>0.73</b>	0.59	0.19	0.074	
591-78-6	2-Hexanone	0.18	1.1	0.18	0.069	U
124-48-1	Dibromochloromethane	0.086	0.26	0.086	0.035	U
106-93-4	1,2-Dibromoethane	0.095	0.29	0.095	0.035	U
127-18-4	Tetrachloroethene	<b>0.14</b>	0.33	0.11	0.044	J
100-41-4	Ethylbenzene	<b>0.14</b>	0.51	0.17	0.074	J
179601-23-1	m,p-Xylenes	<b>0.28</b>	0.99	0.34	0.14	J
75-25-2	Bromoform	0.13	0.22	0.13	0.046	U
100-42-5	Styrene	0.32	0.53	0.32	0.087	U
95-47-6	o-Xylene	0.17	0.52	0.17	0.076	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.46	0.15	0.067	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.46	0.15	0.065	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.58	0.19	0.075	U
91-20-3	Naphthalene	0.25	0.43	0.25	0.11	U
1330-20-7	Xylenes, Total	<b>0.28</b>	0.99	0.34	0.14	J

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01342

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.04 Final Pressure (psig): 6.32

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.86	1.4	0.84	0.34	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.77	0.47	0.29	0.079	
74-87-3	Chloromethane	1.1	1.1	0.70	0.19	J
75-01-4	Vinyl Chloride	0.32	0.93	0.30	0.10	J
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	U
75-00-3	Chloroethane	0.41	0.89	0.55	0.11	J
64-17-5	Ethanol	2.6	13	2.0	0.88	J
67-64-1	Acetone	73	9.9	5.1	2.3	
75-69-4	Trichlorofluoromethane	0.12	0.41	0.26	0.065	J
67-63-0	2-Propanol (Isopropyl Alcohol)	0.46	1.8	1.2	0.40	J
75-09-2	Methylene Chloride	0.41	0.67	0.41	0.19	U
76-13-1	Trichlorotrifluoroethane	0.10	0.31	0.10	0.045	U
75-15-0	Carbon Disulfide	4.4	1.4	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.087	U
78-93-3	2-Butanone (MEK)	68	1.5	0.49	0.17	
141-78-6	Ethyl Acetate	0.81	1.2	0.81	0.35	U, L
110-54-3	n-Hexane	0.74	0.66	0.41	0.14	
67-66-3	Chloroform	0.39	0.49	0.16	0.065	J
109-99-9	Tetrahydrofuran (THF)	24	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	J
71-43-2	Benzene	3.8	0.73	0.24	0.11	
56-23-5	Carbon Tetrachloride	0.54	0.36	0.12	0.053	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01342

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.04 Final Pressure (psig): 6.32

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1.1</b>	1.3	0.44	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.11	0.35	0.11	0.052	<b>U</b>
79-01-6	Trichloroethene	0.14	0.43	0.14	0.060	<b>U</b>
123-91-1	1,4-Dioxane	0.21	0.65	0.21	0.079	<b>U</b>
142-82-5	n-Heptane	<b>0.35</b>	0.57	0.35	0.093	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>0.54</b>	1.1	0.19	0.080	<b>J</b>
108-88-3	Toluene	<b>7.7</b>	0.62	0.20	0.078	<b>J</b>
591-78-6	2-Hexanone	0.19	1.1	0.19	0.073	<b>U</b>
124-48-1	Dibromochloromethane	0.090	0.27	0.090	0.037	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.30	0.10	0.036	<b>U</b>
127-18-4	Tetrachloroethene	0.11	0.35	0.11	0.046	<b>U</b>
100-41-4	Ethylbenzene	<b>0.36</b>	0.54	0.18	0.078	<b>J</b>
179601-23-1	m,p-Xylenes	<b>0.88</b>	1.0	0.35	0.15	<b>J</b>
75-25-2	Bromoform	0.14	0.23	0.14	0.048	<b>U</b>
100-42-5	Styrene	0.34	0.55	0.34	0.091	<b>U</b>
95-47-6	o-Xylene	<b>0.24</b>	0.55	0.18	0.080	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.071	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.081</b>	0.48	0.16	0.068	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.19	0.61	0.19	0.079	<b>U</b>
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	<b>U</b>
1330-20-7	Xylenes, Total	<b>1.1</b>	1.0	0.35	0.15	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00820

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.92 Final Pressure (psig): 5.53

Container Dilution Factor: 1.72

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.72	1.3	0.80	0.32	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.78	0.45	0.28	0.076	
74-87-3	Chloromethane	1.4	1.1	0.67	0.18	
75-01-4	Vinyl Chloride	0.37	0.89	0.29	0.096	J
106-99-0	1,3-Butadiene	0.62	1.0	0.62	0.17	U
75-00-3	Chloroethane	0.48	0.85	0.52	0.11	J
64-17-5	Ethanol	2.0	12	1.9	0.84	J
67-64-1	Acetone	37	9.4	4.9	2.2	
75-69-4	Trichlorofluoromethane	0.11	0.39	0.24	0.062	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	U
75-09-2	Methylene Chloride	0.40	0.64	0.40	0.19	U
76-13-1	Trichlorotrifluoroethane	0.095	0.30	0.095	0.043	U
75-15-0	Carbon Disulfide	4.6	1.4	0.75	0.22	
75-34-3	1,1-Dichloroethane	0.35	0.57	0.35	0.083	U
78-93-3	2-Butanone (MEK)	28	1.5	0.47	0.16	
141-78-6	Ethyl Acetate	1.6	1.2	0.78	0.33	L
110-54-3	n-Hexane	0.67	0.63	0.39	0.13	
67-66-3	Chloroform	0.44	0.47	0.15	0.063	J
109-99-9	Tetrahydrofuran (THF)	10	1.5	0.25	0.098	
107-06-2	1,2-Dichloroethane	0.23	0.55	0.18	0.063	J
71-43-2	Benzene	4.2	0.70	0.23	0.10	
56-23-5	Carbon Tetrachloride	0.64	0.35	0.12	0.051	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-013

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00820

Initial Pressure (psig): -2.92 Final Pressure (psig): 5.53

Container Dilution Factor: 1.72

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	1.2	1.2	0.42	0.19	J
75-27-4	Bromodichloromethane	0.11	0.33	0.11	0.049	U
79-01-6	Trichloroethene	0.074	0.41	0.14	0.058	J
123-91-1	1,4-Dioxane	0.37	0.62	0.20	0.075	J
142-82-5	n-Heptane	0.24	0.55	0.34	0.089	J
108-10-1	4-Methyl-2-pentanone	0.54	1.0	0.18	0.077	J
108-88-3	Toluene	8.3	0.59	0.19	0.074	J
591-78-6	2-Hexanone	0.18	1.1	0.18	0.069	U
124-48-1	Dibromochloromethane	0.086	0.26	0.086	0.035	U
106-93-4	1,2-Dibromoethane	0.095	0.29	0.095	0.035	U
127-18-4	Tetrachloroethene	0.046	0.33	0.11	0.044	J
100-41-4	Ethylbenzene	0.35	0.51	0.17	0.074	J
179601-23-1	m,p-Xylenes	0.74	0.99	0.34	0.14	J
75-25-2	Bromoform	0.13	0.22	0.13	0.046	U
100-42-5	Styrene	0.32	0.53	0.32	0.087	U
95-47-6	o-Xylene	0.21	0.52	0.17	0.076	J
108-67-8	1,3,5-Trimethylbenzene	0.15	0.46	0.15	0.067	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.46	0.15	0.065	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.58	0.19	0.075	U
91-20-3	Naphthalene	0.25	0.43	0.25	0.11	U
1330-20-7	Xylenes, Total	0.94	0.99	0.34	0.14	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE12-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00123

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.77 Final Pressure (psig): 5.16

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.45	1.4	0.85	0.34	J
75-71-8	Dichlorodifluoromethane (CFC 12)	26	0.48	0.29	0.080	
74-87-3	Chloromethane	0.71	1.1	0.71	0.19	U
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	U
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	0.55	0.90	0.55	0.11	U
64-17-5	Ethanol	2.1	13	2.0	0.89	J
67-64-1	Acetone	12	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	3.5	0.41	0.26	0.066	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	8.2	0.31	0.10	0.045	
75-15-0	Carbon Disulfide	4.9	1.5	0.79	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	2.0	1.5	0.49	0.17	
141-78-6	Ethyl Acetate	0.82	1.3	0.82	0.35	U, L
110-54-3	n-Hexane	0.15	0.67	0.41	0.14	J
67-66-3	Chloroform	0.15	0.49	0.16	0.066	J
109-99-9	Tetrahydrofuran (THF)	0.31	1.5	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	U
71-43-2	Benzene	0.29	0.74	0.24	0.11	J
56-23-5	Carbon Tetrachloride	5.2	0.37	0.12	0.054	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE12-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-014

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00123

Initial Pressure (psig): -3.77 Final Pressure (psig): 5.16

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	0.12	0.35	0.12	0.052	U
79-01-6	Trichloroethene	<b>5.7</b>	0.43	0.14	0.061	
123-91-1	1,4-Dioxane	0.21	0.66	0.21	0.080	U
142-82-5	n-Heptane	0.36	0.58	0.36	0.094	U
108-10-1	4-Methyl-2-pentanone	<b>0.10</b>	1.1	0.19	0.081	J
108-88-3	Toluene	<b>0.20</b>	0.63	0.21	0.079	J
591-78-6	2-Hexanone	<b>0.16</b>	1.1	0.19	0.073	J
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.037	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>2.0</b>	0.35	0.11	0.046	
100-41-4	Ethylbenzene	<b>0.38</b>	0.54	0.18	0.079	J
179601-23-1	m,p-Xylenes	<b>0.35</b>	1.0	0.36	0.15	J
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.56	0.34	0.092	U
95-47-6	o-Xylene	0.18	0.56	0.18	0.081	U
108-67-8	1,3,5-Trimethylbenzene	<b>0.085</b>	0.49	0.16	0.071	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.18</b>	0.48	0.16	0.069	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.080	U
91-20-3	Naphthalene	<b>0.19</b>	0.45	0.27	0.11	J
1330-20-7	Xylenes, Total	<b>0.35</b>	1.0	0.36	0.15	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV07-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00439

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.00020 Liter(s)

0.000050 Liter(s)

Initial Pressure (psig): -2.48 Final Pressure (psig): 7.96

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1,400	2,800	1,700	700	J
75-71-8	Dichlorodifluoromethane (CFC 12)	600	970	600	160	U
74-87-3	Chloromethane	1,400	2,300	1,400	390	U
75-01-4	Vinyl Chloride	620	1,900	620	210	U
106-99-0	1,3-Butadiene	1,300	2,200	1,300	370	U
75-00-3	Chloroethane	1,100	1,800	1,100	230	U
64-17-5	Ethanol	4,100	26,000	4,100	1,800	U
67-64-1	Acetone	11,000	20,000	11,000	4,700	U
75-69-4	Trichlorofluoromethane	530	840	530	130	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,400	3,800	2,400	830	U
75-09-2	Methylene Chloride	850	1,400	850	400	U
76-13-1	Trichlorotrifluoroethane	210	640	210	92	U
75-15-0	Carbon Disulfide	1,600	3,000	1,600	480	U
75-34-3	1,1-Dichloroethane	750	1,200	750	180	U
78-93-3	2-Butanone (MEK)	1,000	3,100	1,000	350	U
141-78-6	Ethyl Acetate	1,700	2,600	1,700	720	U, L
110-54-3	n-Hexane	300,000	5,500	3,400	1,200	D
67-66-3	Chloroform	320	1,000	320	130	U
109-99-9	Tetrahydrofuran (THF)	530	3,100	530	210	U
107-06-2	1,2-Dichloroethane	390	1,200	390	130	U
71-43-2	Benzene	17,000	1,500	490	220	
56-23-5	Carbon Tetrachloride	250	750	250	110	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV07-050-204

ALS Project ID: P2005897

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005897-015

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

0.000050 Liter(s)

Container ID: 1SC00439

Initial Pressure (psig): -2.48 Final Pressure (psig): 7.96

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>300,000</b>	2,700	910	400	
75-27-4	Bromodichloromethane	230	720	230	110	U
79-01-6	Trichloroethene	290	880	290	120	U
123-91-1	1,4-Dioxane	440	1,300	440	160	U
142-82-5	n-Heptane	<b>230,000</b>	4,700	2,900	770	D
108-10-1	4-Methyl-2-pentanone	380	2,300	380	160	U
108-88-3	Toluene	<b>26,000</b>	1,300	420	160	
591-78-6	2-Hexanone	380	2,300	380	150	U
124-48-1	Dibromochloromethane	180	560	180	76	U
106-93-4	1,2-Dibromoethane	200	630	200	75	U
127-18-4	Tetrachloroethene	230	710	230	94	U
100-41-4	Ethylbenzene	<b>1,300</b>	1,100	360	160	
179601-23-1	m,p-Xylenes	<b>2,500</b>	2,100	720	300	
75-25-2	Bromoform	290	470	290	98	U
100-42-5	Styrene	700	1,100	700	190	U
95-47-6	o-Xylene	<b>440</b>	1,100	360	160	J
108-67-8	1,3,5-Trimethylbenzene	320	1,000	320	140	U
95-63-6	1,2,4-Trimethylbenzene	320	980	320	140	U
120-82-1	1,2,4-Trichlorobenzene	400	1,200	400	160	U
91-20-3	Naphthalene	550	920	550	230	U
1330-20-7	Xylenes, Total	<b>2,900</b>	2,100	720	300	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV07-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00740

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -5.26 Final Pressure (psig): 5.31

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2,000	3,200	2,000	800	U
75-71-8	Dichlorodifluoromethane (CFC 12)	690	1,100	690	190	U
74-87-3	Chloromethane	1,600	2,700	1,600	440	U
75-01-4	Vinyl Chloride	710	2,200	710	240	U
106-99-0	1,3-Butadiene	1,500	2,500	1,500	420	U
75-00-3	Chloroethane	1,300	2,100	1,300	270	U
64-17-5	Ethanol	4,700	30,000	4,700	2,100	U
67-64-1	Acetone	12,000	23,000	12,000	5,400	U
75-69-4	Trichlorofluoromethane	600	960	600	150	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,700	4,300	2,700	950	U
75-09-2	Methylene Chloride	980	1,600	980	460	U
76-13-1	Trichlorotrifluoroethane	240	730	240	110	U
75-15-0	Carbon Disulfide	1,800	3,400	1,800	540	U
75-34-3	1,1-Dichloroethane	860	1,400	860	200	U
78-93-3	2-Butanone (MEK)	1,200	3,600	1,200	400	U
141-78-6	Ethyl Acetate	1,900	2,900	1,900	820	U, L
110-54-3	n-Hexane	<b>160,000</b>	1,600	960	330	
67-66-3	Chloroform	370	1,200	370	150	U
109-99-9	Tetrahydrofuran (THF)	610	3,600	610	240	U
107-06-2	1,2-Dichloroethane	450	1,400	450	150	U
71-43-2	Benzene	<b>11,000</b>	1,700	560	260	
56-23-5	Carbon Tetrachloride	290	860	290	120	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV07-100-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-016

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS00740

Initial Pressure (psig): -5.26 Final Pressure (psig): 5.31

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	220,000	3,100	1,000	460	
75-27-4	Bromodichloromethane	270	820	270	120	U
79-01-6	Trichloroethene	340	1,000	340	140	U
123-91-1	1,4-Dioxane	500	1,500	500	190	U
142-82-5	n-Heptane	94,000	1,300	830	220	
108-10-1	4-Methyl-2-pentanone	440	2,600	440	190	U
108-88-3	Toluene	12,000	1,500	480	180	
591-78-6	2-Hexanone	440	2,600	440	170	U
124-48-1	Dibromochloromethane	210	650	210	87	U
106-93-4	1,2-Dibromoethane	230	720	230	86	U
127-18-4	Tetrachloroethene	270	810	270	110	U
100-41-4	Ethylbenzene	210	1,300	420	180	J
179601-23-1	m,p-Xylenes	1,100	2,400	830	340	J
75-25-2	Bromoform	330	540	330	110	U
100-42-5	Styrene	800	1,300	800	210	U
95-47-6	o-Xylene	360	1,300	420	190	J
108-67-8	1,3,5-Trimethylbenzene	370	1,100	370	170	U
95-63-6	1,2,4-Trimethylbenzene	370	1,100	370	160	U
120-82-1	1,2,4-Trichlorobenzene	460	1,400	460	190	U
91-20-3	Naphthalene	630	1,100	630	260	U
1330-20-7	Xylenes, Total	1,400	2,400	830	340	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV07-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00025

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.64 Final Pressure (psig): 6.61

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.0	1.6	0.99	0.40	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.72	0.56	0.34	0.093	
74-87-3	Chloromethane	0.82	1.3	0.82	0.22	U
75-01-4	Vinyl Chloride	0.35	1.1	0.35	0.12	U
106-99-0	1,3-Butadiene	0.77	1.2	0.77	0.21	U
75-00-3	Chloroethane	0.64	1.0	0.64	0.13	U
64-17-5	Ethanol	2.5	15	2.3	1.0	J
67-64-1	Acetone	8.3	12	6.0	2.7	J
75-69-4	Trichlorofluoromethane	0.76	0.48	0.30	0.076	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.71	2.2	1.4	0.47	J
75-09-2	Methylene Chloride	0.49	0.79	0.49	0.23	U
76-13-1	Trichlorotrifluoroethane	3.4	0.37	0.12	0.053	
75-15-0	Carbon Disulfide	0.92	1.7	0.92	0.27	U
75-34-3	1,1-Dichloroethane	0.43	0.71	0.43	0.10	U
78-93-3	2-Butanone (MEK)	0.58	1.8	0.58	0.20	U
141-78-6	Ethyl Acetate	0.96	1.5	0.96	0.41	U, L
110-54-3	n-Hexane	15	0.78	0.48	0.17	
67-66-3	Chloroform	0.18	0.58	0.18	0.077	U
109-99-9	Tetrahydrofuran (THF)	0.72	1.8	0.31	0.12	J
107-06-2	1,2-Dichloroethane	0.22	0.68	0.22	0.077	U
71-43-2	Benzene	3.4	0.86	0.28	0.13	
56-23-5	Carbon Tetrachloride	1.0	0.43	0.14	0.062	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV07-150-204

ALS Project ID: P2005897

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005897-017

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00025

Initial Pressure (psig): -4.64 Final Pressure (psig): 6.61

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	17	1.5	0.52	0.23	
75-27-4	Bromodichloromethane	0.13	0.41	0.13	0.061	U
79-01-6	Trichloroethene	0.17	0.50	0.17	0.071	U
123-91-1	1,4-Dioxane	0.25	0.77	0.25	0.093	U
142-82-5	n-Heptane	28	0.67	0.41	0.11	
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.094	U
108-88-3	Toluene	11	0.73	0.24	0.091	
591-78-6	2-Hexanone	0.22	1.3	0.22	0.085	U
124-48-1	Dibromochloromethane	0.11	0.32	0.11	0.044	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	U
127-18-4	Tetrachloroethene	0.18	0.41	0.13	0.054	J
100-41-4	Ethylbenzene	0.56	0.63	0.21	0.092	J
179601-23-1	m,p-Xylenes	2.0	1.2	0.42	0.17	
75-25-2	Bromoform	0.16	0.27	0.16	0.056	U
100-42-5	Styrene	0.40	0.65	0.40	0.11	U
95-47-6	o-Xylene	0.56	0.65	0.21	0.094	J
108-67-8	1,3,5-Trimethylbenzene	0.13	0.57	0.18	0.083	J
95-63-6	1,2,4-Trimethylbenzene	0.19	0.56	0.18	0.080	J
120-82-1	1,2,4-Trichlorobenzene	0.23	0.71	0.23	0.093	U
91-20-3	Naphthalene	0.21	0.53	0.31	0.13	J
1330-20-7	Xylenes, Total	2.6	1.2	0.42	0.17	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00260

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.37 Final Pressure (psig): 6.11

Container Dilution Factor: 1.69

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.93	1.3	0.79	0.32	J
75-71-8	Dichlorodifluoromethane (CFC 12)	9.3	0.44	0.27	0.074	
74-87-3	Chloromethane	0.24	1.1	0.65	0.18	J
75-01-4	Vinyl Chloride	0.28	0.88	0.28	0.094	U
106-99-0	1,3-Butadiene	0.61	0.99	0.61	0.17	U
75-00-3	Chloroethane	0.51	0.83	0.51	0.11	U
64-17-5	Ethanol	14	12	1.9	0.83	
67-64-1	Acetone	9.6	9.3	4.8	2.1	
75-69-4	Trichlorofluoromethane	1.4	0.38	0.24	0.061	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.86	1.7	1.1	0.38	J
75-09-2	Methylene Chloride	0.44	0.63	0.39	0.18	J
76-13-1	Trichlorotrifluoroethane	19	0.29	0.094	0.042	
75-15-0	Carbon Disulfide	1.2	1.4	0.73	0.22	J
75-34-3	1,1-Dichloroethane	0.34	0.56	0.34	0.081	U
78-93-3	2-Butanone (MEK)	2.4	1.4	0.46	0.16	
141-78-6	Ethyl Acetate	50	1.2	0.76	0.33	L
110-54-3	n-Hexane	0.23	0.62	0.38	0.13	J
67-66-3	Chloroform	0.54	0.46	0.15	0.061	
109-99-9	Tetrahydrofuran (THF)	94	1.4	0.24	0.096	
107-06-2	1,2-Dichloroethane	0.18	0.54	0.18	0.062	U
71-43-2	Benzene	0.56	0.69	0.22	0.10	J
56-23-5	Carbon Tetrachloride	43	0.34	0.11	0.050	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00260

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.37 Final Pressure (psig): 6.11

Container Dilution Factor: 1.69

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	7.3	1.2	0.42	0.18	
75-27-4	Bromodichloromethane	0.11	0.33	0.11	0.049	U
79-01-6	Trichloroethene	36	0.40	0.13	0.057	
123-91-1	1,4-Dioxane	0.20	0.61	0.20	0.074	U
142-82-5	n-Heptane	0.41	0.54	0.33	0.088	J
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.18	0.075	J
108-88-3	Toluene	2.4	0.58	0.19	0.073	
591-78-6	2-Hexanone	0.18	1.0	0.18	0.068	U
124-48-1	Dibromochloromethane	0.084	0.26	0.084	0.035	U
106-93-4	1,2-Dibromoethane	0.093	0.29	0.093	0.034	U
127-18-4	Tetrachloroethene	12	0.32	0.11	0.043	
100-41-4	Ethylbenzene	0.20	0.51	0.17	0.073	J
179601-23-1	m,p-Xylenes	0.49	0.97	0.33	0.14	J
75-25-2	Bromoform	0.13	0.22	0.13	0.045	U
100-42-5	Styrene	0.12	0.52	0.32	0.085	J
95-47-6	o-Xylene	0.20	0.52	0.17	0.075	J
108-67-8	1,3,5-Trimethylbenzene	0.095	0.46	0.15	0.066	J
95-63-6	1,2,4-Trimethylbenzene	0.17	0.45	0.15	0.064	J
120-82-1	1,2,4-Trichlorobenzene	0.18	0.57	0.18	0.074	U
91-20-3	Naphthalene	0.25	0.42	0.25	0.10	U
1330-20-7	Xylenes, Total	0.69	0.97	0.33	0.14	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00206

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.30 Final Pressure (psig): 6.41

Container Dilution Factor: 2.03

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.63	1.5	0.94	0.38	J
75-71-8	Dichlorodifluoromethane (CFC 12)	11	0.53	0.33	0.089	
74-87-3	Chloromethane	0.25	1.3	0.79	0.21	J
75-01-4	Vinyl Chloride	0.34	1.1	0.34	0.11	U
106-99-0	1,3-Butadiene	0.73	1.2	0.73	0.20	U
75-00-3	Chloroethane	0.62	1.0	0.62	0.13	U
64-17-5	Ethanol	2.9	14	2.2	1.0	J
67-64-1	Acetone	11	11	5.8	2.6	
75-69-4	Trichlorofluoromethane	1.6	0.46	0.29	0.073	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.45	U
75-09-2	Methylene Chloride	0.47	0.76	0.47	0.22	U
76-13-1	Trichlorotrifluoroethane	20	0.35	0.11	0.050	
75-15-0	Carbon Disulfide	2.2	1.6	0.88	0.26	
75-34-3	1,1-Dichloroethane	0.41	0.68	0.41	0.098	U
78-93-3	2-Butanone (MEK)	2.3	1.7	0.55	0.19	
141-78-6	Ethyl Acetate	0.75	1.4	0.92	0.39	J, L
110-54-3	n-Hexane	0.46	0.75	0.46	0.16	U
67-66-3	Chloroform	0.65	0.55	0.18	0.074	
109-99-9	Tetrahydrofuran (THF)	61	1.7	0.29	0.12	
107-06-2	1,2-Dichloroethane	0.21	0.65	0.21	0.074	U
71-43-2	Benzene	0.24	0.83	0.27	0.12	J
56-23-5	Carbon Tetrachloride	51	0.41	0.14	0.060	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV14-250-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-019

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00206

Initial Pressure (psig): -4.30 Final Pressure (psig): 6.41

Container Dilution Factor: 2.03

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	1.1	1.5	0.50	0.22	J
75-27-4	Bromodichloromethane	0.13	0.39	0.13	0.058	U
79-01-6	Trichloroethene	48	0.48	0.16	0.068	
123-91-1	1,4-Dioxane	0.24	0.73	0.24	0.089	U
142-82-5	n-Heptane	0.40	0.64	0.40	0.11	U
108-10-1	4-Methyl-2-pentanone	0.21	1.2	0.21	0.090	U
108-88-3	Toluene	0.38	0.70	0.23	0.088	J
591-78-6	2-Hexanone	0.21	1.2	0.21	0.082	U
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	U
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.041	U
127-18-4	Tetrachloroethene	16	0.39	0.13	0.052	
100-41-4	Ethylbenzene	0.20	0.61	0.20	0.088	U
179601-23-1	m,p-Xylenes	0.19	1.2	0.40	0.16	J
75-25-2	Bromoform	0.16	0.26	0.16	0.054	U
100-42-5	Styrene	0.38	0.62	0.38	0.10	U
95-47-6	o-Xylene	0.090	0.62	0.20	0.090	J
108-67-8	1,3,5-Trimethylbenzene	0.087	0.55	0.18	0.080	J
95-63-6	1,2,4-Trimethylbenzene	0.13	0.54	0.18	0.076	J
120-82-1	1,2,4-Trichlorobenzene	0.22	0.68	0.22	0.089	U
91-20-3	Naphthalene	0.30	0.50	0.30	0.13	U
1330-20-7	Xylenes, Total	0.28	1.2	0.40	0.16	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01047

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 5.14

Container Dilution Factor: 1.65

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.70	1.2	0.77	0.31	J
75-71-8	Dichlorodifluoromethane (CFC 12)	130	4.3	2.7	0.73	D
74-87-3	Chloromethane	0.67	1.0	0.64	0.17	J
75-01-4	Vinyl Chloride	0.46	0.86	0.27	0.092	J
106-99-0	1,3-Butadiene	0.60	0.97	0.60	0.16	U
75-00-3	Chloroethane	0.50	0.81	0.50	0.10	U
64-17-5	Ethanol	2.1	12	1.8	0.81	J
67-64-1	Acetone	220	9.0	4.7	2.1	
75-69-4	Trichlorofluoromethane	9.9	0.37	0.23	0.059	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.46	1.7	1.1	0.37	J
75-09-2	Methylene Chloride	0.38	0.62	0.38	0.18	U
76-13-1	Trichlorotrifluoroethane	5.6	0.29	0.092	0.041	
75-15-0	Carbon Disulfide	4.7	1.3	0.72	0.21	
75-34-3	1,1-Dichloroethane	0.36	0.55	0.34	0.080	J
78-93-3	2-Butanone (MEK)	110	1.4	0.45	0.15	
141-78-6	Ethyl Acetate	0.74	1.1	0.74	0.32	U, L
110-54-3	n-Hexane	0.37	0.61	0.37	0.13	U
67-66-3	Chloroform	0.66	0.45	0.14	0.060	
109-99-9	Tetrahydrofuran (THF)	140	1.4	0.24	0.094	
107-06-2	1,2-Dichloroethane	0.17	0.53	0.17	0.060	U
71-43-2	Benzene	1.7	0.67	0.22	0.099	
56-23-5	Carbon Tetrachloride	9.6	0.33	0.11	0.049	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-350-204

ALS Project ID: P2005897

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005897-020

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao/Topacio De Leon

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SC01047

Initial Pressure (psig): -2.65 Final Pressure (psig): 5.14

Container Dilution Factor: 1.65

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.41	1.2	0.41	0.18	U
75-27-4	Bromodichloromethane	0.10	0.32	0.10	0.047	U
79-01-6	Trichloroethene	<b>34</b>	0.39	0.13	0.055	
123-91-1	1,4-Dioxane	0.19	0.60	0.19	0.072	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.086	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.074	U
108-88-3	Toluene	<b>2.7</b>	0.57	0.19	0.071	
591-78-6	2-Hexanone	<b>0.13</b>	1.0	0.17	0.066	J
124-48-1	Dibromochloromethane	0.082	0.25	0.082	0.034	U
106-93-4	1,2-Dibromoethane	0.091	0.28	0.091	0.033	U
127-18-4	Tetrachloroethene	<b>6.4</b>	0.32	0.10	0.042	
100-41-4	Ethylbenzene	<b>0.14</b>	0.49	0.16	0.071	J
179601-23-1	m,p-Xylenes	<b>0.40</b>	0.95	0.32	0.13	J
75-25-2	Bromoform	0.13	0.21	0.13	0.044	U
100-42-5	Styrene	0.31	0.50	0.31	0.083	U
95-47-6	o-Xylene	<b>0.20</b>	0.50	0.16	0.073	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.079</b>	0.44	0.14	0.065	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.099</b>	0.44	0.14	0.062	J
120-82-1	1,2,4-Trichlorobenzene	0.18	0.56	0.18	0.072	U
91-20-3	Naphthalene	0.24	0.41	0.24	0.10	U
1330-20-7	Xylenes, Total	<b>0.60</b>	0.95	0.32	0.13	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-021

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00045

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.19 Final Pressure (psig): 6.81

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.50</b>	1.5	0.95	0.39	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.5</b>	0.54	0.33	0.090	
74-87-3	Chloromethane	0.79	1.3	0.79	0.21	<b>U</b>
75-01-4	Vinyl Chloride	<b>0.55</b>	1.1	0.34	0.11	<b>J</b>
106-99-0	1,3-Butadiene	0.74	1.2	0.74	0.20	<b>U</b>
75-00-3	Chloroethane	0.62	1.0	0.62	0.13	<b>U</b>
64-17-5	Ethanol	<b>2.6</b>	14	2.3	1.0	<b>J</b>
67-64-1	Acetone	<b>12</b>	11	5.8	2.6	
75-69-4	Trichlorofluoromethane	<b>0.11</b>	0.47	0.29	0.074	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.46	<b>U</b>
75-09-2	Methylene Chloride	0.47	0.77	0.47	0.22	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.076</b>	0.35	0.11	0.051	<b>J</b>
75-15-0	Carbon Disulfide	<b>1.4</b>	1.6	0.89	0.26	<b>J</b>
75-34-3	1,1-Dichloroethane	0.42	0.68	0.42	0.099	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.6</b>	1.7	0.56	0.19	
141-78-6	Ethyl Acetate	0.92	1.4	0.92	0.40	<b>U, L</b>
110-54-3	n-Hexane	0.47	0.76	0.47	0.16	<b>U</b>
67-66-3	Chloroform	0.18	0.56	0.18	0.075	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>6.5</b>	1.7	0.30	0.12	
107-06-2	1,2-Dichloroethane	0.22	0.66	0.22	0.075	<b>U</b>
71-43-2	Benzene	<b>0.41</b>	0.83	0.27	0.12	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.39</b>	0.42	0.14	0.060	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-450-204

ALS Project ID: P2005897

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005897-021

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00045

Initial Pressure (psig): -4.19 Final Pressure (psig): 6.81

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.51	1.5	0.51	0.22	U
75-27-4	Bromodichloromethane	0.13	0.40	0.13	0.059	U
79-01-6	Trichloroethene	<b>0.29</b>	0.49	0.16	0.069	J
123-91-1	1,4-Dioxane	0.24	0.74	0.24	0.090	U
142-82-5	n-Heptane	0.40	0.65	0.40	0.11	U
108-10-1	4-Methyl-2-pentanone	0.21	1.3	0.21	0.091	U
108-88-3	Toluene	<b>2.0</b>	0.71	0.23	0.088	U
591-78-6	2-Hexanone	0.21	1.3	0.21	0.083	U
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	U
106-93-4	1,2-Dibromoethane	0.11	0.35	0.11	0.041	U
127-18-4	Tetrachloroethene	<b>0.41</b>	0.39	0.13	0.052	U
100-41-4	Ethylbenzene	<b>0.18</b>	0.61	0.20	0.089	J
179601-23-1	m,p-Xylenes	<b>0.71</b>	1.2	0.40	0.17	J
75-25-2	Bromoform	0.16	0.26	0.16	0.055	U
100-42-5	Styrene	0.39	0.63	0.39	0.10	U
95-47-6	o-Xylene	<b>0.34</b>	0.63	0.20	0.091	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.081</b>	0.55	0.18	0.080	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.15</b>	0.54	0.18	0.077	J
120-82-1	1,2,4-Trichlorobenzene	0.22	0.69	0.22	0.090	U
91-20-3	Naphthalene	0.30	0.51	0.30	0.13	U
1330-20-7	Xylenes, Total	<b>1.0</b>	1.2	0.40	0.17	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-022

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01104

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.44 Final Pressure (psig): 6.31

Container Dilution Factor: 1.71

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.80	1.3	0.80	0.32	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.45	0.28	0.075	
74-87-3	Chloromethane	0.21	1.1	0.66	0.18	J
75-01-4	Vinyl Chloride	0.84	0.89	0.28	0.095	J
106-99-0	1,3-Butadiene	0.62	1.0	0.62	0.17	U
75-00-3	Chloroethane	0.52	0.84	0.52	0.11	U
64-17-5	Ethanol	1.1	12	1.9	0.84	J
67-64-1	Acetone	7.1	9.4	4.9	2.2	J
75-69-4	Trichlorofluoromethane	0.10	0.39	0.24	0.062	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.7	1.1	0.38	U
75-09-2	Methylene Chloride	0.39	0.64	0.39	0.18	U
76-13-1	Trichlorotrifluoroethane	0.071	0.30	0.095	0.042	J
75-15-0	Carbon Disulfide	2.2	1.4	0.74	0.22	
75-34-3	1,1-Dichloroethane	0.35	0.57	0.35	0.082	U
78-93-3	2-Butanone (MEK)	1.8	1.5	0.46	0.16	
141-78-6	Ethyl Acetate	0.77	1.2	0.77	0.33	U, L
110-54-3	n-Hexane	0.18	0.63	0.39	0.13	J
67-66-3	Chloroform	0.15	0.46	0.15	0.062	U
109-99-9	Tetrahydrofuran (THF)	9.7	1.5	0.25	0.097	
107-06-2	1,2-Dichloroethane	0.18	0.55	0.18	0.062	U
71-43-2	Benzene	0.47	0.70	0.23	0.10	J
56-23-5	Carbon Tetrachloride	0.38	0.35	0.12	0.050	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-022

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01104

Initial Pressure (psig): -2.44 Final Pressure (psig): 6.31

Container Dilution Factor: 1.71

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.42	1.2	0.42	0.19	U
75-27-4	Bromodichloromethane	0.11	0.33	0.11	0.049	U
79-01-6	Trichloroethene	<b>0.30</b>	0.41	0.14	0.057	J
123-91-1	1,4-Dioxane	0.20	0.62	0.20	0.075	U
142-82-5	n-Heptane	<b>0.14</b>	0.54	0.33	0.089	J
108-10-1	4-Methyl-2-pentanone	0.18	1.0	0.18	0.076	U
108-88-3	Toluene	<b>1.1</b>	0.59	0.19	0.074	J
591-78-6	2-Hexanone	0.18	1.0	0.18	0.069	U
124-48-1	Dibromochloromethane	0.085	0.26	0.085	0.035	U
106-93-4	1,2-Dibromoethane	0.095	0.29	0.095	0.035	U
127-18-4	Tetrachloroethene	<b>0.42</b>	0.33	0.11	0.044	J
100-41-4	Ethylbenzene	<b>0.096</b>	0.51	0.17	0.074	J
179601-23-1	m,p-Xylenes	<b>0.34</b>	0.98	0.33	0.14	J
75-25-2	Bromoform	0.13	0.22	0.13	0.045	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	<b>0.12</b>	0.52	0.17	0.076	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.074</b>	0.46	0.15	0.067	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.13</b>	0.45	0.15	0.064	J
120-82-1	1,2,4-Trichlorobenzene	0.18	0.58	0.18	0.075	U
91-20-3	Naphthalene	0.25	0.42	0.25	0.11	U
1330-20-7	Xylenes, Total	<b>0.46</b>	0.98	0.33	0.14	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVTB204-02**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-023

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00545

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.47	0.76	0.47	0.19	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.16	0.26	0.16	0.044	U
74-87-3	Chloromethane	0.39	0.63	0.39	0.10	U
75-01-4	Vinyl Chloride	<b>0.059</b>	0.52	0.17	0.056	J
106-99-0	1,3-Butadiene	0.36	0.59	0.36	0.099	U
75-00-3	Chloroethane	0.30	0.49	0.30	0.063	U
64-17-5	Ethanol	<b>0.91</b>	7.0	1.1	0.49	J
67-64-1	Acetone	2.8	5.5	2.8	1.3	U
75-69-4	Trichlorofluoromethane	0.14	0.23	0.14	0.036	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.64	1.0	0.64	0.22	U
75-09-2	Methylene Chloride	0.23	0.37	0.23	0.11	U
76-13-1	Trichlorotrifluoroethane	0.055	0.17	0.055	0.025	U
75-15-0	Carbon Disulfide	0.43	0.80	0.43	0.13	U
75-34-3	1,1-Dichloroethane	0.20	0.33	0.20	0.048	U
78-93-3	2-Butanone (MEK)	<b>0.19</b>	0.85	0.27	0.093	J
141-78-6	Ethyl Acetate	0.45	0.69	0.45	0.19	U, L
110-54-3	n-Hexane	0.23	0.37	0.23	0.078	U
67-66-3	Chloroform	0.087	0.27	0.087	0.036	U
109-99-9	Tetrahydrofuran (THF)	0.14	0.85	0.14	0.057	U
107-06-2	1,2-Dichloroethane	0.11	0.32	0.11	0.036	U
71-43-2	Benzene	0.13	0.41	0.13	0.060	U
56-23-5	Carbon Tetrachloride	0.068	0.20	0.068	0.029	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVTB204-02**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-023

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00545

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.25	0.73	0.25	0.11	U
75-27-4	Bromodichloromethane	0.063	0.19	0.063	0.029	U
79-01-6	Trichloroethene	0.079	0.24	0.079	0.034	U
123-91-1	1,4-Dioxane	0.12	0.36	0.12	0.044	U
142-82-5	n-Heptane	0.20	0.32	0.20	0.052	U
108-10-1	4-Methyl-2-pentanone	0.10	0.61	0.10	0.045	U
108-88-3	Toluene	0.11	0.35	0.11	0.043	U
591-78-6	2-Hexanone	0.10	0.61	0.10	0.040	U
124-48-1	Dibromochloromethane	0.050	0.15	0.050	0.021	U
106-93-4	1,2-Dibromoethane	0.055	0.17	0.055	0.020	U
127-18-4	Tetrachloroethene	0.063	0.19	0.063	0.025	U
100-41-4	Ethylbenzene	0.098	0.30	0.098	0.043	U
179601-23-1	m,p-Xylenes	0.20	0.58	0.20	0.081	U
75-25-2	Bromoform	0.077	0.13	0.077	0.027	U
100-42-5	Styrene	<b>0.062</b>	0.31	0.19	0.051	<b>J</b>
95-47-6	o-Xylene	0.098	0.31	0.098	0.044	U
108-67-8	1,3,5-Trimethylbenzene	0.086	0.27	0.086	0.039	U
95-63-6	1,2,4-Trimethylbenzene	0.086	0.26	0.086	0.038	U
120-82-1	1,2,4-Trichlorobenzene	0.11	0.34	0.11	0.044	U
91-20-3	Naphthalene	0.15	0.25	0.15	0.062	U
1330-20-7	Xylenes, Total	0.20	0.58	0.20	0.081	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U, L
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201104-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U, L
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201104-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date(s) Collected: 10/12 - 10/13/20

Analyst: Simon Cao/Topacio De Leon

Date(s) Received: 10/19/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 11/3 - 11/5/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201103-MB	100	102	107	70-130	
Method Blank	P201104-MB	101	102	108	70-130	
Lab Control Sample	P201103-LCS	101	98	105	70-130	
Lab Control Sample	P201104-LCS	102	98	103	70-130	
Duplicate Lab Control Sample	P201103-DLCS	102	98	104	70-130	
Duplicate Lab Control Sample	P201104-DLCS	102	98	104	70-130	
SV139-050-204	P2005897-001	102	102	106	70-130	
SV139-050-604	P2005897-002	100	103	109	70-130	
SV139-150-204	P2005897-003	101	102	106	70-130	
SV139-250-204	P2005897-004	101	100	106	70-130	
SV139-350-204	P2005897-005	101	102	106	70-130	
SV139-450-204	P2005897-006	101	103	106	70-130	
SV140-025-204	P2005897-007	102	103	106	70-130	
SV140-050-204	P2005897-008	101	104	106	70-130	
SV140-150-204	P2005897-009	101	102	105	70-130	
SV140-250-204	P2005897-010	102	101	107	70-130	
SV140-350-204	P2005897-011	103	102	107	70-130	
SV140-450-604	P2005897-012	101	101	107	70-130	
SV140-450-204	P2005897-013	99	102	108	70-130	
SVE12-410-204	P2005897-014	101	101	108	70-130	
SV07-050-204	P2005897-015	102	98	105	70-130	
SV07-100-204	P2005897-016	102	100	104	70-130	
SV07-150-204	P2005897-017	101	98	105	70-130	
SV14-150-204	P2005897-018	103	101	107	70-130	
SV14-250-204	P2005897-019	103	100	107	70-130	
SV14-350-204	P2005897-020	103	99	108	70-130	
SV14-450-204	P2005897-021	102	100	108	70-130	
SV14-450-604	P2005897-022	103	101	108	70-130	
SVTB204-02	P2005897-023	103	100	107	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier	
		LCS / DLCS ppbV	LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits	RPD Limit		
115-07-1	Propene	122	107	108		<b>88</b>	<b>89</b>	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	42.0	42.7		<b>99</b>	<b>100</b>	59-128	1	25	
74-87-3	Chloromethane	99.8	105	101		<b>105</b>	<b>101</b>	59-132	4	25	
75-01-4	Vinyl Chloride	81.4	83.7	83.3		<b>103</b>	<b>102</b>	64-127	1	25	
106-99-0	1,3-Butadiene	95.0	108	107		<b>114</b>	<b>113</b>	66-134	0.9	25	
75-00-3	Chloroethane	77.3	74.5	73.6		<b>96</b>	<b>95</b>	63-127	1	25	
64-17-5	Ethanol	530	471	471		<b>89</b>	<b>89</b>	59-125	0	25	
67-64-1	Acetone	435	386	384		<b>89</b>	<b>88</b>	58-128	1	25	
75-69-4	Trichlorofluoromethane	36.3	36.7	37.2		<b>101</b>	<b>102</b>	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	166	163		<b>100</b>	<b>98</b>	52-125	2	25	
75-09-2	Methylene Chloride	59.9	58.8	58.9		<b>98</b>	<b>98</b>	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	27.9	28.1	28.4		<b>101</b>	<b>102</b>	66-126	1	25	
75-15-0	Carbon Disulfide	137	137	137		<b>100</b>	<b>100</b>	57-134	0	25	
75-34-3	1,1-Dichloroethane	52.4	50.3	50.0		<b>96</b>	<b>95</b>	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	145	144		<b>104</b>	<b>103</b>	67-130	1	25	
141-78-6	Ethyl Acetate	117	154	153		<b>132</b>	<b>131</b>	65-128	0.8	25	<b>L</b>
110-54-3	n-Hexane	60.2	54.6	53.8		<b>91</b>	<b>89</b>	63-120	2	25	
67-66-3	Chloroform	43.8	42.6	42.7		<b>97</b>	<b>97</b>	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	136	133	133		<b>98</b>	<b>98</b>	64-123	0	25	
107-06-2	1,2-Dichloroethane	51.4	52.5	52.8		<b>102</b>	<b>103</b>	65-128	1	25	
71-43-2	Benzene	63.9	62.8	62.3		<b>98</b>	<b>97</b>	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	33.2	33.2		<b>99</b>	<b>99</b>	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	118	117	<b>98</b>	<b>97</b>	70-117	1	25	
75-27-4	Bromodichloromethane	31.4	32.1	32.1	<b>102</b>	<b>102</b>	72-128	0	25	
79-01-6	Trichloroethene	38.3	37.9	37.7	<b>99</b>	<b>98</b>	71-123	1	25	
123-91-1	1,4-Dioxane	57.7	60.7	60.1	<b>105</b>	<b>104</b>	71-122	1	25	
142-82-5	n-Heptane	51.3	49.6	49.2	<b>97</b>	<b>96</b>	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	102	108	107	<b>106</b>	<b>105</b>	67-130	0.9	25	
108-88-3	Toluene	54.7	53.4	53.1	<b>98</b>	<b>97</b>	66-119	1	25	
591-78-6	2-Hexanone	98.7	107	106	<b>108</b>	<b>107</b>	62-128	0.9	25	
124-48-1	Dibromochloromethane	24.7	26.9	26.8	<b>109</b>	<b>109</b>	70-130	0	25	
106-93-4	1,2-Dibromoethane	27.1	28.9	28.8	<b>107</b>	<b>106</b>	74-122	0.9	25	
127-18-4	Tetrachloroethene	30.4	31.1	30.8	<b>102</b>	<b>101</b>	66-124	1	25	
100-41-4	Ethylbenzene	47.4	48.2	47.9	<b>102</b>	<b>101</b>	70-124	1	25	
179601-23-1	m,p-Xylenes	94.9	96.5	96.4	<b>102</b>	<b>102</b>	61-134	0	25	
75-25-2	Bromoform	20.1	23.0	23.0	<b>114</b>	<b>114</b>	66-139	0	25	
100-42-5	Styrene	48.4	53.4	53.0	<b>110</b>	<b>110</b>	73-127	0	25	
95-47-6	o-Xylene	47.4	48.3	48.3	<b>102</b>	<b>102</b>	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	42.4	42.8	<b>101</b>	<b>102</b>	67-130	1	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	42.6	42.9	<b>103</b>	<b>103</b>	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	51.2	54.1	<b>98</b>	<b>103</b>	55-142	5	25	
91-20-3	Naphthalene	37.8	36.9	39.1	<b>98</b>	<b>103</b>	57-138	5	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201104-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
115-07-1	Propene	122	107	104	<b>88</b>	<b>85</b>	57-136	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	42.2	42.0	<b>99</b>	<b>99</b>	59-128	0	25	
74-87-3	Chloromethane	99.8	95.6	92.6	<b>96</b>	<b>93</b>	59-132	3	25	
75-01-4	Vinyl Chloride	81.4	83.7	82.6	<b>103</b>	<b>101</b>	64-127	2	25	
106-99-0	1,3-Butadiene	95.0	107	105	<b>113</b>	<b>111</b>	66-134	2	25	
75-00-3	Chloroethane	77.3	74.1	73.2	<b>96</b>	<b>95</b>	63-127	1	25	
64-17-5	Ethanol	530	470	469	<b>89</b>	<b>88</b>	59-125	1	25	
67-64-1	Acetone	435	384	379	<b>88</b>	<b>87</b>	58-128	1	25	
75-69-4	Trichlorofluoromethane	36.3	36.6	36.6	<b>101</b>	<b>101</b>	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	165	164	<b>99</b>	<b>99</b>	52-125	0	25	
75-09-2	Methylene Chloride	59.9	59.2	58.5	<b>99</b>	<b>98</b>	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	27.9	27.9	27.8	<b>100</b>	<b>100</b>	66-126	0	25	
75-15-0	Carbon Disulfide	137	136	134	<b>99</b>	<b>98</b>	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	50.2	49.8	<b>96</b>	<b>95</b>	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	145	141	<b>104</b>	<b>101</b>	67-130	3	25	
141-78-6	Ethyl Acetate	117	154	151	<b>132</b>	<b>129</b>	65-128	2	25	<b>L</b>
110-54-3	n-Hexane	60.2	54.9	54.1	<b>91</b>	<b>90</b>	63-120	1	25	
67-66-3	Chloroform	43.8	42.6	42.3	<b>97</b>	<b>97</b>	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	136	133	133	<b>98</b>	<b>98</b>	64-123	0	25	
107-06-2	1,2-Dichloroethane	51.4	53.0	53.0	<b>103</b>	<b>103</b>	65-128	0	25	
71-43-2	Benzene	63.9	62.4	62.1	<b>98</b>	<b>97</b>	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	33.1	33.0	<b>99</b>	<b>99</b>	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201104-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
110-82-7	Cyclohexane	121	118	118	<b>98</b>	<b>98</b>	70-117	0	25	
75-27-4	Bromodichloromethane	31.4	32.0	32.1	<b>102</b>	<b>102</b>	72-128	0	25	
79-01-6	Trichloroethene	38.3	37.5	37.4	<b>98</b>	<b>98</b>	71-123	0	25	
123-91-1	1,4-Dioxane	57.7	60.1	59.6	<b>104</b>	<b>103</b>	71-122	1	25	
142-82-5	n-Heptane	51.3	49.6	49.1	<b>97</b>	<b>96</b>	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	102	108	107	<b>106</b>	<b>105</b>	67-130	0.9	25	
108-88-3	Toluene	54.7	52.2	52.3	<b>95</b>	<b>96</b>	66-119	1	25	
591-78-6	2-Hexanone	98.7	106	105	<b>107</b>	<b>106</b>	62-128	0.9	25	
124-48-1	Dibromochloromethane	24.7	26.3	26.1	<b>106</b>	<b>106</b>	70-130	0	25	
106-93-4	1,2-Dibromoethane	27.1	28.4	28.3	<b>105</b>	<b>104</b>	74-122	1	25	
127-18-4	Tetrachloroethene	30.4	30.2	30.0	<b>99</b>	<b>99</b>	66-124	0	25	
100-41-4	Ethylbenzene	47.4	47.1	47.2	<b>99</b>	<b>100</b>	70-124	1	25	
179601-23-1	m,p-Xylenes	94.9	95.1	95.0	<b>100</b>	<b>100</b>	61-134	0	25	
75-25-2	Bromoform	20.1	22.3	22.5	<b>111</b>	<b>112</b>	66-139	0.9	25	
100-42-5	Styrene	48.4	52.0	52.0	<b>107</b>	<b>107</b>	73-127	0	25	
95-47-6	o-Xylene	47.4	47.6	47.5	<b>100</b>	<b>100</b>	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	42.2	42.2	<b>101</b>	<b>101</b>	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	42.3	42.4	<b>102</b>	<b>102</b>	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	53.7	54.9	<b>103</b>	<b>105</b>	55-142	2	25	
91-20-3	Naphthalene	37.8	38.7	40.2	<b>102</b>	<b>106</b>	57-138	4	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV139-050-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-001

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00903

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.99 Final Pressure (psig): 6.09

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.5	1.6	0.63	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	2.5	1.6	0.42	
74-87-3	Chloromethane	1.6	2.5	1.6	0.42	U
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.5	1.6	0.32	U
64-17-5	Ethanol	20	26	4.0	1.8	J
67-64-1	Acetone	34	25	13	5.8	
75-69-4	Trichlorofluoromethane	2.9	2.5	1.6	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	4.9	3.1	1.1	J
75-09-2	Methylene Chloride	1.1	2.5	1.6	0.73	J
76-13-1	Trichlorotrifluoroethane	31	2.6	0.82	0.37	
75-15-0	Carbon Disulfide	1.9	4.9	2.6	0.78	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	12	4.9	1.6	0.53	
141-78-6	Ethyl Acetate	4.6	4.9	3.2	1.4	J, L
110-54-3	n-Hexane	1.6	2.5	1.6	0.53	U
67-66-3	Chloroform	3.1	2.6	0.82	0.34	
109-99-9	Tetrahydrofuran (THF)	17	4.9	0.82	0.32	
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.29	U
71-43-2	Benzene	0.82	2.5	0.82	0.37	U
56-23-5	Carbon Tetrachloride	7.6	2.5	0.82	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-001

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00903

Initial Pressure (psig): -3.99 Final Pressure (psig): 6.09

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.9	1.6	0.73	U
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	0.82	2.5	0.82	0.35	U
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.31	U
142-82-5	n-Heptane	1.6	2.5	1.6	0.41	U
108-10-1	4-Methyl-2-pentanone	0.82	4.9	0.82	0.35	U
108-88-3	Toluene	1.0	2.5	0.82	0.32	J
591-78-6	2-Hexanone	2.4	4.9	0.82	0.32	J
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	0.44	2.5	0.82	0.33	J
100-41-4	Ethylbenzene	0.82	2.5	0.82	0.36	U
179601-23-1	m,p-Xylenes	1.1	4.9	1.6	0.68	J
75-25-2	Bromoform	1.6	2.6	1.6	0.53	U
100-42-5	Styrene	1.6	2.5	1.6	0.42	U
95-47-6	o-Xylene	0.44	2.6	0.82	0.37	J
108-67-8	1,3,5-Trimethylbenzene	0.37	2.6	0.82	0.37	J
95-63-6	1,2,4-Trimethylbenzene	1.9	2.5	0.82	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.63	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	U
1330-20-7	Xylenes, Total	1.5	4.9	1.6	0.68	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV139-050-604  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
ALS Sample ID: P2005897-002

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
Analyst: Simon Cao  
Sampling Media: 1.0 L Summa Canister  
Test Notes:  
Container ID: 1SC00477

Date Collected: 10/12/20  
Date Received: 10/19/20  
Date Analyzed: 11/4/20  
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.73 Final Pressure (psig): 6.26

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.3	1.4	0.57	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	2.3	1.4	0.38	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	U
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	U
64-17-5	Ethanol	10	23	3.6	1.6	J
67-64-1	Acetone	30	23	12	5.3	
75-69-4	Trichlorofluoromethane	2.9	2.2	1.4	0.35	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.4	2.8	0.96	U
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.66	U
76-13-1	Trichlorotrifluoroethane	31	2.3	0.74	0.33	
75-15-0	Carbon Disulfide	9.2	4.4	2.4	0.70	
75-34-3	1,1-Dichloroethane	1.4	2.4	1.4	0.34	U
78-93-3	2-Butanone (MEK)	5.5	4.4	1.4	0.48	
141-78-6	Ethyl Acetate	22	4.4	2.8	1.2	L
110-54-3	n-Hexane	0.78	2.3	1.4	0.48	J
67-66-3	Chloroform	2.9	2.3	0.74	0.31	
109-99-9	Tetrahydrofuran (THF)	19	4.4	0.74	0.29	
107-06-2	1,2-Dichloroethane	0.74	2.3	0.74	0.26	U
71-43-2	Benzene	0.77	2.3	0.74	0.34	J
56-23-5	Carbon Tetrachloride	15	2.2	0.74	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00477

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.73 Final Pressure (psig): 6.26

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.4	1.5	0.66	U
75-27-4	Bromodichloromethane	0.74	2.3	0.74	0.34	U
79-01-6	Trichloroethene	0.74	2.2	0.74	0.32	U
123-91-1	1,4-Dioxane	<b>0.51</b>	2.3	0.74	0.28	J
142-82-5	n-Heptane	<b>0.89</b>	2.3	1.4	0.37	J
108-10-1	4-Methyl-2-pentanone	0.74	4.4	0.74	0.32	U
108-88-3	Toluene	<b>6.6</b>	2.3	0.74	0.28	J
591-78-6	2-Hexanone	<b>1.3</b>	4.4	0.74	0.29	J
124-48-1	Dibromochloromethane	0.74	2.3	0.74	0.31	U
106-93-4	1,2-Dibromoethane	0.74	2.3	0.74	0.27	U
127-18-4	Tetrachloroethene	<b>0.40</b>	2.3	0.74	0.30	J
100-41-4	Ethylbenzene	<b>0.67</b>	2.3	0.74	0.33	J
179601-23-1	m,p-Xylenes	<b>4.1</b>	4.4	1.5	0.61	J
75-25-2	Bromoform	1.4	2.3	1.4	0.48	U
100-42-5	Styrene	<b>0.61</b>	2.3	1.4	0.38	J
95-47-6	o-Xylene	<b>1.3</b>	2.3	0.74	0.34	J
108-67-8	1,3,5-Trimethylbenzene	<b>1.2</b>	2.3	0.74	0.34	J
95-63-6	1,2,4-Trimethylbenzene	<b>7.0</b>	2.3	0.74	0.32	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.57	U
91-20-3	Naphthalene	<b>4.7</b>	2.3	1.4	0.57	J
1330-20-7	Xylenes, Total	<b>5.4</b>	4.4	1.5	0.61	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV139-150-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-003

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao/Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00950

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)  
 0.040 Liter(s)

Initial Pressure (psig): -4.02 Final Pressure (psig): 5.08

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.60	U
75-71-8	Dichlorodifluoromethane (CFC 12)	4.6	2.4	1.5	0.40	
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	0.79	2.5	0.79	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	12	25	3.8	1.7	J
67-64-1	Acetone	12	24	12	5.6	U
75-69-4	Trichlorofluoromethane	36	2.4	1.5	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	4.6	2.9	1.0	J
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	540	25	7.9	3.5	D
75-15-0	Carbon Disulfide	2.5	4.6	2.5	0.74	U
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	11	4.6	1.5	0.51	
141-78-6	Ethyl Acetate	43	4.6	3.0	1.3	L
110-54-3	n-Hexane	1.7	2.4	1.5	0.51	J
67-66-3	Chloroform	190	2.5	0.79	0.33	
109-99-9	Tetrahydrofuran (THF)	21	4.6	0.79	0.31	
107-06-2	1,2-Dichloroethane	0.79	2.4	0.79	0.27	U
71-43-2	Benzene	0.93	2.4	0.79	0.36	J
56-23-5	Carbon Tetrachloride	220	2.4	0.79	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00950

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -4.02 Final Pressure (psig): 5.08

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>280</b>	4.6	1.6	0.69	
75-27-4	Bromodichloromethane	<b>1.5</b>	2.4	0.79	0.36	<b>J</b>
79-01-6	Trichloroethene	<b>0.49</b>	2.4	0.79	0.33	<b>J</b>
123-91-1	1,4-Dioxane	0.79	2.4	0.79	0.29	<b>U</b>
142-82-5	n-Heptane	1.5	2.4	1.5	0.39	<b>U</b>
108-10-1	4-Methyl-2-pentanone	0.79	4.6	0.79	0.34	<b>U</b>
108-88-3	Toluene	0.79	2.4	0.79	0.30	<b>U</b>
591-78-6	2-Hexanone	0.79	4.6	0.79	0.31	<b>U</b>
124-48-1	Dibromochloromethane	0.79	2.4	0.79	0.32	<b>U</b>
106-93-4	1,2-Dibromoethane	0.79	2.4	0.79	0.29	<b>U</b>
127-18-4	Tetrachloroethene	<b>2.4</b>	2.4	0.79	0.32	<b>J</b>
100-41-4	Ethylbenzene	0.79	2.4	0.79	0.35	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.95</b>	4.6	1.6	0.65	<b>J</b>
75-25-2	Bromoform	1.5	2.5	1.5	0.51	<b>U</b>
100-42-5	Styrene	1.5	2.4	1.5	0.40	<b>U</b>
95-47-6	o-Xylene	<b>0.38</b>	2.5	0.79	0.36	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.79	2.5	0.79	0.36	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>1.2</b>	2.4	0.79	0.34	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.60	<b>U</b>
91-20-3	Naphthalene	<b>0.97</b>	2.4	1.4	0.60	<b>J</b>
1330-20-7	Xylenes, Total	<b>1.3</b>	4.6	1.6	0.65	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV139-250-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-004

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:  
 Container ID: 1SS00743

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.025 Liter(s)

Initial Pressure (psig): -3.16 Final Pressure (psig): 6.22

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	260	38	23	9.4	
75-71-8	Dichlorodifluoromethane (CFC 12)	6.3	38	23	6.3	J
74-87-3	Chloromethane	23	38	23	6.2	U
75-01-4	Vinyl Chloride	12	38	12	4.1	U
106-99-0	1,3-Butadiene	23	38	23	6.4	U
75-00-3	Chloroethane	23	38	23	4.8	U
64-17-5	Ethanol	60	380	60	27	U
67-64-1	Acetone	200	380	200	87	U
75-69-4	Trichlorofluoromethane	55	37	23	5.9	
67-63-0	2-Propanol (Isopropyl Alcohol)	46	72	46	16	U
75-09-2	Methylene Chloride	23	38	23	11	U
76-13-1	Trichlorotrifluoroethane	870	38	12	5.5	
75-15-0	Carbon Disulfide	39	72	39	12	U
75-34-3	1,1-Dichloroethane	24	39	24	5.6	U
78-93-3	2-Butanone (MEK)	23	72	23	8.0	U
141-78-6	Ethyl Acetate	47	72	47	20	U, L
110-54-3	n-Hexane	7,100	38	23	8.0	
67-66-3	Chloroform	380	38	12	5.1	
109-99-9	Tetrahydrofuran (THF)	10	72	12	4.9	J
107-06-2	1,2-Dichloroethane	12	38	12	4.3	U
71-43-2	Benzene	310	38	12	5.6	
56-23-5	Carbon Tetrachloride	260	37	12	5.4	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-004

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.025 Liter(s)

Test Notes:

Container ID: 1SS00743

Initial Pressure (psig): -3.16 Final Pressure (psig): 6.22

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	6,000	72	25	11	
75-27-4	Bromodichloromethane	12	38	12	5.6	U
79-01-6	Trichloroethene	12	37	12	5.2	U
123-91-1	1,4-Dioxane	12	38	12	4.6	U
142-82-5	n-Heptane	2,800	38	23	6.2	
108-10-1	4-Methyl-2-pentanone	12	72	12	5.3	U
108-88-3	Toluene	260	38	12	4.7	
591-78-6	2-Hexanone	12	72	12	4.8	U
124-48-1	Dibromochloromethane	12	38	12	5.1	U
106-93-4	1,2-Dibromoethane	12	38	12	4.5	U
127-18-4	Tetrachloroethene	12	38	12	5.0	U
100-41-4	Ethylbenzene	12	38	12	5.4	U
179601-23-1	m,p-Xylenes	25	72	25	10	U
75-25-2	Bromoform	23	38	23	8.0	U
100-42-5	Styrene	23	38	23	6.2	U
95-47-6	o-Xylene	12	38	12	5.6	U
108-67-8	1,3,5-Trimethylbenzene	12	38	12	5.6	U
95-63-6	1,2,4-Trimethylbenzene	12	38	12	5.4	U
120-82-1	1,2,4-Trichlorobenzene	23	72	23	9.4	U
91-20-3	Naphthalene	22	38	22	9.4	U
1330-20-7	Xylenes, Total	25	72	25	10	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV139-350-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-005

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao/Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00767

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)  
 0.040 Liter(s)

Initial Pressure (psig): -2.61 Final Pressure (psig): 6.23

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.2	1.4	0.56	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3.8	2.2	1.4	0.38	
74-87-3	Chloromethane	1.4	2.2	1.4	0.37	U
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	U
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.38	U
75-00-3	Chloroethane	0.29	2.2	1.4	0.29	J
64-17-5	Ethanol	7.9	23	3.6	1.6	J
67-64-1	Acetone	12	22	12	5.2	U
75-69-4	Trichlorofluoromethane	66	2.2	1.4	0.35	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.3	2.7	0.95	U
75-09-2	Methylene Chloride	1.4	2.2	1.4	0.65	U
76-13-1	Trichlorotrifluoroethane	800	23	7.4	3.3	D
75-15-0	Carbon Disulfide	2.3	4.3	2.3	0.69	U
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.34	U
78-93-3	2-Butanone (MEK)	1.4	4.3	1.4	0.48	U
141-78-6	Ethyl Acetate	2.8	4.3	2.8	1.2	U, L
110-54-3	n-Hexane	1.4	2.2	1.4	0.48	U
67-66-3	Chloroform	540	23	7.4	3.1	D
109-99-9	Tetrahydrofuran (THF)	3.8	4.3	0.74	0.29	J
107-06-2	1,2-Dichloroethane	0.74	2.2	0.74	0.26	U
71-43-2	Benzene	74	2.2	0.74	0.33	
56-23-5	Carbon Tetrachloride	150	2.2	0.74	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00767

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.61 Final Pressure (psig): 6.23

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	31	4.3	1.5	0.65	
75-27-4	Bromodichloromethane	10	2.2	0.74	0.33	
79-01-6	Trichloroethene	4.5	2.2	0.74	0.31	
123-91-1	1,4-Dioxane	0.74	2.2	0.74	0.27	U
142-82-5	n-Heptane	1.4	2.2	1.4	0.37	U
108-10-1	4-Methyl-2-pentanone	0.74	4.3	0.74	0.32	U
108-88-3	Toluene	52	2.2	0.74	0.28	
591-78-6	2-Hexanone	0.81	4.3	0.74	0.29	J
124-48-1	Dibromochloromethane	0.74	2.2	0.74	0.30	U
106-93-4	1,2-Dibromoethane	0.74	2.2	0.74	0.27	U
127-18-4	Tetrachloroethene	4.9	2.2	0.74	0.30	
100-41-4	Ethylbenzene	0.38	2.2	0.74	0.32	J
179601-23-1	m,p-Xylenes	1.6	4.3	1.5	0.61	J
75-25-2	Bromoform	1.4	2.3	1.4	0.48	U
100-42-5	Styrene	1.4	2.2	1.4	0.37	U
95-47-6	o-Xylene	1.1	2.3	0.74	0.33	J
108-67-8	1,3,5-Trimethylbenzene	0.74	2.3	0.74	0.33	U
95-63-6	1,2,4-Trimethylbenzene	0.91	2.2	0.74	0.32	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.3	1.4	0.56	U
91-20-3	Naphthalene	0.60	2.2	1.3	0.56	J
1330-20-7	Xylenes, Total	2.6	4.3	1.5	0.61	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV139-450-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-006

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC01383

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.20 Final Pressure (psig): 8.01

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	6.1	2.4	1.5	0.59	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.5	2.4	1.5	0.40	J
74-87-3	Chloromethane	22	2.4	1.5	0.39	
75-01-4	Vinyl Chloride	6.3	2.4	0.77	0.26	
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	7.6	2.4	1.5	0.30	
64-17-5	Ethanol	11	24	3.8	1.7	J
67-64-1	Acetone	41	24	12	5.5	
75-69-4	Trichlorofluoromethane	2.9	2.3	1.5	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.0	4.6	2.9	1.0	J
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.68	U
76-13-1	Trichlorotrifluoroethane	23	2.4	0.77	0.35	
75-15-0	Carbon Disulfide	61	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	0.53	2.5	1.5	0.35	J
78-93-3	2-Butanone (MEK)	9.9	4.6	1.5	0.50	
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U, L
110-54-3	n-Hexane	0.76	2.4	1.5	0.50	J
67-66-3	Chloroform	49	2.4	0.77	0.32	
109-99-9	Tetrahydrofuran (THF)	26	4.6	0.77	0.30	
107-06-2	1,2-Dichloroethane	4.4	2.4	0.77	0.27	
71-43-2	Benzene	2.5	2.4	0.77	0.35	
56-23-5	Carbon Tetrachloride	70	2.3	0.77	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV139-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01383

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.20 Final Pressure (psig): 8.01

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.6	1.5	0.68	U
75-27-4	Bromodichloromethane	4.4	2.4	0.77	0.35	
79-01-6	Trichloroethene	21	2.3	0.77	0.33	
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	0.93	2.4	1.5	0.39	J
108-10-1	4-Methyl-2-pentanone	0.56	4.6	0.77	0.33	J
108-88-3	Toluene	2.3	2.4	0.77	0.30	J
591-78-6	2-Hexanone	1.4	4.6	0.77	0.30	J
124-48-1	Dibromochloromethane	0.51	2.4	0.77	0.32	J
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	5.7	2.4	0.77	0.31	
100-41-4	Ethylbenzene	3.6	2.4	0.77	0.34	
179601-23-1	m,p-Xylenes	11	4.6	1.5	0.64	
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	2.5	2.4	0.77	0.35	
108-67-8	1,3,5-Trimethylbenzene	0.77	2.4	0.77	0.35	U
95-63-6	1,2,4-Trimethylbenzene	0.93	2.4	0.77	0.34	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	14	4.6	1.5	0.64	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV140-025-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-007

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:  
 Container ID: 1SS00792

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 6.41

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.60	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	2.4	1.5	0.40	
74-87-3	Chloromethane	0.90	2.4	1.5	0.40	J
75-01-4	Vinyl Chloride	0.78	2.4	0.78	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	3.0	24	3.8	1.7	J
67-64-1	Acetone	54	24	12	5.5	
75-69-4	Trichlorofluoromethane	1.1	2.3	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.1	4.6	2.9	1.0	J
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	0.48	2.4	0.78	0.35	J
75-15-0	Carbon Disulfide	21	4.6	2.5	0.74	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	46	4.6	1.5	0.51	
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U, L
110-54-3	n-Hexane	2.3	2.4	1.5	0.51	J
67-66-3	Chloroform	1.9	2.4	0.78	0.33	J
109-99-9	Tetrahydrofuran (THF)	28	4.6	0.78	0.31	
107-06-2	1,2-Dichloroethane	0.78	2.4	0.78	0.27	U
71-43-2	Benzene	5.3	2.4	0.78	0.35	
56-23-5	Carbon Tetrachloride	2.8	2.3	0.78	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00792

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 6.41

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1.5</b>	4.6	1.6	0.69	<b>J</b>
75-27-4	Bromodichloromethane	0.78	2.4	0.78	0.35	<b>U</b>
79-01-6	Trichloroethene	0.78	2.3	0.78	0.33	<b>U</b>
123-91-1	1,4-Dioxane	0.78	2.4	0.78	0.29	<b>U</b>
142-82-5	n-Heptane	<b>3.3</b>	2.4	1.5	0.39	
108-10-1	4-Methyl-2-pentanone	<b>0.77</b>	4.6	0.78	0.34	<b>J</b>
108-88-3	Toluene	<b>18</b>	2.4	0.78	0.30	
591-78-6	2-Hexanone	0.78	4.6	0.78	0.30	<b>U</b>
124-48-1	Dibromochloromethane	0.78	2.4	0.78	0.32	<b>U</b>
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.29	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.71</b>	2.4	0.78	0.32	<b>J</b>
100-41-4	Ethylbenzene	<b>1.7</b>	2.4	0.78	0.35	<b>J</b>
179601-23-1	m,p-Xylenes	<b>7.1</b>	4.6	1.6	0.64	
75-25-2	Bromoform	1.5	2.4	1.5	0.51	<b>U</b>
100-42-5	Styrene	1.5	2.4	1.5	0.40	<b>U</b>
95-47-6	o-Xylene	<b>2.0</b>	2.4	0.78	0.35	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.50</b>	2.4	0.78	0.35	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>1.4</b>	2.4	0.78	0.34	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.60	<b>U</b>
91-20-3	Naphthalene	<b>0.70</b>	2.4	1.4	0.60	<b>J</b>
1330-20-7	Xylenes, Total	<b>9.0</b>	4.6	1.6	0.64	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV140-050-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-008

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC01023

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.11 Final Pressure (psig): 6.23

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.4	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	2.4	1.4	0.39	
74-87-3	Chloromethane	0.48	2.4	1.4	0.39	J
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	U
106-99-0	1,3-Butadiene	1.4	2.4	1.4	0.40	U
75-00-3	Chloroethane	1.4	2.4	1.4	0.30	U
64-17-5	Ethanol	10	24	3.8	1.7	J
67-64-1	Acetone	28	24	12	5.4	
75-69-4	Trichlorofluoromethane	1.2	2.3	1.4	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	4.5	2.9	1.0	J
75-09-2	Methylene Chloride	1.4	2.4	1.4	0.68	U
76-13-1	Trichlorotrifluoroethane	0.57	2.4	0.77	0.34	J
75-15-0	Carbon Disulfide	29	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	8.1	4.5	1.4	0.50	
141-78-6	Ethyl Acetate	180	4.5	2.9	1.3	L
110-54-3	n-Hexane	1.7	2.4	1.4	0.50	J
67-66-3	Chloroform	3.8	2.4	0.77	0.32	
109-99-9	Tetrahydrofuran (THF)	17	4.5	0.77	0.30	
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	2.2	2.4	0.77	0.35	J
56-23-5	Carbon Tetrachloride	3.6	2.3	0.77	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-008

Test Code: EPA TO-15

Date Collected: 10/12/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01023

Initial Pressure (psig): -3.11 Final Pressure (psig): 6.23

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.5	1.5	0.68	U
75-27-4	Bromodichloromethane	0.77	2.4	0.77	0.35	U
79-01-6	Trichloroethene	0.77	2.3	0.77	0.33	U
123-91-1	1,4-Dioxane	0.76	2.4	0.77	0.29	J
142-82-5	n-Heptane	2.8	2.4	1.4	0.38	
108-10-1	4-Methyl-2-pentanone	0.45	4.5	0.77	0.33	J
108-88-3	Toluene	14	2.4	0.77	0.29	
591-78-6	2-Hexanone	0.77	4.5	0.77	0.30	U
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	0.67	2.4	0.77	0.31	J
100-41-4	Ethylbenzene	1.3	2.4	0.77	0.34	J
179601-23-1	m,p-Xylenes	5.9	4.5	1.5	0.63	
75-25-2	Bromoform	1.4	2.4	1.4	0.50	U
100-42-5	Styrene	1.4	2.4	1.4	0.39	U
95-47-6	o-Xylene	1.7	2.4	0.77	0.35	J
108-67-8	1,3,5-Trimethylbenzene	0.49	2.4	0.77	0.35	J
95-63-6	1,2,4-Trimethylbenzene	1.4	2.4	0.77	0.33	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	7.6	4.5	1.5	0.63	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV140-150-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-009

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00780

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.06 Final Pressure (psig): 5.51

Container Dilution Factor: 1.74

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.80</b>	2.3	1.4	0.57	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>3.1</b>	2.3	1.4	0.38	
74-87-3	Chloromethane	1.4	2.3	1.4	0.37	<b>U</b>
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	<b>U</b>
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.38	<b>U</b>
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	<b>U</b>
64-17-5	Ethanol	<b>4.7</b>	23	3.6	1.6	<b>J</b>
67-64-1	Acetone	<b>28</b>	23	12	5.2	
75-69-4	Trichlorofluoromethane	<b>0.80</b>	2.2	1.4	0.35	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.4	2.7	0.96	<b>U</b>
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.65	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.42</b>	2.3	0.74	0.33	<b>J</b>
75-15-0	Carbon Disulfide	<b>2.6</b>	4.4	2.3	0.70	<b>J</b>
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.34	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>5.2</b>	4.4	1.4	0.48	
141-78-6	Ethyl Acetate	2.8	4.4	2.8	1.2	<b>U, L</b>
110-54-3	n-Hexane	1.4	2.3	1.4	0.48	<b>U</b>
67-66-3	Chloroform	<b>4.3</b>	2.3	0.74	0.31	
109-99-9	Tetrahydrofuran (THF)	<b>94</b>	4.4	0.74	0.29	
107-06-2	1,2-Dichloroethane	0.74	2.3	0.74	0.26	<b>U</b>
71-43-2	Benzene	0.74	2.3	0.74	0.33	<b>U</b>
56-23-5	Carbon Tetrachloride	<b>10</b>	2.2	0.74	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00780

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.06 Final Pressure (psig): 5.51

Container Dilution Factor: 1.74

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.4	1.5	0.65	U
75-27-4	Bromodichloromethane	0.74	2.3	0.74	0.33	U
79-01-6	Trichloroethene	0.74	2.2	0.74	0.31	U
123-91-1	1,4-Dioxane	0.74	2.3	0.74	0.27	U
142-82-5	n-Heptane	1.4	2.3	1.4	0.37	U
108-10-1	4-Methyl-2-pentanone	<b>0.59</b>	4.4	0.74	0.32	J
108-88-3	Toluene	<b>0.69</b>	2.3	0.74	0.28	J
591-78-6	2-Hexanone	<b>1.2</b>	4.4	0.74	0.29	J
124-48-1	Dibromochloromethane	0.74	2.3	0.74	0.30	U
106-93-4	1,2-Dibromoethane	0.74	2.3	0.74	0.27	U
127-18-4	Tetrachloroethene	<b>1.0</b>	2.3	0.74	0.30	J
100-41-4	Ethylbenzene	0.74	2.3	0.74	0.33	U
179601-23-1	m,p-Xylenes	1.5	4.4	1.5	0.61	U
75-25-2	Bromoform	1.4	2.3	1.4	0.48	U
100-42-5	Styrene	1.4	2.3	1.4	0.37	U
95-47-6	o-Xylene	0.74	2.3	0.74	0.33	U
108-67-8	1,3,5-Trimethylbenzene	0.74	2.3	0.74	0.33	U
95-63-6	1,2,4-Trimethylbenzene	0.74	2.3	0.74	0.32	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.57	U
91-20-3	Naphthalene	1.3	2.3	1.3	0.57	U
1330-20-7	Xylenes, Total	1.5	4.4	1.5	0.61	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV140-250-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-010

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:  
 Container ID: 1SS00956

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.47 Final Pressure (psig): 6.26

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.84</b>	2.4	1.5	0.61	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>11</b>	2.4	1.5	0.41	
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	<b>U</b>
75-01-4	Vinyl Chloride	0.79	2.5	0.79	0.27	<b>U</b>
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	<b>U</b>
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	<b>U</b>
64-17-5	Ethanol	<b>2.8</b>	25	3.9	1.7	<b>J</b>
67-64-1	Acetone	13	24	13	5.6	<b>U</b>
75-69-4	Trichlorofluoromethane	<b>1.2</b>	2.4	1.5	0.38	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.7	2.9	1.0	<b>U</b>
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.70	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.75</b>	2.5	0.79	0.36	<b>J</b>
75-15-0	Carbon Disulfide	<b>18</b>	4.7	2.5	0.75	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>4.2</b>	4.7	1.5	0.51	<b>J</b>
141-78-6	Ethyl Acetate	3.0	4.7	3.0	1.3	<b>U, L</b>
110-54-3	n-Hexane	<b>2.4</b>	2.4	1.5	0.51	
67-66-3	Chloroform	<b>1.8</b>	2.5	0.79	0.33	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>22</b>	4.7	0.79	0.31	
107-06-2	1,2-Dichloroethane	0.79	2.4	0.79	0.28	<b>U</b>
71-43-2	Benzene	<b>0.63</b>	2.4	0.79	0.36	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>3.5</b>	2.4	0.79	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00956

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.47 Final Pressure (psig): 6.26

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>2.0</b>	4.7	1.6	0.70	<b>J</b>
75-27-4	Bromodichloromethane	0.79	2.4	0.79	0.36	<b>U</b>
79-01-6	Trichloroethene	0.79	2.4	0.79	0.34	<b>U</b>
123-91-1	1,4-Dioxane	0.79	2.4	0.79	0.29	<b>U</b>
142-82-5	n-Heptane	<b>1.2</b>	2.4	1.5	0.40	<b>J</b>
108-10-1	4-Methyl-2-pentanone	0.79	4.7	0.79	0.34	<b>U</b>
108-88-3	Toluene	<b>1.1</b>	2.4	0.79	0.30	<b>J</b>
591-78-6	2-Hexanone	0.79	4.7	0.79	0.31	<b>U</b>
124-48-1	Dibromochloromethane	0.79	2.4	0.79	0.33	<b>U</b>
106-93-4	1,2-Dibromoethane	0.79	2.4	0.79	0.29	<b>U</b>
127-18-4	Tetrachloroethene	0.79	2.4	0.79	0.32	<b>U</b>
100-41-4	Ethylbenzene	0.79	2.4	0.79	0.35	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.74</b>	4.7	1.6	0.65	<b>J</b>
75-25-2	Bromoform	1.5	2.5	1.5	0.51	<b>U</b>
100-42-5	Styrene	1.5	2.4	1.5	0.40	<b>U</b>
95-47-6	o-Xylene	0.79	2.5	0.79	0.36	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.79	2.5	0.79	0.36	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.79	2.4	0.79	0.35	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	<b>U</b>
91-20-3	Naphthalene	1.4	2.4	1.4	0.61	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.74</b>	4.7	1.6	0.65	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV140-350-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-011

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:  
 Container ID: 1SS00970

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.01 Final Pressure (psig): 5.43

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.1	2.2	1.4	0.56	J
75-71-8	Dichlorodifluoromethane (CFC 12)	26	2.2	1.4	0.37	
74-87-3	Chloromethane	1.4	2.2	1.4	0.37	U
75-01-4	Vinyl Chloride	0.73	2.3	0.73	0.25	U
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.38	U
75-00-3	Chloroethane	1.4	2.2	1.4	0.28	U
64-17-5	Ethanol	1.7	23	3.6	1.6	J
67-64-1	Acetone	12	22	12	5.2	U
75-69-4	Trichlorofluoromethane	2.8	2.2	1.4	0.35	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.3	2.7	0.95	U
75-09-2	Methylene Chloride	1.4	2.2	1.4	0.65	U
76-13-1	Trichlorotrifluoroethane	0.67	2.3	0.73	0.33	J
75-15-0	Carbon Disulfide	9.1	4.3	2.3	0.69	
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.34	U
78-93-3	2-Butanone (MEK)	2.0	4.3	1.4	0.47	J
141-78-6	Ethyl Acetate	2.8	4.3	2.8	1.2	U, L
110-54-3	n-Hexane	1.3	2.2	1.4	0.47	J
67-66-3	Chloroform	0.73	2.3	0.73	0.31	U
109-99-9	Tetrahydrofuran (THF)	20	4.3	0.73	0.29	
107-06-2	1,2-Dichloroethane	0.73	2.2	0.73	0.25	U
71-43-2	Benzene	20	2.2	0.73	0.33	
56-23-5	Carbon Tetrachloride	0.73	2.2	0.73	0.32	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00970

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.01 Final Pressure (psig): 5.43

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	15	4.3	1.5	0.65	
75-27-4	Bromodichloromethane	0.73	2.2	0.73	0.33	U
79-01-6	Trichloroethene	0.73	2.2	0.73	0.31	U
123-91-1	1,4-Dioxane	0.73	2.2	0.73	0.27	U
142-82-5	n-Heptane	0.86	2.2	1.4	0.37	J
108-10-1	4-Methyl-2-pentanone	0.73	4.3	0.73	0.31	U
108-88-3	Toluene	2.8	2.2	0.73	0.28	
591-78-6	2-Hexanone	0.73	4.3	0.73	0.28	U
124-48-1	Dibromochloromethane	0.73	2.2	0.73	0.30	U
106-93-4	1,2-Dibromoethane	0.73	2.2	0.73	0.27	U
127-18-4	Tetrachloroethene	0.92	2.2	0.73	0.30	J
100-41-4	Ethylbenzene	0.62	2.2	0.73	0.32	J
179601-23-1	m,p-Xylenes	1.2	4.3	1.5	0.60	J
75-25-2	Bromoform	1.4	2.3	1.4	0.47	U
100-42-5	Styrene	1.4	2.2	1.4	0.37	U
95-47-6	o-Xylene	0.73	2.3	0.73	0.33	U
108-67-8	1,3,5-Trimethylbenzene	0.73	2.3	0.73	0.33	U
95-63-6	1,2,4-Trimethylbenzene	0.73	2.2	0.73	0.32	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.3	1.4	0.56	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.56	U
1330-20-7	Xylenes, Total	1.2	4.3	1.5	0.60	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV140-450-604  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-012

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC01342

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.04 Final Pressure (psig): 6.32

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.3	1.4	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3.8	2.3	1.4	0.39	
74-87-3	Chloromethane	2.3	2.3	1.4	0.39	J
75-01-4	Vinyl Chloride	0.81	2.4	0.77	0.26	J
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.40	U
75-00-3	Chloroethane	1.1	2.3	1.4	0.30	J
64-17-5	Ethanol	5.0	24	3.7	1.7	J
67-64-1	Acetone	170	23	12	5.4	
75-69-4	Trichlorofluoromethane	0.70	2.3	1.4	0.36	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	4.5	2.8	0.99	J
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.68	U
76-13-1	Trichlorotrifluoroethane	0.77	2.4	0.77	0.34	U
75-15-0	Carbon Disulfide	14	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	200	4.5	1.4	0.50	
141-78-6	Ethyl Acetate	2.9	4.5	2.9	1.3	U, L
110-54-3	n-Hexane	2.6	2.3	1.4	0.50	
67-66-3	Chloroform	1.9	2.4	0.77	0.32	J
109-99-9	Tetrahydrofuran (THF)	70	4.5	0.77	0.30	
107-06-2	1,2-Dichloroethane	0.78	2.3	0.77	0.27	J
71-43-2	Benzene	12	2.3	0.77	0.35	
56-23-5	Carbon Tetrachloride	3.4	2.3	0.77	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01342

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.04 Final Pressure (psig): 6.32

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>3.9</b>	4.5	1.5	0.68	<b>J</b>
75-27-4	Bromodichloromethane	0.77	2.3	0.77	0.35	<b>U</b>
79-01-6	Trichloroethene	0.77	2.3	0.77	0.32	<b>U</b>
123-91-1	1,4-Dioxane	0.77	2.3	0.77	0.28	<b>U</b>
142-82-5	n-Heptane	<b>1.4</b>	2.3	1.4	0.38	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>2.2</b>	4.5	0.77	0.33	<b>J</b>
108-88-3	Toluene	<b>29</b>	2.3	0.77	0.29	<b>J</b>
591-78-6	2-Hexanone	0.77	4.5	0.77	0.30	<b>U</b>
124-48-1	Dibromochloromethane	0.77	2.3	0.77	0.32	<b>U</b>
106-93-4	1,2-Dibromoethane	0.77	2.3	0.77	0.28	<b>U</b>
127-18-4	Tetrachloroethene	0.77	2.3	0.77	0.31	<b>U</b>
100-41-4	Ethylbenzene	<b>1.6</b>	2.3	0.77	0.34	<b>J</b>
179601-23-1	m,p-Xylenes	<b>3.8</b>	4.5	1.5	0.63	<b>J</b>
75-25-2	Bromoform	1.4	2.4	1.4	0.50	<b>U</b>
100-42-5	Styrene	1.4	2.3	1.4	0.39	<b>U</b>
95-47-6	o-Xylene	<b>1.0</b>	2.4	0.77	0.35	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.77	2.4	0.77	0.35	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.40</b>	2.3	0.77	0.33	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.59	<b>U</b>
91-20-3	Naphthalene	1.4	2.3	1.4	0.59	<b>U</b>
1330-20-7	Xylenes, Total	<b>4.8</b>	4.5	1.5	0.63	<b>J</b>

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV140-450-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-013

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:  
 Container ID: 1SS00820

Date Collected: 10/12/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.92 Final Pressure (psig): 5.53

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.2	2.2	1.4	0.56	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3.9	2.2	1.4	0.37	
74-87-3	Chloromethane	2.8	2.2	1.4	0.37	
75-01-4	Vinyl Chloride	0.95	2.3	0.73	0.25	J
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.38	U
75-00-3	Chloroethane	1.3	2.2	1.4	0.28	J
64-17-5	Ethanol	3.8	23	3.6	1.6	J
67-64-1	Acetone	88	22	12	5.2	
75-69-4	Trichlorofluoromethane	0.61	2.2	1.4	0.35	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.3	2.7	0.95	U
75-09-2	Methylene Chloride	1.4	2.2	1.4	0.65	U
76-13-1	Trichlorotrifluoroethane	0.73	2.3	0.73	0.33	U
75-15-0	Carbon Disulfide	14	4.3	2.3	0.69	
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.34	U
78-93-3	2-Butanone (MEK)	83	4.3	1.4	0.47	
141-78-6	Ethyl Acetate	5.8	4.3	2.8	1.2	L
110-54-3	n-Hexane	2.4	2.2	1.4	0.47	
67-66-3	Chloroform	2.2	2.3	0.73	0.31	J
109-99-9	Tetrahydrofuran (THF)	30	4.3	0.73	0.29	
107-06-2	1,2-Dichloroethane	0.95	2.2	0.73	0.25	J
71-43-2	Benzene	13	2.2	0.73	0.33	
56-23-5	Carbon Tetrachloride	4.0	2.2	0.73	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV140-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00820

Date Collected: 10/12/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.92 Final Pressure (psig): 5.53

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	4.3	4.3	1.5	0.65	J
75-27-4	Bromodichloromethane	0.73	2.2	0.73	0.33	U
79-01-6	Trichloroethene	0.40	2.2	0.73	0.31	J
123-91-1	1,4-Dioxane	1.3	2.2	0.73	0.27	J
142-82-5	n-Heptane	0.96	2.2	1.4	0.37	J
108-10-1	4-Methyl-2-pentanone	2.2	4.3	0.73	0.31	J
108-88-3	Toluene	31	2.2	0.73	0.28	
591-78-6	2-Hexanone	0.73	4.3	0.73	0.28	U
124-48-1	Dibromochloromethane	0.73	2.2	0.73	0.30	U
106-93-4	1,2-Dibromoethane	0.73	2.2	0.73	0.27	U
127-18-4	Tetrachloroethene	0.31	2.2	0.73	0.30	J
100-41-4	Ethylbenzene	1.5	2.2	0.73	0.32	J
179601-23-1	m,p-Xylenes	3.2	4.3	1.5	0.60	J
75-25-2	Bromoform	1.4	2.3	1.4	0.47	U
100-42-5	Styrene	1.4	2.2	1.4	0.37	U
95-47-6	o-Xylene	0.89	2.3	0.73	0.33	J
108-67-8	1,3,5-Trimethylbenzene	0.73	2.3	0.73	0.33	U
95-63-6	1,2,4-Trimethylbenzene	0.73	2.2	0.73	0.32	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.3	1.4	0.56	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.56	U
1330-20-7	Xylenes, Total	4.1	4.3	1.5	0.60	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SVE12-410-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-014

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00123

Date Collected: 10/13/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.77      Final Pressure (psig): 5.16

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.78	2.4	1.5	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	130	2.4	1.5	0.40	
74-87-3	Chloromethane	1.5	2.4	1.5	0.39	U
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	4.0	24	3.8	1.7	J
67-64-1	Acetone	28	24	12	5.5	
75-69-4	Trichlorofluoromethane	20	2.3	1.5	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.68	U
76-13-1	Trichlorotrifluoroethane	63	2.4	0.77	0.35	
75-15-0	Carbon Disulfide	15	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.35	U
78-93-3	2-Butanone (MEK)	5.9	4.6	1.5	0.50	
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U, L
110-54-3	n-Hexane	0.54	2.4	1.5	0.50	J
67-66-3	Chloroform	0.74	2.4	0.77	0.32	J
109-99-9	Tetrahydrofuran (THF)	0.91	4.6	0.77	0.30	J
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	0.91	2.4	0.77	0.35	J
56-23-5	Carbon Tetrachloride	32	2.3	0.77	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE12-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00123

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/4/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.77 Final Pressure (psig): 5.16

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.6	1.5	0.68	U
75-27-4	Bromodichloromethane	0.77	2.4	0.77	0.35	U
79-01-6	Trichloroethene	<b>31</b>	2.3	0.77	0.33	
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	1.5	2.4	1.5	0.39	U
108-10-1	4-Methyl-2-pentanone	<b>0.41</b>	4.6	0.77	0.33	J
108-88-3	Toluene	<b>0.76</b>	2.4	0.77	0.30	J
591-78-6	2-Hexanone	<b>0.66</b>	4.6	0.77	0.30	J
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	<b>14</b>	2.4	0.77	0.31	
100-41-4	Ethylbenzene	<b>1.7</b>	2.4	0.77	0.34	J
179601-23-1	m,p-Xylenes	<b>1.5</b>	4.6	1.5	0.64	J
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	0.77	2.4	0.77	0.35	U
108-67-8	1,3,5-Trimethylbenzene	<b>0.42</b>	2.4	0.77	0.35	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.90</b>	2.4	0.77	0.34	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	<b>0.98</b>	2.4	1.4	0.59	J
1330-20-7	Xylenes, Total	<b>1.5</b>	4.6	1.5	0.64	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV07-050-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-015

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00439

Date Collected: 10/13/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.00020 Liter(s)  
 0.000050 Liter(s)

Initial Pressure (psig): -2.48      Final Pressure (psig): 7.96

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>2,500</b>	4,800	3,000	1,200	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	3,000	4,800	3,000	800	<b>U</b>
74-87-3	Chloromethane	3,000	4,800	3,000	800	<b>U</b>
75-01-4	Vinyl Chloride	1,600	4,900	1,600	530	<b>U</b>
106-99-0	1,3-Butadiene	3,000	4,800	3,000	810	<b>U</b>
75-00-3	Chloroethane	3,000	4,800	3,000	610	<b>U</b>
64-17-5	Ethanol	7,700	49,000	7,700	3,400	<b>U</b>
67-64-1	Acetone	25,000	48,000	25,000	11,000	<b>U</b>
75-69-4	Trichlorofluoromethane	3,000	4,700	3,000	750	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	5,800	9,300	5,800	2,000	<b>U</b>
75-09-2	Methylene Chloride	3,000	4,800	3,000	1,400	<b>U</b>
76-13-1	Trichlorotrifluoroethane	1,600	4,900	1,600	700	<b>U</b>
75-15-0	Carbon Disulfide	5,000	9,300	5,000	1,500	<b>U</b>
75-34-3	1,1-Dichloroethane	3,100	5,000	3,100	720	<b>U</b>
78-93-3	2-Butanone (MEK)	3,000	9,300	3,000	1,000	<b>U</b>
141-78-6	Ethyl Acetate	6,000	9,300	6,000	2,600	<b>U, L</b>
110-54-3	n-Hexane	<b>1,100,000</b>	19,000	12,000	4,100	<b>D</b>
67-66-3	Chloroform	1,600	4,900	1,600	660	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	1,600	9,300	1,600	620	<b>U</b>
107-06-2	1,2-Dichloroethane	1,600	4,800	1,600	550	<b>U</b>
71-43-2	Benzene	<b>53,000</b>	4,800	1,600	710	
56-23-5	Carbon Tetrachloride	1,600	4,700	1,600	680	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV07-050-204

ALS Project ID: P2005897

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005897-015

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Topacio De Leon

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

0.000050 Liter(s)

Container ID: 1SC00439

Initial Pressure (psig): -2.48 Final Pressure (psig): 7.96

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1,000,000	9,300	3,100	1,400	
75-27-4	Bromodichloromethane	1,600	4,800	1,600	710	U
79-01-6	Trichloroethene	1,600	4,700	1,600	670	U
123-91-1	1,4-Dioxane	1,600	4,800	1,600	580	U
142-82-5	n-Heptane	940,000	19,000	12,000	3,100	D
108-10-1	4-Methyl-2-pentanone	1,600	9,300	1,600	680	U
108-88-3	Toluene	97,000	4,800	1,600	600	
591-78-6	2-Hexanone	1,600	9,300	1,600	610	U
124-48-1	Dibromochloromethane	1,600	4,800	1,600	650	U
106-93-4	1,2-Dibromoethane	1,600	4,800	1,600	570	U
127-18-4	Tetrachloroethene	1,600	4,800	1,600	640	U
100-41-4	Ethylbenzene	5,600	4,800	1,600	690	
179601-23-1	m,p-Xylenes	11,000	9,300	3,100	1,300	
75-25-2	Bromoform	3,000	4,900	3,000	1,000	U
100-42-5	Styrene	3,000	4,800	3,000	800	U
95-47-6	o-Xylene	1,900	4,900	1,600	710	J
108-67-8	1,3,5-Trimethylbenzene	1,600	4,900	1,600	710	U
95-63-6	1,2,4-Trimethylbenzene	1,600	4,800	1,600	680	U
120-82-1	1,2,4-Trichlorobenzene	3,000	9,300	3,000	1,200	U
91-20-3	Naphthalene	2,900	4,800	2,900	1,200	U
1330-20-7	Xylenes, Total	13,000	9,300	3,100	1,300	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV07-100-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
ALS Sample ID: P2005897-016

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
Analyst: Simon Cao  
Sampling Media: 1.0 L Silonite Summa Canister  
Test Notes:  
Container ID: 1SS00740

Date Collected: 10/13/20  
Date Received: 10/19/20  
Date Analyzed: 11/4/20  
Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -5.26 Final Pressure (psig): 5.31

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3,400	5,500	3,400	1,400	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3,400	5,500	3,400	920	U
74-87-3	Chloromethane	3,400	5,500	3,400	910	U
75-01-4	Vinyl Chloride	1,800	5,600	1,800	600	U
106-99-0	1,3-Butadiene	3,400	5,500	3,400	930	U
75-00-3	Chloroethane	3,400	5,500	3,400	700	U
64-17-5	Ethanol	8,800	56,000	8,800	3,900	U
67-64-1	Acetone	29,000	55,000	29,000	13,000	U
75-69-4	Trichlorofluoromethane	3,400	5,400	3,400	860	U
67-63-0	2-Propanol (Isopropyl Alcohol)	6,700	11,000	6,700	2,300	U
75-09-2	Methylene Chloride	3,400	5,500	3,400	1,600	U
76-13-1	Trichlorotrifluoroethane	1,800	5,600	1,800	810	U
75-15-0	Carbon Disulfide	5,700	11,000	5,700	1,700	U
75-34-3	1,1-Dichloroethane	3,500	5,700	3,500	830	U
78-93-3	2-Butanone (MEK)	3,400	11,000	3,400	1,200	U
141-78-6	Ethyl Acetate	6,900	11,000	6,900	3,000	U, L
110-54-3	n-Hexane	570,000	5,500	3,400	1,200	
67-66-3	Chloroform	1,800	5,600	1,800	750	U
109-99-9	Tetrahydrofuran (THF)	1,800	11,000	1,800	710	U
107-06-2	1,2-Dichloroethane	1,800	5,500	1,800	630	U
71-43-2	Benzene	34,000	5,500	1,800	820	
56-23-5	Carbon Tetrachloride	1,800	5,400	1,800	780	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV07-100-204

ALS Project ID: P2005897

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005897-016

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS00740

Initial Pressure (psig): -5.26 Final Pressure (psig): 5.31

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>750,000</b>	11,000	3,600	1,600	
75-27-4	Bromodichloromethane	1,800	5,500	1,800	820	U
79-01-6	Trichloroethene	1,800	5,400	1,800	760	U
123-91-1	1,4-Dioxane	1,800	5,500	1,800	670	U
142-82-5	n-Heptane	<b>380,000</b>	5,500	3,400	900	
108-10-1	4-Methyl-2-pentanone	1,800	11,000	1,800	770	U
108-88-3	Toluene	<b>45,000</b>	5,500	1,800	690	
591-78-6	2-Hexanone	1,800	11,000	1,800	700	U
124-48-1	Dibromochloromethane	1,800	5,500	1,800	740	U
106-93-4	1,2-Dibromoethane	1,800	5,500	1,800	660	U
127-18-4	Tetrachloroethene	1,800	5,500	1,800	730	U
100-41-4	Ethylbenzene	<b>930</b>	5,500	1,800	800	J
179601-23-1	m,p-Xylenes	<b>4,600</b>	11,000	3,600	1,500	J
75-25-2	Bromoform	3,400	5,600	3,400	1,200	U
100-42-5	Styrene	3,400	5,500	3,400	910	U
95-47-6	o-Xylene	<b>1,500</b>	5,600	1,800	820	J
108-67-8	1,3,5-Trimethylbenzene	1,800	5,600	1,800	820	U
95-63-6	1,2,4-Trimethylbenzene	1,800	5,500	1,800	780	U
120-82-1	1,2,4-Trichlorobenzene	3,400	11,000	3,400	1,400	U
91-20-3	Naphthalene	3,300	5,500	3,300	1,400	U
1330-20-7	Xylenes, Total	<b>6,200</b>	11,000	3,600	1,500	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV07-150-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
ALS Sample ID: P2005897-017

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
Analyst: Simon Cao  
Sampling Media: 1.0 L Silonite Summa Canister  
Test Notes:  
Container ID: 1SS00025

Date Collected: 10/13/20  
Date Received: 10/19/20  
Date Analyzed: 11/5/20  
Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.64 Final Pressure (psig): 6.61

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.8	1.7	0.69	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3.6	2.8	1.7	0.46	
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	U
75-01-4	Vinyl Chloride	0.90	2.8	0.90	0.30	U
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	U
64-17-5	Ethanol	4.7	28	4.4	2.0	J
67-64-1	Acetone	20	28	14	6.4	J
75-69-4	Trichlorofluoromethane	4.3	2.7	1.7	0.43	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.8	5.3	3.3	1.2	J
75-09-2	Methylene Chloride	1.7	2.8	1.7	0.80	U
76-13-1	Trichlorotrifluoroethane	26	2.8	0.90	0.40	
75-15-0	Carbon Disulfide	2.9	5.3	2.9	0.85	U
75-34-3	1,1-Dichloroethane	1.7	2.9	1.7	0.41	U
78-93-3	2-Butanone (MEK)	1.7	5.3	1.7	0.58	U
141-78-6	Ethyl Acetate	3.4	5.3	3.4	1.5	U, L
110-54-3	n-Hexane	54	2.8	1.7	0.58	
67-66-3	Chloroform	0.90	2.8	0.90	0.38	U
109-99-9	Tetrahydrofuran (THF)	2.1	5.3	0.90	0.36	J
107-06-2	1,2-Dichloroethane	0.90	2.8	0.90	0.31	U
71-43-2	Benzene	11	2.8	0.90	0.41	
56-23-5	Carbon Tetrachloride	6.3	2.7	0.90	0.39	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV07-150-204

ALS Project ID: P2005897

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005897-017

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00025

Initial Pressure (psig): -4.64 Final Pressure (psig): 6.61

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	60	5.3	1.8	0.80	
75-27-4	Bromodichloromethane	0.90	2.8	0.90	0.41	U
79-01-6	Trichloroethene	0.90	2.7	0.90	0.38	U
123-91-1	1,4-Dioxane	0.90	2.8	0.90	0.33	U
142-82-5	n-Heptane	120	2.8	1.7	0.45	
108-10-1	4-Methyl-2-pentanone	0.90	5.3	0.90	0.39	U
108-88-3	Toluene	40	2.8	0.90	0.34	
591-78-6	2-Hexanone	0.90	5.3	0.90	0.35	U
124-48-1	Dibromochloromethane	0.90	2.8	0.90	0.37	U
106-93-4	1,2-Dibromoethane	0.90	2.8	0.90	0.33	U
127-18-4	Tetrachloroethene	1.2	2.8	0.90	0.37	J
100-41-4	Ethylbenzene	2.4	2.8	0.90	0.40	J
179601-23-1	m,p-Xylenes	8.7	5.3	1.8	0.74	
75-25-2	Bromoform	1.7	2.8	1.7	0.58	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	2.4	2.8	0.90	0.41	J
108-67-8	1,3,5-Trimethylbenzene	0.64	2.8	0.90	0.41	J
95-63-6	1,2,4-Trimethylbenzene	0.92	2.8	0.90	0.39	J
120-82-1	1,2,4-Trichlorobenzene	1.7	5.3	1.7	0.69	U
91-20-3	Naphthalene	1.1	2.8	1.6	0.69	J
1330-20-7	Xylenes, Total	11	5.3	1.8	0.74	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV14-150-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-018

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:  
 Container ID: 1SS00260

Date Collected: 10/13/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.37 Final Pressure (psig): 6.11

Container Dilution Factor: 1.69

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.2	1.4	0.55	J
75-71-8	Dichlorodifluoromethane (CFC 12)	46	2.2	1.4	0.37	
74-87-3	Chloromethane	0.49	2.2	1.4	0.36	J
75-01-4	Vinyl Chloride	0.72	2.2	0.72	0.24	U
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.37	U
75-00-3	Chloroethane	1.4	2.2	1.4	0.28	U
64-17-5	Ethanol	26	22	3.5	1.6	
67-64-1	Acetone	23	22	11	5.1	
75-69-4	Trichlorofluoromethane	7.7	2.2	1.4	0.34	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.1	4.2	2.7	0.93	J
75-09-2	Methylene Chloride	1.5	2.2	1.4	0.63	J
76-13-1	Trichlorotrifluoroethane	150	2.2	0.72	0.32	
75-15-0	Carbon Disulfide	3.6	4.2	2.3	0.68	J
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.33	U
78-93-3	2-Butanone (MEK)	7.0	4.2	1.4	0.46	
141-78-6	Ethyl Acetate	180	4.2	2.7	1.2	L
110-54-3	n-Hexane	0.82	2.2	1.4	0.46	J
67-66-3	Chloroform	2.6	2.2	0.72	0.30	
109-99-9	Tetrahydrofuran (THF)	280	4.2	0.72	0.28	
107-06-2	1,2-Dichloroethane	0.72	2.2	0.72	0.25	U
71-43-2	Benzene	1.8	2.2	0.72	0.33	J
56-23-5	Carbon Tetrachloride	270	2.2	0.72	0.31	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00260

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.37 Final Pressure (psig): 6.11

Container Dilution Factor: 1.69

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>25</b>	4.2	1.4	0.63	
75-27-4	Bromodichloromethane	0.72	2.2	0.72	0.33	U
79-01-6	Trichloroethene	<b>190</b>	2.2	0.72	0.30	
123-91-1	1,4-Dioxane	0.72	2.2	0.72	0.27	U
142-82-5	n-Heptane	<b>1.7</b>	2.2	1.4	0.36	J
108-10-1	4-Methyl-2-pentanone	<b>0.71</b>	4.2	0.72	0.31	J
108-88-3	Toluene	<b>9.2</b>	2.2	0.72	0.27	
591-78-6	2-Hexanone	0.72	4.2	0.72	0.28	U
124-48-1	Dibromochloromethane	0.72	2.2	0.72	0.30	U
106-93-4	1,2-Dibromoethane	0.72	2.2	0.72	0.26	U
127-18-4	Tetrachloroethene	<b>81</b>	2.2	0.72	0.29	
100-41-4	Ethylbenzene	<b>0.88</b>	2.2	0.72	0.32	J
179601-23-1	m,p-Xylenes	<b>2.1</b>	4.2	1.4	0.59	J
75-25-2	Bromoform	1.4	2.2	1.4	0.46	U
100-42-5	Styrene	<b>0.52</b>	2.2	1.4	0.36	J
95-47-6	o-Xylene	<b>0.87</b>	2.2	0.72	0.33	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.47</b>	2.2	0.72	0.33	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.85</b>	2.2	0.72	0.31	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.2	1.4	0.55	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.55	U
1330-20-7	Xylenes, Total	<b>3.0</b>	4.2	1.4	0.59	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV14-250-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-019

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:  
 Container ID: 1SS00206

Date Collected: 10/13/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.30 Final Pressure (psig): 6.41

Container Dilution Factor: 2.03

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>1.1</b>	2.6	1.6	0.66	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>56</b>	2.6	1.6	0.44	
74-87-3	Chloromethane	<b>0.52</b>	2.6	1.6	0.44	<b>J</b>
75-01-4	Vinyl Chloride	0.86	2.7	0.86	0.29	<b>U</b>
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.45	<b>U</b>
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	<b>U</b>
64-17-5	Ethanol	<b>5.4</b>	27	4.2	1.9	<b>J</b>
67-64-1	Acetone	<b>27</b>	26	14	6.1	
75-69-4	Trichlorofluoromethane	<b>8.9</b>	2.6	1.6	0.41	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	5.1	3.2	1.1	<b>U</b>
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.76	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>160</b>	2.7	0.86	0.39	
75-15-0	Carbon Disulfide	<b>6.9</b>	5.1	2.7	0.81	
75-34-3	1,1-Dichloroethane	1.7	2.7	1.7	0.40	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>6.9</b>	5.1	1.6	0.56	
141-78-6	Ethyl Acetate	<b>2.7</b>	5.1	3.3	1.4	<b>J, L</b>
110-54-3	n-Hexane	1.6	2.6	1.6	0.56	<b>U</b>
67-66-3	Chloroform	<b>3.2</b>	2.7	0.86	0.36	
109-99-9	Tetrahydrofuran (THF)	<b>180</b>	5.1	0.86	0.34	
107-06-2	1,2-Dichloroethane	0.86	2.6	0.86	0.30	<b>U</b>
71-43-2	Benzene	<b>0.76</b>	2.6	0.86	0.39	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>320</b>	2.6	0.86	0.38	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-250-204

ALS Project ID: P2005897

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005897-019

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00206

Initial Pressure (psig): -4.30 Final Pressure (psig): 6.41

Container Dilution Factor: 2.03

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>3.8</b>	5.1	1.7	0.76	<b>J</b>
75-27-4	Bromodichloromethane	0.86	2.6	0.86	0.39	<b>U</b>
79-01-6	Trichloroethene	<b>260</b>	2.6	0.86	0.37	
123-91-1	1,4-Dioxane	0.86	2.6	0.86	0.32	<b>U</b>
142-82-5	n-Heptane	1.6	2.6	1.6	0.43	<b>U</b>
108-10-1	4-Methyl-2-pentanone	0.86	5.1	0.86	0.37	<b>U</b>
108-88-3	Toluene	<b>1.4</b>	2.6	0.86	0.33	<b>J</b>
591-78-6	2-Hexanone	0.86	5.1	0.86	0.33	<b>U</b>
124-48-1	Dibromochloromethane	0.86	2.6	0.86	0.36	<b>U</b>
106-93-4	1,2-Dibromoethane	0.86	2.6	0.86	0.31	<b>U</b>
127-18-4	Tetrachloroethene	<b>110</b>	2.6	0.86	0.35	
100-41-4	Ethylbenzene	0.86	2.6	0.86	0.38	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.82</b>	5.1	1.7	0.71	<b>J</b>
75-25-2	Bromoform	1.6	2.7	1.6	0.56	<b>U</b>
100-42-5	Styrene	1.6	2.6	1.6	0.44	<b>U</b>
95-47-6	o-Xylene	<b>0.39</b>	2.7	0.86	0.39	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.43</b>	2.7	0.86	0.39	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.64</b>	2.6	0.86	0.38	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.66	<b>U</b>
91-20-3	Naphthalene	1.6	2.6	1.6	0.66	<b>U</b>
1330-20-7	Xylenes, Total	<b>1.2</b>	5.1	1.7	0.71	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV14-350-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-020

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao/Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC01047

Date Collected: 10/13/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 0.40 Liter(s)  
 0.040 Liter(s)

Initial Pressure (psig): -2.65 Final Pressure (psig): 5.14

Container Dilution Factor: 1.65

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.2	2.1	1.3	0.54	J
75-71-8	Dichlorodifluoromethane (CFC 12)	660	21	13	3.6	D
74-87-3	Chloromethane	1.4	2.1	1.3	0.35	J
75-01-4	Vinyl Chloride	1.2	2.2	0.70	0.24	J
106-99-0	1,3-Butadiene	1.3	2.1	1.3	0.36	U
75-00-3	Chloroethane	1.3	2.1	1.3	0.27	U
64-17-5	Ethanol	4.0	22	3.4	1.5	J
67-64-1	Acetone	530	21	11	5.0	
75-69-4	Trichlorofluoromethane	56	2.1	1.3	0.33	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	4.1	2.6	0.91	J
75-09-2	Methylene Chloride	1.3	2.1	1.3	0.62	U
76-13-1	Trichlorotrifluoroethane	43	2.2	0.70	0.31	
75-15-0	Carbon Disulfide	15	4.1	2.2	0.66	
75-34-3	1,1-Dichloroethane	1.4	2.2	1.4	0.32	J
78-93-3	2-Butanone (MEK)	310	4.1	1.3	0.45	
141-78-6	Ethyl Acetate	2.7	4.1	2.7	1.2	U, L
110-54-3	n-Hexane	1.3	2.1	1.3	0.45	U
67-66-3	Chloroform	3.2	2.2	0.70	0.29	
109-99-9	Tetrahydrofuran (THF)	430	4.1	0.70	0.28	
107-06-2	1,2-Dichloroethane	0.70	2.1	0.70	0.24	U
71-43-2	Benzene	5.5	2.1	0.70	0.32	
56-23-5	Carbon Tetrachloride	60	2.1	0.70	0.31	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-350-204

ALS Project ID: P2005897

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005897-020

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao/Topacio De Leon

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SC01047

Initial Pressure (psig): -2.65 Final Pressure (psig): 5.14

Container Dilution Factor: 1.65

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.4	4.1	1.4	0.62	U
75-27-4	Bromodichloromethane	0.70	2.1	0.70	0.32	U
79-01-6	Trichloroethene	<b>180</b>	2.1	0.70	0.30	
123-91-1	1,4-Dioxane	0.70	2.1	0.70	0.26	U
142-82-5	n-Heptane	1.3	2.1	1.3	0.35	U
108-10-1	4-Methyl-2-pentanone	0.70	4.1	0.70	0.30	U
108-88-3	Toluene	<b>10</b>	2.1	0.70	0.27	
591-78-6	2-Hexanone	<b>0.54</b>	4.1	0.70	0.27	J
124-48-1	Dibromochloromethane	0.70	2.1	0.70	0.29	U
106-93-4	1,2-Dibromoethane	0.70	2.1	0.70	0.26	U
127-18-4	Tetrachloroethene	<b>43</b>	2.1	0.70	0.28	
100-41-4	Ethylbenzene	<b>0.62</b>	2.1	0.70	0.31	J
179601-23-1	m,p-Xylenes	<b>1.7</b>	4.1	1.4	0.58	J
75-25-2	Bromoform	1.3	2.2	1.3	0.45	U
100-42-5	Styrene	1.3	2.1	1.3	0.35	U
95-47-6	o-Xylene	<b>0.88</b>	2.2	0.70	0.32	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.39</b>	2.2	0.70	0.32	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.49</b>	2.1	0.70	0.31	J
120-82-1	1,2,4-Trichlorobenzene	1.3	4.1	1.3	0.54	U
91-20-3	Naphthalene	1.3	2.1	1.3	0.54	U
1330-20-7	Xylenes, Total	<b>2.6</b>	4.1	1.4	0.58	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV14-450-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-021

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:  
 Container ID: 1SS00045

Date Collected: 10/13/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.19 Final Pressure (psig): 6.81

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.86	2.7	1.6	0.67	J
75-71-8	Dichlorodifluoromethane (CFC 12)	12	2.7	1.6	0.45	
74-87-3	Chloromethane	1.6	2.7	1.6	0.44	U
75-01-4	Vinyl Chloride	1.4	2.7	0.87	0.29	J
106-99-0	1,3-Butadiene	1.6	2.7	1.6	0.45	U
75-00-3	Chloroethane	1.6	2.7	1.6	0.34	U
64-17-5	Ethanol	4.8	27	4.3	1.9	J
67-64-1	Acetone	28	27	14	6.2	
75-69-4	Trichlorofluoromethane	0.62	2.6	1.6	0.42	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	5.1	3.2	1.1	U
75-09-2	Methylene Chloride	1.6	2.7	1.6	0.77	U
76-13-1	Trichlorotrifluoroethane	0.58	2.7	0.87	0.39	J
75-15-0	Carbon Disulfide	4.2	5.1	2.8	0.82	J
75-34-3	1,1-Dichloroethane	1.7	2.8	1.7	0.40	U
78-93-3	2-Butanone (MEK)	7.7	5.1	1.6	0.56	
141-78-6	Ethyl Acetate	3.3	5.1	3.3	1.4	U, L
110-54-3	n-Hexane	1.6	2.7	1.6	0.56	U
67-66-3	Chloroform	0.87	2.7	0.87	0.36	U
109-99-9	Tetrahydrofuran (THF)	19	5.1	0.87	0.34	
107-06-2	1,2-Dichloroethane	0.87	2.7	0.87	0.30	U
71-43-2	Benzene	1.3	2.7	0.87	0.39	J
56-23-5	Carbon Tetrachloride	2.4	2.6	0.87	0.38	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-450-204

ALS Project ID: P2005897

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2005897-021

Test Code: EPA TO-15

Date Collected: 10/13/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/19/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00045

Initial Pressure (psig): -4.19 Final Pressure (psig): 6.81

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	5.1	1.7	0.77	U
75-27-4	Bromodichloromethane	0.87	2.7	0.87	0.39	U
79-01-6	Trichloroethene	<b>1.5</b>	2.6	0.87	0.37	J
123-91-1	1,4-Dioxane	0.87	2.7	0.87	0.32	U
142-82-5	n-Heptane	1.6	2.7	1.6	0.44	U
108-10-1	4-Methyl-2-pentanone	0.87	5.1	0.87	0.37	U
108-88-3	Toluene	<b>7.7</b>	2.7	0.87	0.33	J
591-78-6	2-Hexanone	0.87	5.1	0.87	0.34	U
124-48-1	Dibromochloromethane	0.87	2.7	0.87	0.36	U
106-93-4	1,2-Dibromoethane	0.87	2.7	0.87	0.32	U
127-18-4	Tetrachloroethene	<b>2.8</b>	2.7	0.87	0.35	J
100-41-4	Ethylbenzene	<b>0.80</b>	2.7	0.87	0.38	J
179601-23-1	m,p-Xylenes	<b>3.1</b>	5.1	1.7	0.72	J
75-25-2	Bromoform	1.6	2.7	1.6	0.56	U
100-42-5	Styrene	1.6	2.7	1.6	0.44	U
95-47-6	o-Xylene	<b>1.5</b>	2.7	0.87	0.39	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.40</b>	2.7	0.87	0.39	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.75</b>	2.7	0.87	0.38	J
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.67	U
91-20-3	Naphthalene	1.6	2.7	1.6	0.67	U
1330-20-7	Xylenes, Total	<b>4.5</b>	5.1	1.7	0.72	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV14-450-604  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-022

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:  
 Container ID: 1SS01104

Date Collected: 10/13/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.44 Final Pressure (psig): 6.31

Container Dilution Factor: 1.71

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.2	1.4	0.56	U
75-71-8	Dichlorodifluoromethane (CFC 12)	12	2.2	1.4	0.37	
74-87-3	Chloromethane	0.42	2.2	1.4	0.37	J
75-01-4	Vinyl Chloride	2.1	2.3	0.73	0.24	J
106-99-0	1,3-Butadiene	1.4	2.2	1.4	0.38	U
75-00-3	Chloroethane	1.4	2.2	1.4	0.28	U
64-17-5	Ethanol	2.0	23	3.5	1.6	J
67-64-1	Acetone	17	22	12	5.1	J
75-69-4	Trichlorofluoromethane	0.57	2.2	1.4	0.35	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.7	4.3	2.7	0.94	U
75-09-2	Methylene Chloride	1.4	2.2	1.4	0.64	U
76-13-1	Trichlorotrifluoroethane	0.55	2.3	0.73	0.32	J
75-15-0	Carbon Disulfide	6.9	4.3	2.3	0.68	
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.33	U
78-93-3	2-Butanone (MEK)	5.4	4.3	1.4	0.47	
141-78-6	Ethyl Acetate	2.8	4.3	2.8	1.2	U, L
110-54-3	n-Hexane	0.62	2.2	1.4	0.47	J
67-66-3	Chloroform	0.73	2.3	0.73	0.30	U
109-99-9	Tetrahydrofuran (THF)	29	4.3	0.73	0.29	
107-06-2	1,2-Dichloroethane	0.73	2.2	0.73	0.25	U
71-43-2	Benzene	1.5	2.2	0.73	0.33	J
56-23-5	Carbon Tetrachloride	2.4	2.2	0.73	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV14-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-022

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01104

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.44 Final Pressure (psig): 6.31

Container Dilution Factor: 1.71

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.3	1.5	0.64	U
75-27-4	Bromodichloromethane	0.73	2.2	0.73	0.33	U
79-01-6	Trichloroethene	1.6	2.2	0.73	0.31	J
123-91-1	1,4-Dioxane	0.73	2.2	0.73	0.27	U
142-82-5	n-Heptane	0.59	2.2	1.4	0.36	J
108-10-1	4-Methyl-2-pentanone	0.73	4.3	0.73	0.31	U
108-88-3	Toluene	4.2	2.2	0.73	0.28	U
591-78-6	2-Hexanone	0.73	4.3	0.73	0.28	U
124-48-1	Dibromochloromethane	0.73	2.2	0.73	0.30	U
106-93-4	1,2-Dibromoethane	0.73	2.2	0.73	0.27	U
127-18-4	Tetrachloroethene	2.8	2.2	0.73	0.29	U
100-41-4	Ethylbenzene	0.42	2.2	0.73	0.32	J
179601-23-1	m,p-Xylenes	1.5	4.3	1.5	0.60	J
75-25-2	Bromoform	1.4	2.3	1.4	0.47	U
100-42-5	Styrene	1.4	2.2	1.4	0.37	U
95-47-6	o-Xylene	0.52	2.3	0.73	0.33	J
108-67-8	1,3,5-Trimethylbenzene	0.36	2.3	0.73	0.33	J
95-63-6	1,2,4-Trimethylbenzene	0.65	2.2	0.73	0.32	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.3	1.4	0.56	U
91-20-3	Naphthalene	1.3	2.2	1.3	0.56	U
1330-20-7	Xylenes, Total	2.0	4.3	1.5	0.60	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SVTB204-02  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P2005897-023

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:  
 Container ID: 1SS00545

Date Collected: 10/13/20  
 Date Received: 10/19/20  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.80	1.3	0.80	0.33	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.80	1.3	0.80	0.22	U
74-87-3	Chloromethane	0.80	1.3	0.80	0.22	U
75-01-4	Vinyl Chloride	0.15	1.3	0.43	0.14	J
106-99-0	1,3-Butadiene	0.80	1.3	0.80	0.22	U
75-00-3	Chloroethane	0.80	1.3	0.80	0.17	U
64-17-5	Ethanol	1.7	13	2.1	0.93	J
67-64-1	Acetone	6.8	13	6.8	3.0	U
75-69-4	Trichlorofluoromethane	0.80	1.3	0.80	0.20	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	2.5	1.6	0.55	U
75-09-2	Methylene Chloride	0.80	1.3	0.80	0.38	U
76-13-1	Trichlorotrifluoroethane	0.43	1.3	0.43	0.19	U
75-15-0	Carbon Disulfide	1.4	2.5	1.4	0.40	U
75-34-3	1,1-Dichloroethane	0.83	1.4	0.83	0.20	U
78-93-3	2-Butanone (MEK)	0.56	2.5	0.80	0.28	J
141-78-6	Ethyl Acetate	1.6	2.5	1.6	0.70	U, L
110-54-3	n-Hexane	0.80	1.3	0.80	0.28	U
67-66-3	Chloroform	0.43	1.3	0.43	0.18	U
109-99-9	Tetrahydrofuran (THF)	0.43	2.5	0.43	0.17	U
107-06-2	1,2-Dichloroethane	0.43	1.3	0.43	0.15	U
71-43-2	Benzene	0.43	1.3	0.43	0.19	U
56-23-5	Carbon Tetrachloride	0.43	1.3	0.43	0.19	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVTB204-02**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P2005897-023

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00545

Date Collected: 10/13/20

Date Received: 10/19/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.85	2.5	0.85	0.38	U
75-27-4	Bromodichloromethane	0.43	1.3	0.43	0.19	U
79-01-6	Trichloroethene	0.43	1.3	0.43	0.18	U
123-91-1	1,4-Dioxane	0.43	1.3	0.43	0.16	U
142-82-5	n-Heptane	0.80	1.3	0.80	0.21	U
108-10-1	4-Methyl-2-pentanone	0.43	2.5	0.43	0.18	U
108-88-3	Toluene	0.43	1.3	0.43	0.16	U
591-78-6	2-Hexanone	0.43	2.5	0.43	0.17	U
124-48-1	Dibromochloromethane	0.43	1.3	0.43	0.18	U
106-93-4	1,2-Dibromoethane	0.43	1.3	0.43	0.16	U
127-18-4	Tetrachloroethene	0.43	1.3	0.43	0.17	U
100-41-4	Ethylbenzene	0.43	1.3	0.43	0.19	U
179601-23-1	m,p-Xylenes	0.85	2.5	0.85	0.35	U
75-25-2	Bromoform	0.80	1.3	0.80	0.28	U
100-42-5	Styrene	<b>0.26</b>	1.3	0.80	0.22	<b>J</b>
95-47-6	o-Xylene	0.43	1.3	0.43	0.19	U
108-67-8	1,3,5-Trimethylbenzene	0.43	1.3	0.43	0.19	U
95-63-6	1,2,4-Trimethylbenzene	0.43	1.3	0.43	0.19	U
120-82-1	1,2,4-Trichlorobenzene	0.80	2.5	0.80	0.33	U
91-20-3	Naphthalene	0.78	1.3	0.78	0.33	U
1330-20-7	Xylenes, Total	0.85	2.5	0.85	0.35	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** Method Blank**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

ALS Sample ID: P201103-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 11/3/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U, L
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201103-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201104-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U, L
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201104-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
**Analyst:** Simon Cao/Topacio De Leon  
**Sampling Media:** 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)  
**Test Notes:**

Date(s) Collected: 10/12 - 10/13/20

Date(s) Received: 10/19/20

Date(s) Analyzed: 11/3 - 11/5/20

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201103-MB	100	102	107	70-130	
Method Blank	P201104-MB	101	102	108	70-130	
Lab Control Sample	P201103-LCS	101	99	105	70-130	
Lab Control Sample	P201104-LCS	102	97	104	70-130	
Duplicate Lab Control Sample	P201103-DLCS	102	98	104	70-130	
Duplicate Lab Control Sample	P201104-DLCS	102	98	104	70-130	
SV139-050-204	P2005897-001	102	102	106	70-130	
SV139-050-604	P2005897-002	100	103	109	70-130	
SV139-150-204	P2005897-003	101	102	106	70-130	
SV139-250-204	P2005897-004	101	100	106	70-130	
SV139-350-204	P2005897-005	101	103	106	70-130	
SV139-450-204	P2005897-006	101	103	106	70-130	
SV140-025-204	P2005897-007	102	104	106	70-130	
SV140-050-204	P2005897-008	101	104	106	70-130	
SV140-150-204	P2005897-009	101	102	105	70-130	
SV140-250-204	P2005897-010	102	101	107	70-130	
SV140-350-204	P2005897-011	102	103	107	70-130	
SV140-450-604	P2005897-012	101	101	107	70-130	
SV140-450-204	P2005897-013	100	102	108	70-130	
SVE12-410-204	P2005897-014	101	101	108	70-130	
SV07-050-204	P2005897-015	101	99	106	70-130	
SV07-100-204	P2005897-016	102	100	104	70-130	
SV07-150-204	P2005897-017	101	98	105	70-130	
SV14-150-204	P2005897-018	103	101	107	70-130	
SV14-250-204	P2005897-019	103	100	107	70-130	
SV14-350-204	P2005897-020	102	99	108	70-130	
SV14-450-204	P2005897-021	102	100	108	70-130	
SV14-450-604	P2005897-022	104	101	108	70-130	
SVTB204-02	P2005897-023	103	100	107	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS µg/m <sup>3</sup>	LCS µg/m <sup>3</sup>	DLCS µg/m <sup>3</sup>	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
115-07-1	Propene	210	184	185	88	88	57-136	0	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	208	211	99	100	59-128	1	25	
74-87-3	Chloromethane	206	218	209	106	101	59-132	5	25	
75-01-4	Vinyl Chloride	208	214	213	103	102	64-127	1	25	
106-99-0	1,3-Butadiene	210	239	237	114	113	66-134	0.9	25	
75-00-3	Chloroethane	204	196	194	96	95	63-127	1	25	
64-17-5	Ethanol	998	887	887	89	89	59-125	0	25	
67-64-1	Acetone	1,030	917	911	89	88	58-128	1	25	
75-69-4	Trichlorofluoromethane	204	206	209	101	102	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	408	400	100	98	52-125	2	25	
75-09-2	Methylene Chloride	208	204	204	98	98	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	214	215	217	100	101	66-126	1	25	
75-15-0	Carbon Disulfide	428	426	425	100	99	57-134	1	25	
75-34-3	1,1-Dichloroethane	212	203	202	96	95	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	428	426	104	103	67-130	1	25	
141-78-6	Ethyl Acetate	422	556	551	132	131	65-128	0.8	25	L
110-54-3	n-Hexane	212	192	190	91	90	63-120	1	25	
67-66-3	Chloroform	214	208	208	97	97	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	400	392	392	98	98	64-123	0	25	
107-06-2	1,2-Dichloroethane	208	212	214	102	103	65-128	1	25	
71-43-2	Benzene	204	200	199	98	98	69-119	0	25	
56-23-5	Carbon Tetrachloride	210	209	209	100	100	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.  
 L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201103-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/3/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	407	404		<b>98</b>	<b>97</b>	70-117	1	25
75-27-4	Bromodichloromethane	210	215	215		<b>102</b>	<b>102</b>	72-128	0	25
79-01-6	Trichloroethene	206	204	203		<b>99</b>	<b>99</b>	71-123	0	25
123-91-1	1,4-Dioxane	208	219	216		<b>105</b>	<b>104</b>	71-122	1	25
142-82-5	n-Heptane	210	203	202		<b>97</b>	<b>96</b>	69-123	1	25
108-10-1	4-Methyl-2-pentanone	416	442	440		<b>106</b>	<b>106</b>	67-130	0	25
108-88-3	Toluene	206	201	200		<b>98</b>	<b>97</b>	66-119	1	25
591-78-6	2-Hexanone	404	440	436		<b>109</b>	<b>108</b>	62-128	0.9	25
124-48-1	Dibromochloromethane	210	229	228		<b>109</b>	<b>109</b>	70-130	0	25
106-93-4	1,2-Dibromoethane	208	222	222		<b>107</b>	<b>107</b>	74-122	0	25
127-18-4	Tetrachloroethene	206	211	209		<b>102</b>	<b>101</b>	66-124	1	25
100-41-4	Ethylbenzene	206	209	208		<b>101</b>	<b>101</b>	70-124	0	25
179601-23-1	m,p-Xylenes	412	419	419		<b>102</b>	<b>102</b>	61-134	0	25
75-25-2	Bromoform	208	238	237		<b>114</b>	<b>114</b>	66-139	0	25
100-42-5	Styrene	206	227	226		<b>110</b>	<b>110</b>	73-127	0	25
95-47-6	o-Xylene	206	210	210		<b>102</b>	<b>102</b>	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	206	208	210		<b>101</b>	<b>102</b>	67-130	1	25
95-63-6	1,2,4-Trimethylbenzene	204	209	211		<b>102</b>	<b>103</b>	66-132	1	25
120-82-1	1,2,4-Trichlorobenzene	388	380	401		<b>98</b>	<b>103</b>	55-142	5	25
91-20-3	Naphthalene	198	194	205		<b>98</b>	<b>104</b>	57-138	6	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201104-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	210	183	179	87	85	57-136	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	209	208	100	99	59-128	1	25	
74-87-3	Chloromethane	206	197	191	96	93	59-132	3	25	
75-01-4	Vinyl Chloride	208	214	211	103	101	64-127	2	25	
106-99-0	1,3-Butadiene	210	236	232	112	110	66-134	2	25	
75-00-3	Chloroethane	204	195	193	96	95	63-127	1	25	
64-17-5	Ethanol	998	886	883	89	88	59-125	1	25	
67-64-1	Acetone	1,030	911	900	88	87	58-128	1	25	
75-69-4	Trichlorofluoromethane	204	206	206	101	101	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	406	404	100	99	52-125	1	25	
75-09-2	Methylene Chloride	208	206	203	99	98	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	214	213	213	100	100	66-126	0	25	
75-15-0	Carbon Disulfide	428	423	418	99	98	57-134	1	25	
75-34-3	1,1-Dichloroethane	212	203	202	96	95	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	426	417	103	101	67-130	2	25	
141-78-6	Ethyl Acetate	422	554	543	131	129	65-128	2	25	L
110-54-3	n-Hexane	212	193	191	91	90	63-120	1	25	
67-66-3	Chloroform	214	208	207	97	97	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	400	392	392	98	98	64-123	0	25	
107-06-2	1,2-Dichloroethane	208	214	214	103	103	65-128	0	25	
71-43-2	Benzene	204	199	198	98	97	69-119	1	25	
56-23-5	Carbon Tetrachloride	210	208	208	99	99	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.  
 L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2005897  
 ALS Sample ID: P201104-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/4/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD RPD Limit	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	407	406		<b>98</b>	<b>98</b>	70-117	0	25
75-27-4	Bromodichloromethane	210	215	215		<b>102</b>	<b>102</b>	72-128	0	25
79-01-6	Trichloroethene	206	202	201		<b>98</b>	<b>98</b>	71-123	0	25
123-91-1	1,4-Dioxane	208	216	215		<b>104</b>	<b>103</b>	71-122	1	25
142-82-5	n-Heptane	210	203	201		<b>97</b>	<b>96</b>	69-123	1	25
108-10-1	4-Methyl-2-pentanone	416	441	439		<b>106</b>	<b>106</b>	67-130	0	25
108-88-3	Toluene	206	197	197		<b>96</b>	<b>96</b>	66-119	0	25
591-78-6	2-Hexanone	404	435	431		<b>108</b>	<b>107</b>	62-128	0.9	25
124-48-1	Dibromochloromethane	210	224	222		<b>107</b>	<b>106</b>	70-130	0.9	25
106-93-4	1,2-Dibromoethane	208	218	218		<b>105</b>	<b>105</b>	74-122	0	25
127-18-4	Tetrachloroethene	206	204	203		<b>99</b>	<b>99</b>	66-124	0	25
100-41-4	Ethylbenzene	206	204	205		<b>99</b>	<b>100</b>	70-124	1	25
179601-23-1	m,p-Xylenes	412	413	412		<b>100</b>	<b>100</b>	61-134	0	25
75-25-2	Bromoform	208	231	233		<b>111</b>	<b>112</b>	66-139	0.9	25
100-42-5	Styrene	206	221	221		<b>107</b>	<b>107</b>	73-127	0	25
95-47-6	o-Xylene	206	207	206		<b>100</b>	<b>100</b>	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	206	207	207		<b>100</b>	<b>100</b>	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	204	208	208		<b>102</b>	<b>102</b>	66-132	0	25
120-82-1	1,2,4-Trichlorobenzene	388	398	407		<b>103</b>	<b>105</b>	55-142	2	25
91-20-3	Naphthalene	198	203	211		<b>103</b>	<b>107</b>	57-138	4	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005897  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 11032029.D  
Analyst: Simon Cao Date Analyzed: 11/3/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 18:33  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	161781	9.16	690936	11.11	286458	15.45
<b>Upper Limit</b>	226493	9.49	967310	11.44	401041	15.78
<b>Lower Limit</b>	97069	8.83	414562	10.78	171875	15.12

Client Sample ID	IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
01 Method Blank	149103 9.13	633020 11.10	256407 15.45
02 Lab Control Sample	155730 9.16	665303 11.11	275937 15.45
03 Duplicate Lab Control Sample	153205 9.16	660426 11.11	276014 15.45
04 SV139-050-204	149883 9.13	646740 11.10	259350 15.45
05 SV139-050-604	152100 9.13	652646 11.10	258343 15.45
06 SV139-150-204	151932 9.13	653241 11.10	260672 15.45
07 SV139-350-204	154753 9.13	665108 11.10	263036 15.45
08 SV139-450-204	154345 9.13	662894 11.10	263099 15.45
09 SV140-025-204	155218 9.13	668030 11.10	263187 15.45
10 SV140-050-204	156726 9.13	671010 11.10	263860 15.45
11 SV140-150-204	154660 9.13	666528 11.10	265276 15.45
12 SV139-150-204 (Dilution)	153228 9.13	668410 11.10	269006 15.45
13 SV139-350-204 (Dilution)	153968 9.13	670455 11.10	267613 15.45
14 SV07-050-204	169132 9.13	737384 11.10	305859 15.45
15 SV139-250-204	156578 9.13	684779 11.11	281181 15.45
16 SV07-050-204 (Dilution)	166740 9.13	725363 11.10	295848 15.45
17 SV140-250-204	155469 9.13	674509 11.10	276484 15.45
18 SV140-450-604	160107 9.14	690447 11.11	282135 15.45
19 SV140-450-204	162248 9.14	691132 11.11	281103 15.45
20 SVE12-410-204	161071 9.13	694711 11.10	283355 15.45
21 SV140-350-204	158780 9.13	692456 11.10	277205 15.45

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2005897  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

**Internal Standard Area and RT Summary**

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 11042001.D  
Analyst: Simon Cao Date Analyzed: 11/4/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 16:43  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	175669	9.16	742936	11.11	314354	15.45
<b>Upper Limit</b>	245937	9.49	1040110	11.44	440096	15.78
<b>Lower Limit</b>	105401	8.83	445762	10.78	188612	15.12

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
01	Method Blank	159267	9.13	681760	11.10	278606	15.45
02	Lab Control Sample	166078	9.16	713792	11.11	302425	15.45
03	Duplicate Lab Control Sample	168096	9.16	718256	11.11	303976	15.45
04	SV07-100-204	167375	9.13	724631	11.10	299578	15.45
05	SV07-150-204	169945	9.13	729882	11.10	308403	15.45
06	SV14-150-204	166603	9.14	725431	11.11	299396	15.45
07	SV14-250-204	163327	9.13	708384	11.10	296332	15.45
08	SV14-350-204	167511	9.15	712788	11.11	301229	15.45
09	SV14-450-204	163526	9.13	694670	11.10	293125	15.45
10	SV14-450-604	164362	9.13	705244	11.10	294625	15.45
11	SVTB204-02	163659	9.13	701791	11.10	296795	15.45
12	SV14-350-204 (Dilution)	161921	9.13	695959	11.10	283085	15.45
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



2655 Park Center Dr., Suite A  
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[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

November 11, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 26, 2020. For your reference, these analyses have been assigned our service request number P2006066.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*Kate Kaneko*  
Nov 11, 2020, 3:19 pm

Kate Kaneko  
Project Manager

---

RIGHT SOLUTIONS | RIGHT PARTNER



2655 Park Center Dr., Suite A  
 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2006066

## CASE NARRATIVE

The samples were received intact under chain of custody on October 26, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

RIGHT SOLUTIONS | RIGHT PARTNER



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 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2006066

Date Received: 10/26/2020  
 Time Received: 09:45

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SV108-025-204	P2006066-001	Air	10/19/2020	08:28	1SS01029	-3.03	6.61	X
SV108-050-204	P2006066-002	Air	10/19/2020	08:40	1SC00884	-2.35	6.91	X
SV108-150-204	P2006066-003	Air	10/19/2020	08:44	1SC00977	-2.37	7.52	X
SV108-250-204	P2006066-004	Air	10/19/2020	08:48	1SS01015	-2.30	7.07	X
SV108-350-204	P2006066-005	Air	10/19/2020	08:54	1SS00228	-2.46	6.43	X
SV108-450-204	P2006066-007	Air	10/19/2020	09:06	1SS00908	-2.91	7.23	X
SV112-025-204	P2006066-008	Air	10/19/2020	12:28	1SC00114	-3.31	6.24	X
SV112-050-204	P2006066-009	Air	10/19/2020	12:32	1SS00862	-5.41	6.09	X
SV112-150-204	P2006066-010	Air	10/19/2020	12:36	1SS00081	-3.15	7.66	X
SV112-250-204	P2006066-011	Air	10/19/2020	12:39	1SC01067	-3.81	7.47	X
SV112-350-204	P2006066-012	Air	10/19/2020	12:42	1SS00707	-3.22	6.13	X
SV112-450-604	P2006066-013	Air	10/19/2020	12:52	1SC00141	-3.17	8.63	X
SV112-450-204	P2006066-014	Air	10/19/2020	12:52	1SS00966	-3.47	6.41	X
SV118-025-204	P2006066-015	Air	10/19/2020	09:50	1SS00123	-3.46	6.94	X
SV118-050-204	P2006066-016	Air	10/19/2020	09:53	1SC00670	-2.46	6.73	X
SV118-160-204	P2006066-017	Air	10/19/2020	09:57	1SC00144	-2.57	5.35	X
SV118-265-204	P2006066-018	Air	10/19/2020	10:00	1SS00595	-3.63	6.27	X
SV118-350-204	P2006066-019	Air	10/19/2020	10:04	1SS01012	-2.49	5.13	X
SV118-450-204	P2006066-020	Air	10/19/2020	10:13	1SC00008	-3.81	8.07	X



2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**Air - Chain of Custody Record & Analytical Service Request**

COC #: **COC-SV204-01**

Requested Turnaround Time in Business Days  
 10 Day-Standard

Project Name  
 Kirtland AFB Bulk Fuels Facility

Requested Turnaround Time in Business Days  
 10 Day-Standard

Company Name & Address (Reporting Information)  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

Project Manager / Project Chemist  
 Devon Jercanovic (505) 715-4248 / Pam Moss (303) 590-9143

Project Number  
 62735DM02

Project Name  
 Kirtland AFB Bulk Fuels Facility

Project Number  
 62735DM02

P.O. # / Billing Information  
 17682

Sampler (Print & Sign)  
*Amy Rosebrough*

Tara Lamond:  
[tiamond@eaest.com](mailto:tiamond@eaest.com)

Amanda Smith:  
[asmith@eaest.com](mailto:asmith@eaest.com)

Pam Moss:  
[pmoss@eaest.com](mailto:pmoss@eaest.com)

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hgpsig	Sample Volume	Comments e.g. Actual Preservative or specific instructions
SV108-025-204		10/19/2020	0828	1SS01029	NA	-25.0	-2.0	1L	None
SV108-050-204		10/19/2020	0840	1SC00884	NA	-26.0	-0.5	1L	None
SV108-150-204		10/19/2020	0844	1SC00877	NA	-24.0	-0.5	1L	None
SV108-250-204		10/19/2020	0848	1SS01015	NA	-25.0	0.0	1L	None
SV108-350-204		10/19/2020	0854	1SS00228	NA	-26.5	-2.5	1L	None
SV108-350-604		10/19/2020	0854	1SS01010	NA	-27.0	-2.5	1L	None
SV108-450-204		10/19/2020	0906	1SS00908	NA	-26.0	-2.0	1L	None
SV112-025-204		10/19/2020	1228	1SC00114	NA	-26.0	-2.5	1L	None
SV112-050-204		10/19/2020	1232	1SS00862	NA	-25.0	-5.0	1L	None
SV112-150-204		10/19/2020	1238	1SS00081	NA	-24.0	-2.5	1L	None

FedEx Tracking Number: **1028 3402 6290**

Shipping information: Box number **1** of **5**

Report Tier Levels - please select  
 Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) \_\_\_\_\_  
 Date: **10/21/20** Time: **1300**

Relinquished by: (Signature) \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Chain of Custody Seat: (Circle)  
 INTACT  BROKEN  ABSENT

Project Requirements: QAPP

Cooler / Blank Temperature NA °C

1 2 3 4 5 6 7 8 9 10



# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-02**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
**P2006066**

ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Project Name: **Kirtland AFB Bulk Fuels Facility**

Project Number: **62735DM02**

P.O. # / Billing Information: **17682**

Sampler (Print & Sign): *Amy Rosebrough*

Company Name & Address (Reporting Information):  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 564-7000

Project Manager / Project Chemist:  
 Devon Jercinovic (605) 715-4248 / Pam Moss (303) 590-9143

Email Address for Result Reporting:  
 Tara Lamond: [tiamond@eaest.com](mailto:tiamond@eaest.com)  
 Amanda Smith: [asmith@eaest.com](mailto:asmith@eaest.com)  
 Pam Moss: [pmoss@eaest.com](mailto:pmoss@eaest.com)

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments e.g. Actual Preservative or specific instructions
SV112-250-204		10/19/2020	1239	1SC01067	NA	-24.0	-1.5	1L	X
SV112-350-204		10/19/2020	1242	1SS00707	NA	-25.0	-1.0	1L	X
SV112-450-804		10/19/2020	1252	1SC00141	NA	-25.0	-1.0	1L	X
SV112-450-204		10/19/2020	1252	1SS00666	NA	-25.0	-1.5	1L	X
SV118-025-204		10/19/2020	0950	1SS00123	NA	-23.0	-1.0	1L	X
SV118-050-204		10/19/2020	0953	1SC00670	NA	-24.0	0.0	1L	X
SV118-160-204		10/19/2020	0957	1SC00144	NA	-24.0	-0.5	1L	X
SV118-265-204		10/19/2020	1000	1SS01012	NA	-24.0	0.0	1L	X
SV118-350-204		10/19/2020	1004	1SS00595	NA	-23.0	-0.5	1L	X
SV118-450-204		10/19/2020	1013	1SC00008	NA	-24.0	-2.5	1L	X

FedEX Tracking Number: **1028 3402 6290**

Shipping information: Box number **1** of **5**

Report Tier Levels - please select  
 Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) \_\_\_\_\_  
 Date: **10/21/20** Time: **1300**

Relinquished by: (Signature) \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_  
 Date: **10/26/20** Time: **0845**

Received by: (Signature) \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Chain of Custody Seal: (Circle)  
 INTACT  BROKEN  ABSENT

Project Requirements: QAPP

Cooler / Blank Temperature NA °C

Associated with Trip blank: SVTB204-03

TO-15 Project Specific List

Analysis Method

11  
12  
13  
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20

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2006066  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/26/20 Date opened: 10/26/20 by: MBERGKAMP

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? <u>Side of box</u> Sealing Lid?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2006066-001.01	1.0 L Source Silonite Canister					
P2006066-002.01	1.0 L Source Can					
P2006066-003.01	1.0 L Source Can					
P2006066-004.01	1.0 L Source Silonite Canister					
P2006066-005.01	1.0 L Source Silonite Canister					
P2006066-006.01	1.0 L Source Silonite Canister					
P2006066-007.01	1.0 L Source Silonite Canister					
P2006066-008.01	1.0 L Source Can					
P2006066-009.01	1.0 L Source Silonite Canister					
P2006066-010.01	1.0 L Source Silonite Canister					
P2006066-011.01	1.0 L Source Can					
P2006066-012.01	1.0 L Source Silonite Canister					
P2006066-013.01	1.0 L Source Can					
P2006066-014.01	1.0 L Source Silonite Canister					
P2006066-015.01	1.0 L Source Silonite Canister					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01029

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.03 Final Pressure (psig): 6.61

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.85	1.4	0.85	0.35	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.72</b>	0.48	0.30	0.081	
74-87-3	Chloromethane	0.71	1.2	0.71	0.19	U
75-01-4	Vinyl Chloride	0.30	0.95	0.30	0.10	U
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	0.56	0.90	0.56	0.11	U
64-17-5	Ethanol	2.0	13	2.0	0.90	U
67-64-1	Acetone	<b>10</b>	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	<b>0.31</b>	0.42	0.26	0.066	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.69	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	<b>13</b>	0.32	0.10	0.045	
75-15-0	Carbon Disulfide	0.79	1.5	0.79	0.24	U
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	0.50	1.6	0.50	0.17	U
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	U
110-54-3	n-Hexane	<b>0.16</b>	0.68	0.42	0.14	J
67-66-3	Chloroform	<b>0.10</b>	0.50	0.16	0.067	J
109-99-9	Tetrahydrofuran (THF)	0.26	1.6	0.26	0.10	U
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	<b>0.16</b>	0.74	0.24	0.11	J
56-23-5	Carbon Tetrachloride	<b>1.4</b>	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01029

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.03 Final Pressure (psig): 6.61

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1.0</b>	1.3	0.45	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	<b>U</b>
79-01-6	Trichloroethene	0.14	0.43	0.14	0.061	<b>U</b>
123-91-1	1,4-Dioxane	0.22	0.66	0.22	0.080	<b>U</b>
142-82-5	n-Heptane	<b>0.19</b>	0.58	0.36	0.095	<b>J</b>
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.082	<b>U</b>
108-88-3	Toluene	<b>0.43</b>	0.63	0.21	0.079	<b>J</b>
591-78-6	2-Hexanone	0.19	1.1	0.19	0.074	<b>U</b>
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.038	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.21</b>	0.35	0.11	0.047	<b>J</b>
100-41-4	Ethylbenzene	0.18	0.55	0.18	0.079	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.38</b>	1.1	0.36	0.15	<b>J</b>
75-25-2	Bromoform	0.14	0.23	0.14	0.049	<b>U</b>
100-42-5	Styrene	0.34	0.56	0.34	0.092	<b>U</b>
95-47-6	o-Xylene	<b>0.12</b>	0.56	0.18	0.081	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.11</b>	0.49	0.16	0.072	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.61</b>	0.48	0.16	0.069	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.080	<b>U</b>
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.50</b>	1.1	0.36	0.15	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00884

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.35 Final Pressure (psig): 6.91

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.2	1.3	0.81	0.33	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	0.46	0.28	0.077	
74-87-3	Chloromethane	0.68	1.1	0.68	0.18	U
75-01-4	Vinyl Chloride	0.29	0.91	0.29	0.098	U
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	U
75-00-3	Chloroethane	0.53	0.86	0.53	0.11	U
64-17-5	Ethanol	2.1	12	1.9	0.86	J
67-64-1	Acetone	9.4	9.6	5.0	2.2	J
75-69-4	Trichlorofluoromethane	0.68	0.40	0.25	0.063	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.39	U
75-09-2	Methylene Chloride	0.40	0.66	0.40	0.19	U
76-13-1	Trichlorotrifluoroethane	41	0.30	0.097	0.043	
75-15-0	Carbon Disulfide	0.83	1.4	0.76	0.22	J
75-34-3	1,1-Dichloroethane	0.36	0.58	0.36	0.084	U
78-93-3	2-Butanone (MEK)	0.47	1.5	0.47	0.16	U
141-78-6	Ethyl Acetate	0.79	1.2	0.79	0.34	U
110-54-3	n-Hexane	0.43	0.65	0.40	0.14	J
67-66-3	Chloroform	0.49	0.48	0.15	0.064	
109-99-9	Tetrahydrofuran (THF)	0.25	1.5	0.25	0.099	U
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.064	U
71-43-2	Benzene	0.23	0.71	0.23	0.11	U
56-23-5	Carbon Tetrachloride	5.2	0.35	0.12	0.051	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00884

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.35 Final Pressure (psig): 6.91

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	4.7	1.3	0.43	0.19	
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.050	U
79-01-6	Trichloroethene	0.10	0.42	0.14	0.059	J
123-91-1	1,4-Dioxane	0.21	0.63	0.21	0.077	U
142-82-5	n-Heptane	0.34	0.56	0.34	0.091	U
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.078	U
108-88-3	Toluene	0.11	0.60	0.20	0.075	J
591-78-6	2-Hexanone	0.18	1.1	0.18	0.071	U
124-48-1	Dibromochloromethane	0.087	0.27	0.087	0.036	U
106-93-4	1,2-Dibromoethane	0.097	0.30	0.097	0.035	U
127-18-4	Tetrachloroethene	0.58	0.34	0.11	0.045	
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.076	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.14	0.22	0.14	0.047	U
100-42-5	Styrene	0.33	0.53	0.33	0.088	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.078	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.47	0.15	0.069	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.46	0.15	0.066	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.59	0.19	0.077	U
91-20-3	Naphthalene	0.26	0.43	0.26	0.11	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00977

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.00050 Liter(s)

Initial Pressure (psig): -2.37 Final Pressure (psig): 7.52

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2,000	1,100	670	270	
75-71-8	Dichlorodifluoromethane (CFC 12)	230	380	230	63	U
74-87-3	Chloromethane	560	910	560	150	U
75-01-4	Vinyl Chloride	240	750	240	80	U
106-99-0	1,3-Butadiene	520	850	520	140	U
75-00-3	Chloroethane	440	710	440	90	U
64-17-5	Ethanol	1,600	10,000	1,600	710	U
67-64-1	Acetone	4,100	7,900	4,100	1,800	U
75-69-4	Trichlorofluoromethane	210	330	210	52	U
67-63-0	2-Propanol (Isopropyl Alcohol)	920	1,500	920	320	U
75-09-2	Methylene Chloride	330	540	330	160	U
76-13-1	Trichlorotrifluoroethane	63	250	80	36	J
75-15-0	Carbon Disulfide	620	1,200	620	190	U
75-34-3	1,1-Dichloroethane	290	480	290	69	U
78-93-3	2-Butanone (MEK)	390	1,200	390	130	U
141-78-6	Ethyl Acetate	650	1,000	650	280	U
110-54-3	n-Hexane	63,000	530	330	110	
67-66-3	Chloroform	130	390	130	52	U
109-99-9	Tetrahydrofuran (THF)	210	1,200	210	82	U
107-06-2	1,2-Dichloroethane	150	460	150	52	U
71-43-2	Benzene	560	590	190	87	J
56-23-5	Carbon Tetrachloride	97	290	97	42	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00977

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.00050 Liter(s)

Initial Pressure (psig): -2.37 Final Pressure (psig): 7.52

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>72,000</b>	1,000	360	160	
75-27-4	Bromodichloromethane	91	280	91	41	U
79-01-6	Trichloroethene	<b>87</b>	340	110	48	J
123-91-1	1,4-Dioxane	170	520	170	63	U
142-82-5	n-Heptane	<b>17,000</b>	460	280	75	
108-10-1	4-Methyl-2-pentanone	150	880	150	64	U
108-88-3	Toluene	<b>260</b>	500	160	62	J
591-78-6	2-Hexanone	150	880	150	58	U
124-48-1	Dibromochloromethane	72	220	72	30	U
106-93-4	1,2-Dibromoethane	80	240	80	29	U
127-18-4	Tetrachloroethene	<b>180</b>	280	90	37	J
100-41-4	Ethylbenzene	140	430	140	62	U
179601-23-1	m,p-Xylenes	280	830	280	120	U
75-25-2	Bromoform	110	180	110	38	U
100-42-5	Styrene	270	440	270	73	U
95-47-6	o-Xylene	<b>74</b>	440	140	64	J
108-67-8	1,3,5-Trimethylbenzene	120	390	120	56	U
95-63-6	1,2,4-Trimethylbenzene	120	380	120	54	U
120-82-1	1,2,4-Trichlorobenzene	160	490	160	63	U
91-20-3	Naphthalene	210	360	210	89	U
1330-20-7	Xylenes, Total	280	830	280	120	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01015

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -2.30 Final Pressure (psig): 7.07

Container Dilution Factor: 1.76

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	4,200	2,700	1,600	660	
75-71-8	Dichlorodifluoromethane (CFC 12)	570	930	570	150	U
74-87-3	Chloromethane	1,400	2,200	1,400	370	U
75-01-4	Vinyl Chloride	590	1,800	590	200	U
106-99-0	1,3-Butadiene	1,300	2,100	1,300	350	U
75-00-3	Chloroethane	1,100	1,700	1,100	220	U
64-17-5	Ethanol	3,900	25,000	3,900	1,700	U
67-64-1	Acetone	10,000	19,000	10,000	4,400	U
75-69-4	Trichlorofluoromethane	500	800	500	130	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,300	3,600	2,300	790	U
75-09-2	Methylene Chloride	810	1,300	810	380	U
76-13-1	Trichlorotrifluoroethane	200	610	200	87	U
75-15-0	Carbon Disulfide	1,500	2,800	1,500	450	U
75-34-3	1,1-Dichloroethane	720	1,200	720	170	U
78-93-3	2-Butanone (MEK)	960	3,000	960	330	U
141-78-6	Ethyl Acetate	1,600	2,400	1,600	680	U
110-54-3	n-Hexane	180,000	1,300	800	270	
67-66-3	Chloroform	310	960	310	130	U
109-99-9	Tetrahydrofuran (THF)	510	3,000	510	200	U
107-06-2	1,2-Dichloroethane	370	1,100	370	130	U
71-43-2	Benzene	1,600	1,400	470	210	
56-23-5	Carbon Tetrachloride	240	710	240	100	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-004

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00020 Liter(s)

Test Notes:

Container ID: 1SS01015

Initial Pressure (psig): -2.30 Final Pressure (psig): 7.07

Container Dilution Factor: 1.76

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>210,000</b>	2,600	870	380	
75-27-4	Bromodichloromethane	220	680	220	100	U
79-01-6	Trichloroethene	280	840	280	120	U
123-91-1	1,4-Dioxane	420	1,300	420	150	U
142-82-5	n-Heptane	<b>56,000</b>	1,100	690	180	
108-10-1	4-Methyl-2-pentanone	370	2,100	370	160	U
108-88-3	Toluene	400	1,200	400	150	U
591-78-6	2-Hexanone	370	2,100	370	140	U
124-48-1	Dibromochloromethane	180	540	180	72	U
106-93-4	1,2-Dibromoethane	190	600	190	71	U
127-18-4	Tetrachloroethene	<b>200</b>	680	220	90	J
100-41-4	Ethylbenzene	340	1,100	340	150	U
179601-23-1	m,p-Xylenes	690	2,000	690	280	U
75-25-2	Bromoform	270	450	270	94	U
100-42-5	Styrene	660	1,100	660	180	U
95-47-6	o-Xylene	<b>250</b>	1,100	340	160	J
108-67-8	1,3,5-Trimethylbenzene	300	950	300	140	U
95-63-6	1,2,4-Trimethylbenzene	300	930	300	130	U
120-82-1	1,2,4-Trichlorobenzene	380	1,200	380	150	U
91-20-3	Naphthalene	520	870	520	220	U
1330-20-7	Xylenes, Total	690	2,000	690	280	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00228

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.10 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 6.43

Container Dilution Factor: 1.73

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	13	5.2	3.2	1.3	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.8	1.8	1.1	0.30	J
74-87-3	Chloromethane	2.7	4.4	2.7	0.72	U
75-01-4	Vinyl Chloride	1.2	3.6	1.2	0.39	U
106-99-0	1,3-Butadiene	2.5	4.1	2.5	0.69	U
75-00-3	Chloroethane	2.1	3.4	2.1	0.43	U
64-17-5	Ethanol	7.6	49	7.6	3.4	U
67-64-1	Acetone	20	38	20	8.7	U
75-69-4	Trichlorofluoromethane	3.4	1.6	0.99	0.25	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.4	7.0	4.4	1.5	U
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.75	U
76-13-1	Trichlorotrifluoroethane	300	3.0	0.96	0.43	D
75-15-0	Carbon Disulfide	5.9	5.6	3.0	0.89	
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.33	U
78-93-3	2-Butanone (MEK)	1.9	5.9	1.9	0.65	U
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	36	2.6	1.6	0.54	
67-66-3	Chloroform	1.8	1.9	0.60	0.25	J
109-99-9	Tetrahydrofuran (THF)	1.7	5.9	1.0	0.39	J
107-06-2	1,2-Dichloroethane	0.73	2.2	0.73	0.25	U
71-43-2	Benzene	1.1	2.8	0.92	0.42	J
56-23-5	Carbon Tetrachloride	13	1.4	0.47	0.20	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00228

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.10 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 6.43

Container Dilution Factor: 1.73

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>260</b>	5.0	1.7	0.75	
75-27-4	Bromodichloromethane	0.44	1.3	0.44	0.20	U
79-01-6	Trichloroethene	<b>1.2</b>	1.6	0.55	0.23	J
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.30	U
142-82-5	n-Heptane	<b>5.7</b>	2.2	1.4	0.36	
108-10-1	4-Methyl-2-pentanone	0.72	4.2	0.72	0.31	U
108-88-3	Toluene	<b>1.4</b>	2.4	0.78	0.30	J
591-78-6	2-Hexanone	0.72	4.2	0.72	0.28	U
124-48-1	Dibromochloromethane	0.35	1.1	0.35	0.14	U
106-93-4	1,2-Dibromoethane	0.38	1.2	0.38	0.14	U
127-18-4	Tetrachloroethene	<b>2.6</b>	1.3	0.43	0.18	
100-41-4	Ethylbenzene	0.68	2.1	0.68	0.30	U
179601-23-1	m,p-Xylenes	1.4	4.0	1.4	0.56	U
75-25-2	Bromoform	0.54	0.89	0.54	0.18	U
100-42-5	Styrene	1.3	2.1	1.3	0.35	U
95-47-6	o-Xylene	<b>0.71</b>	2.1	0.68	0.31	J
108-67-8	1,3,5-Trimethylbenzene	0.60	1.9	0.60	0.27	U
95-63-6	1,2,4-Trimethylbenzene	0.60	1.8	0.60	0.26	U
120-82-1	1,2,4-Trichlorobenzene	0.75	2.3	0.75	0.30	U
91-20-3	Naphthalene	1.0	1.7	1.0	0.43	U
1330-20-7	Xylenes, Total	<b>0.71</b>	4.0	1.4	0.56	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00908

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.91 Final Pressure (psig): 7.23

Container Dilution Factor: 1.86

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3.0	1.4	0.86	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.44	0.49	0.30	0.082	J
74-87-3	Chloromethane	6.0	1.2	0.72	0.19	
75-01-4	Vinyl Chloride	3.0	0.96	0.31	0.10	
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.19	U
75-00-3	Chloroethane	2.3	0.92	0.56	0.12	
64-17-5	Ethanol	6.6	13	2.0	0.91	J
67-64-1	Acetone	10	10	5.3	2.3	J
75-69-4	Trichlorofluoromethane	0.23	0.42	0.26	0.067	J
67-63-0	2-Propanol (Isopropyl Alcohol)	0.49	1.9	1.2	0.42	J
75-09-2	Methylene Chloride	0.25	0.70	0.43	0.20	J
76-13-1	Trichlorotrifluoroethane	13	0.32	0.10	0.046	
75-15-0	Carbon Disulfide	25	1.5	0.81	0.24	
75-34-3	1,1-Dichloroethane	1.1	0.62	0.38	0.090	
78-93-3	2-Butanone (MEK)	2.0	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	1.3	1.3	0.84	0.36	
110-54-3	n-Hexane	12	0.69	0.42	0.15	
67-66-3	Chloroform	0.19	0.50	0.16	0.068	J
109-99-9	Tetrahydrofuran (THF)	8.8	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.59	0.60	0.20	0.068	J
71-43-2	Benzene	10	0.76	0.25	0.11	
56-23-5	Carbon Tetrachloride	1.8	0.38	0.13	0.055	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-007

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00908

Initial Pressure (psig): -2.91 Final Pressure (psig): 7.23

Container Dilution Factor: 1.86

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	18	1.4	0.46	0.20	
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	U
79-01-6	Trichloroethene	0.17	0.44	0.15	0.062	J
123-91-1	1,4-Dioxane	0.30	0.67	0.22	0.081	J
142-82-5	n-Heptane	2.0	0.59	0.36	0.096	
108-10-1	4-Methyl-2-pentanone	0.76	1.1	0.19	0.083	J
108-88-3	Toluene	19	0.64	0.21	0.080	
591-78-6	2-Hexanone	0.19	1.1	0.19	0.075	U
124-48-1	Dibromochloromethane	0.093	0.28	0.093	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.038	U
127-18-4	Tetrachloroethene	0.96	0.36	0.12	0.047	
100-41-4	Ethylbenzene	0.084	0.56	0.18	0.080	J
179601-23-1	m,p-Xylenes	0.21	1.1	0.36	0.15	J
75-25-2	Bromoform	0.14	0.24	0.14	0.049	U
100-42-5	Styrene	0.35	0.57	0.35	0.094	U
95-47-6	o-Xylene	0.18	0.57	0.18	0.082	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.50	0.16	0.073	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.49	0.16	0.070	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.081	U
91-20-3	Naphthalene	0.28	0.46	0.28	0.12	U
1330-20-7	Xylenes, Total	0.21	1.1	0.36	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00114

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.31 Final Pressure (psig): 6.24

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.91	1.4	0.86	0.35	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.48	0.30	0.081	
74-87-3	Chloromethane	0.71	1.2	0.71	0.19	U
75-01-4	Vinyl Chloride	0.31	0.95	0.31	0.10	U
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.18	U
75-00-3	Chloroethane	0.56	0.91	0.56	0.12	U
64-17-5	Ethanol	6.2	13	2.0	0.90	J
67-64-1	Acetone	19	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	0.51	0.42	0.26	0.066	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	0.21	0.69	0.42	0.20	J
76-13-1	Trichlorotrifluoroethane	2.8	0.32	0.10	0.046	
75-15-0	Carbon Disulfide	1.2	1.5	0.80	0.24	J
75-34-3	1,1-Dichloroethane	0.38	0.61	0.38	0.089	U
78-93-3	2-Butanone (MEK)	2.8	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	U
110-54-3	n-Hexane	0.17	0.68	0.42	0.14	J
67-66-3	Chloroform	3.1	0.50	0.16	0.067	
109-99-9	Tetrahydrofuran (THF)	1.2	1.6	0.27	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	0.14	0.75	0.24	0.11	J
56-23-5	Carbon Tetrachloride	1.5	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00114

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.31 Final Pressure (psig): 6.24

Container Dilution Factor: 1.84

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	U
79-01-6	Trichloroethene	0.15	0.44	0.15	0.062	U
123-91-1	1,4-Dioxane	<b>0.20</b>	0.66	0.22	0.080	J
142-82-5	n-Heptane	<b>0.14</b>	0.58	0.36	0.095	J
108-10-1	4-Methyl-2-pentanone	<b>0.10</b>	1.1	0.19	0.082	J
108-88-3	Toluene	<b>0.36</b>	0.63	0.21	0.079	J
591-78-6	2-Hexanone	<b>0.28</b>	1.1	0.19	0.074	J
124-48-1	Dibromochloromethane	0.092	0.28	0.092	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.25</b>	0.35	0.12	0.047	J
100-41-4	Ethylbenzene	0.18	0.55	0.18	0.079	U
179601-23-1	m,p-Xylenes	<b>0.29</b>	1.1	0.36	0.15	J
75-25-2	Bromoform	0.14	0.24	0.14	0.049	U
100-42-5	Styrene	0.35	0.56	0.35	0.093	U
95-47-6	o-Xylene	<b>0.11</b>	0.56	0.18	0.082	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.078</b>	0.50	0.16	0.072	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.34</b>	0.49	0.16	0.069	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.081	U
91-20-3	Naphthalene	0.27	0.46	0.27	0.11	U
1330-20-7	Xylenes, Total	<b>0.39</b>	1.1	0.36	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00862

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -5.41 Final Pressure (psig): 6.09

Container Dilution Factor: 2.24

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.0	1.7	1.0	0.42	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	0.59	0.36	0.099	
74-87-3	Chloromethane	0.87	1.4	0.87	0.23	U
75-01-4	Vinyl Chloride	0.37	1.2	0.37	0.12	U
106-99-0	1,3-Butadiene	0.81	1.3	0.81	0.22	U
75-00-3	Chloroethane	0.68	1.1	0.68	0.14	U
64-17-5	Ethanol	2.8	16	2.5	1.1	J
67-64-1	Acetone	7.4	12	6.4	2.8	J
75-69-4	Trichlorofluoromethane	0.63	0.51	0.32	0.081	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.3	1.4	0.50	U
75-09-2	Methylene Chloride	0.52	0.84	0.52	0.24	U
76-13-1	Trichlorotrifluoroethane	4.0	0.39	0.12	0.056	
75-15-0	Carbon Disulfide	0.92	1.8	0.97	0.29	J
75-34-3	1,1-Dichloroethane	0.46	0.75	0.46	0.11	U
78-93-3	2-Butanone (MEK)	2.3	1.9	0.61	0.21	
141-78-6	Ethyl Acetate	1.0	1.6	1.0	0.44	U
110-54-3	n-Hexane	0.51	0.83	0.51	0.17	U
67-66-3	Chloroform	4.4	0.61	0.20	0.081	
109-99-9	Tetrahydrofuran (THF)	2.7	1.9	0.32	0.13	
107-06-2	1,2-Dichloroethane	0.24	0.72	0.24	0.082	U
71-43-2	Benzene	0.15	0.91	0.30	0.14	J
56-23-5	Carbon Tetrachloride	2.0	0.45	0.15	0.066	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-009

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Simon Cao

Date Analyzed: 11/6/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00862

Initial Pressure (psig): -5.41 Final Pressure (psig): 6.09

Container Dilution Factor: 2.24

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.55	1.6	0.55	0.24	U
75-27-4	Bromodichloromethane	0.14	0.43	0.14	0.064	U
79-01-6	Trichloroethene	<b>0.16</b>	0.53	0.18	0.075	J
123-91-1	1,4-Dioxane	<b>0.11</b>	0.81	0.26	0.098	J
142-82-5	n-Heptane	0.44	0.71	0.44	0.12	U
108-10-1	4-Methyl-2-pentanone	0.23	1.4	0.23	0.10	U
108-88-3	Toluene	<b>0.58</b>	0.77	0.25	0.097	J
591-78-6	2-Hexanone	0.23	1.4	0.23	0.090	U
124-48-1	Dibromochloromethane	0.11	0.34	0.11	0.046	U
106-93-4	1,2-Dibromoethane	0.12	0.38	0.12	0.045	U
127-18-4	Tetrachloroethene	<b>0.39</b>	0.43	0.14	0.057	J
100-41-4	Ethylbenzene	<b>0.11</b>	0.67	0.22	0.097	J
179601-23-1	m,p-Xylenes	<b>0.35</b>	1.3	0.44	0.18	J
75-25-2	Bromoform	0.17	0.29	0.17	0.060	U
100-42-5	Styrene	0.42	0.68	0.42	0.11	U
95-47-6	o-Xylene	<b>0.16</b>	0.68	0.22	0.099	J
108-67-8	1,3,5-Trimethylbenzene	0.19	0.60	0.19	0.088	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.11</b>	0.59	0.19	0.084	J
120-82-1	1,2,4-Trichlorobenzene	0.24	0.75	0.24	0.098	U
91-20-3	Naphthalene	0.33	0.56	0.33	0.14	U
1330-20-7	Xylenes, Total	<b>0.51</b>	1.3	0.44	0.18	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00081

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 7.66

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.2	1.5	0.90	0.37	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.51	0.31	0.085	
74-87-3	Chloromethane	0.75	1.2	0.75	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	U
75-00-3	Chloroethane	0.59	0.96	0.59	0.12	U
64-17-5	Ethanol	18	14	2.1	0.95	
67-64-1	Acetone	14	11	5.5	2.5	
75-69-4	Trichlorofluoromethane	0.52	0.44	0.28	0.070	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.97	2.0	1.2	0.43	J
75-09-2	Methylene Chloride	0.79	0.73	0.45	0.21	
76-13-1	Trichlorotrifluoroethane	3.1	0.34	0.11	0.048	
75-15-0	Carbon Disulfide	5.7	1.6	0.84	0.25	
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	U
78-93-3	2-Butanone (MEK)	2.2	1.6	0.53	0.18	
141-78-6	Ethyl Acetate	87	1.3	0.88	0.38	
110-54-3	n-Hexane	0.22	0.72	0.44	0.15	J
67-66-3	Chloroform	0.22	0.53	0.17	0.071	J
109-99-9	Tetrahydrofuran (THF)	2.5	1.6	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.071	U
71-43-2	Benzene	0.65	0.79	0.26	0.12	J
56-23-5	Carbon Tetrachloride	1.1	0.39	0.13	0.057	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00081

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 7.66

Container Dilution Factor: 1.94

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.48	1.4	0.48	0.21	U
75-27-4	Bromodichloromethane	0.12	0.38	0.12	0.056	U
79-01-6	Trichloroethene	0.15	0.46	0.15	0.065	U
123-91-1	1,4-Dioxane	<b>0.26</b>	0.70	0.23	0.085	J
142-82-5	n-Heptane	<b>0.15</b>	0.62	0.38	0.10	J
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	<b>2.6</b>	0.67	0.22	0.084	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.078	U
124-48-1	Dibromochloromethane	0.097	0.30	0.097	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.32</b>	0.37	0.12	0.049	J
100-41-4	Ethylbenzene	<b>0.12</b>	0.58	0.19	0.084	J
179601-23-1	m,p-Xylenes	<b>0.40</b>	1.1	0.38	0.16	J
75-25-2	Bromoform	0.15	0.25	0.15	0.052	U
100-42-5	Styrene	0.36	0.59	0.36	0.098	U
95-47-6	o-Xylene	<b>0.15</b>	0.59	0.19	0.086	J
108-67-8	1,3,5-Trimethylbenzene	0.17	0.52	0.17	0.076	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.19</b>	0.51	0.17	0.073	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	U
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	U
1330-20-7	Xylenes, Total	<b>0.55</b>	1.1	0.38	0.16	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01067

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -3.81 Final Pressure (psig): 7.47

Container Dilution Factor: 2.04

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	7.4	12	7.6	3.1	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3.4	4.3	2.6	0.72	J
74-87-3	Chloromethane	6.3	10	6.3	1.7	U
75-01-4	Vinyl Chloride	2.7	8.5	2.7	0.91	U
106-99-0	1,3-Butadiene	5.9	9.6	5.9	1.6	U
75-00-3	Chloroethane	4.9	8.0	4.9	1.0	U
64-17-5	Ethanol	18	110	18	8.0	U
67-64-1	Acetone	46	89	46	21	U
75-69-4	Trichlorofluoromethane	0.95	3.7	2.3	0.59	J
67-63-0	2-Propanol (Isopropyl Alcohol)	31	17	10	3.7	
75-09-2	Methylene Chloride	3.8	6.1	3.8	1.8	U
76-13-1	Trichlorotrifluoroethane	12	2.8	0.91	0.40	
75-15-0	Carbon Disulfide	6.0	13	7.1	2.1	J
75-34-3	1,1-Dichloroethane	3.3	5.4	3.3	0.79	U
78-93-3	2-Butanone (MEK)	4.4	14	4.4	1.5	J
141-78-6	Ethyl Acetate	7.4	11	7.4	3.2	U, L
110-54-3	n-Hexane	14	6.0	3.7	1.3	
67-66-3	Chloroform	1.4	4.4	1.4	0.59	U
109-99-9	Tetrahydrofuran (THF)	1.5	14	2.4	0.93	J
107-06-2	1,2-Dichloroethane	1.7	5.2	1.7	0.59	U
71-43-2	Benzene	12	6.6	2.2	0.98	
56-23-5	Carbon Tetrachloride	5.0	3.3	1.1	0.48	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-011

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/6/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.050 Liter(s)

Test Notes:

Container ID: 1SC01067

Initial Pressure (psig): -3.81 Final Pressure (psig): 7.47

Container Dilution Factor: 2.04

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>86</b>	12	4.0	1.8	
75-27-4	Bromodichloromethane	1.0	3.2	1.0	0.47	U
79-01-6	Trichloroethene	1.3	3.9	1.3	0.55	U
123-91-1	1,4-Dioxane	1.9	5.9	1.9	0.71	U
142-82-5	n-Heptane	3.2	5.2	3.2	0.85	U
108-10-1	4-Methyl-2-pentanone	1.7	10	1.7	0.73	U
108-88-3	Toluene	<b>9.8</b>	5.6	1.8	0.70	
591-78-6	2-Hexanone	1.7	10	1.7	0.66	U
124-48-1	Dibromochloromethane	0.81	2.5	0.81	0.34	U
106-93-4	1,2-Dibromoethane	0.90	2.8	0.90	0.33	U
127-18-4	Tetrachloroethene	<b>0.63</b>	3.1	1.0	0.42	J
100-41-4	Ethylbenzene	1.6	4.9	1.6	0.70	U
179601-23-1	m,p-Xylenes	<b>1.4</b>	9.4	3.2	1.3	J
75-25-2	Bromoform	1.3	2.1	1.3	0.43	U
100-42-5	Styrene	3.1	5.0	3.1	0.82	U
95-47-6	o-Xylene	<b>0.88</b>	5.0	1.6	0.72	J
108-67-8	1,3,5-Trimethylbenzene	1.4	4.4	1.4	0.64	U
95-63-6	1,2,4-Trimethylbenzene	1.4	4.3	1.4	0.61	U
120-82-1	1,2,4-Trichlorobenzene	1.8	5.5	1.8	0.71	U
91-20-3	Naphthalene	2.4	4.0	2.4	1.0	U
1330-20-7	Xylenes, Total	<b>2.3</b>	9.4	3.2	1.3	J

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00707

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 6.13

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.74	1.4	0.84	0.34	J
75-71-8	Dichlorodifluoromethane (CFC 12)	6.6	0.48	0.29	0.080	
74-87-3	Chloromethane	0.70	1.1	0.70	0.19	U
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	U
106-99-0	1,3-Butadiene	0.65	1.1	0.65	0.18	U
75-00-3	Chloroethane	0.55	0.89	0.55	0.11	U
64-17-5	Ethanol	2.0	13	2.0	0.89	J
67-64-1	Acetone	5.7	9.9	5.1	2.3	J
75-69-4	Trichlorofluoromethane	1.1	0.41	0.26	0.065	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.8	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	4.7	0.31	0.10	0.045	
75-15-0	Carbon Disulfide	2.5	1.5	0.78	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.60	0.37	0.087	U
78-93-3	2-Butanone (MEK)	0.76	1.5	0.49	0.17	J
141-78-6	Ethyl Acetate	1.2	1.3	0.82	0.35	J
110-54-3	n-Hexane	0.15	0.67	0.41	0.14	J
67-66-3	Chloroform	0.16	0.49	0.16	0.066	U
109-99-9	Tetrahydrofuran (THF)	0.40	1.5	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	U
71-43-2	Benzene	3.1	0.74	0.24	0.11	
56-23-5	Carbon Tetrachloride	2.2	0.37	0.12	0.053	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00707

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 6.13

Container Dilution Factor: 1.81

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	1.0	1.3	0.45	0.20	J
75-27-4	Bromodichloromethane	0.11	0.35	0.11	0.052	U
79-01-6	Trichloroethene	0.14	0.43	0.14	0.061	U
123-91-1	1,4-Dioxane	0.21	0.65	0.21	0.079	U
142-82-5	n-Heptane	0.35	0.57	0.35	0.094	U
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.081	U
108-88-3	Toluene	7.8	0.62	0.20	0.078	
591-78-6	2-Hexanone	0.19	1.1	0.19	0.073	U
124-48-1	Dibromochloromethane	0.090	0.28	0.090	0.037	U
106-93-4	1,2-Dibromoethane	0.078	0.31	0.10	0.037	J
127-18-4	Tetrachloroethene	0.32	0.35	0.11	0.046	J
100-41-4	Ethylbenzene	0.34	0.54	0.18	0.078	J
179601-23-1	m,p-Xylenes	1.1	1.0	0.35	0.15	
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.55	0.34	0.091	U
95-47-6	o-Xylene	0.67	0.55	0.18	0.080	
108-67-8	1,3,5-Trimethylbenzene	0.11	0.49	0.16	0.071	J
95-63-6	1,2,4-Trimethylbenzene	0.23	0.48	0.16	0.068	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.079	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	1.7	1.0	0.35	0.15	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00141

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.13 Liter(s)

0.035 Liter(s)

Initial Pressure (psig): -3.17 Final Pressure (psig): 8.63

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	13	4.7	2.9	1.2	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	1.6	1.0	0.27	
74-87-3	Chloromethane	2.6	3.9	2.4	0.65	J
75-01-4	Vinyl Chloride	0.47	3.2	1.0	0.35	J
106-99-0	1,3-Butadiene	2.2	3.7	2.2	0.62	U
75-00-3	Chloroethane	1.9	3.1	1.9	0.39	U
64-17-5	Ethanol	7.6	44	6.8	3.1	J
67-64-1	Acetone	18	34	18	7.9	U
75-69-4	Trichlorofluoromethane	0.56	1.4	0.89	0.22	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.1	6.3	4.0	1.4	J
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.67	U
76-13-1	Trichlorotrifluoroethane	5.0	1.1	0.34	0.15	
75-15-0	Carbon Disulfide	9.4	5.0	2.7	0.80	
75-34-3	1,1-Dichloroethane	1.3	2.1	1.3	0.30	U
78-93-3	2-Butanone (MEK)	7.6	5.3	1.7	0.58	
141-78-6	Ethyl Acetate	2.8	4.3	2.8	1.2	U, L
110-54-3	n-Hexane	320	2.3	1.4	0.49	
67-66-3	Chloroform	0.54	1.7	0.54	0.23	U
109-99-9	Tetrahydrofuran (THF)	1.1	5.3	0.90	0.35	J
107-06-2	1,2-Dichloroethane	0.65	2.0	0.65	0.23	U
71-43-2	Benzene	410	2.5	0.83	0.37	
56-23-5	Carbon Tetrachloride	1.7	1.3	0.42	0.18	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00141

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.13 Liter(s)

0.035 Liter(s)

Initial Pressure (psig): -3.17 Final Pressure (psig): 8.63

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>640</b>	4.5	1.5	0.68	
75-27-4	Bromodichloromethane	0.39	1.2	0.39	0.18	U
79-01-6	Trichloroethene	0.49	1.5	0.49	0.21	U
123-91-1	1,4-Dioxane	0.73	2.2	0.73	0.27	U
142-82-5	n-Heptane	<b>200</b>	2.0	1.2	0.32	
108-10-1	4-Methyl-2-pentanone	0.64	3.8	0.64	0.28	U
108-88-3	Toluene	<b>580</b>	8.0	2.6	1.0	D
591-78-6	2-Hexanone	0.65	3.8	0.65	0.25	U
124-48-1	Dibromochloromethane	0.31	0.95	0.31	0.13	U
106-93-4	1,2-Dibromoethane	0.34	1.1	0.34	0.13	U
127-18-4	Tetrachloroethene	<b>0.21</b>	1.2	0.39	0.16	J
100-41-4	Ethylbenzene	<b>34</b>	1.9	0.61	0.27	
179601-23-1	m,p-Xylenes	<b>200</b>	3.6	1.2	0.50	
75-25-2	Bromoform	0.48	0.80	0.48	0.17	U
100-42-5	Styrene	1.2	1.9	1.2	0.31	U
95-47-6	o-Xylene	<b>110</b>	1.9	0.61	0.28	
108-67-8	1,3,5-Trimethylbenzene	<b>31</b>	1.7	0.54	0.24	
95-63-6	1,2,4-Trimethylbenzene	<b>33</b>	1.6	0.54	0.23	
120-82-1	1,2,4-Trichlorobenzene	0.67	2.1	0.67	0.27	U
91-20-3	Naphthalene	<b>1.2</b>	1.5	0.92	0.39	J
1330-20-7	Xylenes, Total	<b>310</b>	3.6	1.2	0.50	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00966

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.070 Liter(s)

0.020 Liter(s)

Initial Pressure (psig): -3.47 Final Pressure (psig): 6.41

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	25	8.1	5.0	2.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.3	2.8	1.7	0.47	
74-87-3	Chloromethane	3.6	6.8	4.2	1.1	J
75-01-4	Vinyl Chloride	0.68	5.6	1.8	0.60	J
106-99-0	1,3-Butadiene	3.9	6.3	3.9	1.1	U
75-00-3	Chloroethane	0.70	5.3	3.3	0.67	J
64-17-5	Ethanol	12	76	12	5.3	U
67-64-1	Acetone	31	59	31	14	U
75-69-4	Trichlorofluoromethane	0.85	2.4	1.5	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	6.1	11	6.9	2.4	J
75-09-2	Methylene Chloride	2.5	4.0	2.5	1.2	U
76-13-1	Trichlorotrifluoroethane	9.2	1.9	0.60	0.27	
75-15-0	Carbon Disulfide	16	8.6	4.7	1.4	
75-34-3	1,1-Dichloroethane	2.2	3.6	2.2	0.52	U
78-93-3	2-Butanone (MEK)	4.7	9.1	2.9	1.0	J
141-78-6	Ethyl Acetate	4.8	7.5	4.8	2.1	U, L
110-54-3	n-Hexane	610	4.0	2.4	0.84	
67-66-3	Chloroform	0.94	2.9	0.94	0.39	U
109-99-9	Tetrahydrofuran (THF)	1.5	9.1	1.5	0.61	J
107-06-2	1,2-Dichloroethane	1.1	3.5	1.1	0.39	U
71-43-2	Benzene	760	4.4	1.4	0.65	
56-23-5	Carbon Tetrachloride	3.3	2.2	0.73	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00966

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.070 Liter(s)

0.020 Liter(s)

Initial Pressure (psig): -3.47 Final Pressure (psig): 6.41

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1,200</b>	7.8	2.7	1.2	
75-27-4	Bromodichloromethane	0.68	2.1	0.68	0.31	U
79-01-6	Trichloroethene	0.85	2.5	0.85	0.36	U
123-91-1	1,4-Dioxane	1.3	3.9	1.3	0.47	U
142-82-5	n-Heptane	<b>380</b>	3.4	2.1	0.56	
108-10-1	4-Methyl-2-pentanone	1.1	6.6	1.1	0.48	U
108-88-3	Toluene	<b>990</b>	13	4.2	1.6	D
591-78-6	2-Hexanone	1.1	6.6	1.1	0.43	U
124-48-1	Dibromochloromethane	0.54	1.6	0.54	0.22	U
106-93-4	1,2-Dibromoethane	<b>2.7</b>	1.8	0.59	0.22	
127-18-4	Tetrachloroethene	<b>0.36</b>	2.1	0.67	0.27	J
100-41-4	Ethylbenzene	<b>64</b>	3.2	1.1	0.46	
179601-23-1	m,p-Xylenes	<b>370</b>	6.2	2.1	0.87	
75-25-2	Bromoform	0.83	1.4	0.83	0.29	U
100-42-5	Styrene	2.0	3.3	2.0	0.54	U
95-47-6	o-Xylene	<b>210</b>	3.3	1.1	0.48	
108-67-8	1,3,5-Trimethylbenzene	<b>57</b>	2.9	0.93	0.42	
95-63-6	1,2,4-Trimethylbenzene	<b>60</b>	2.8	0.93	0.40	
120-82-1	1,2,4-Trichlorobenzene	1.2	3.6	1.2	0.47	U
91-20-3	Naphthalene	<b>2.7</b>	2.7	1.6	0.67	
1330-20-7	Xylenes, Total	<b>570</b>	6.2	2.1	0.87	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00123

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.46 Final Pressure (psig): 6.94

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.90	1.5	0.90	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.4	0.51	0.31	0.085	
74-87-3	Chloromethane	0.75	1.2	0.75	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.70	1.1	0.70	0.19	U
75-00-3	Chloroethane	0.59	0.95	0.59	0.12	U
64-17-5	Ethanol	1.3	14	2.1	0.95	J
67-64-1	Acetone	2.5	11	5.5	2.4	J
75-69-4	Trichlorofluoromethane	0.78	0.44	0.27	0.070	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	3.3	0.33	0.11	0.048	
75-15-0	Carbon Disulfide	1.0	1.6	0.84	0.25	J
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	U
78-93-3	2-Butanone (MEK)	0.27	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	2.8	1.3	0.87	0.38	
110-54-3	n-Hexane	0.24	0.71	0.44	0.15	J
67-66-3	Chloroform	0.23	0.52	0.17	0.070	J
109-99-9	Tetrahydrofuran (THF)	0.29	1.6	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	U
71-43-2	Benzene	0.16	0.79	0.26	0.12	J
56-23-5	Carbon Tetrachloride	1.5	0.39	0.13	0.057	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-015

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Simon Cao

Date Analyzed: 11/6/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00123

Initial Pressure (psig): -3.46 Final Pressure (psig): 6.94

Container Dilution Factor: 1.93

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.48	1.4	0.48	0.21	U
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	0.15	0.46	0.15	0.065	U
123-91-1	1,4-Dioxane	<b>0.61</b>	0.70	0.23	0.084	J
142-82-5	n-Heptane	<b>0.16</b>	0.61	0.38	0.10	J
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	<b>0.13</b>	0.67	0.22	0.083	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.078	U
124-48-1	Dibromochloromethane	0.096	0.29	0.096	0.040	U
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>0.088</b>	0.37	0.12	0.049	J
100-41-4	Ethylbenzene	0.19	0.58	0.19	0.083	U
179601-23-1	m,p-Xylenes	0.38	1.1	0.38	0.16	U
75-25-2	Bromoform	0.15	0.25	0.15	0.051	U
100-42-5	Styrene	0.36	0.59	0.36	0.097	U
95-47-6	o-Xylene	0.19	0.59	0.19	0.086	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.52	0.17	0.076	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.10</b>	0.51	0.17	0.073	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.085	U
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	U
1330-20-7	Xylenes, Total	0.38	1.1	0.38	0.16	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00670

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 6.73

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.96</b>	1.3	0.81	0.33	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>1.7</b>	0.46	0.28	0.077	
74-87-3	Chloromethane	<b>0.19</b>	1.1	0.68	0.18	<b>J</b>
75-01-4	Vinyl Chloride	0.29	0.91	0.29	0.098	<b>U</b>
106-99-0	1,3-Butadiene	0.63	1.0	0.63	0.17	<b>U</b>
75-00-3	Chloroethane	0.53	0.86	0.53	0.11	<b>U</b>
64-17-5	Ethanol	<b>6.4</b>	12	1.9	0.86	<b>J</b>
67-64-1	Acetone	<b>23</b>	9.6	5.0	2.2	
75-69-4	Trichlorofluoromethane	<b>0.98</b>	0.40	0.25	0.063	
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.74</b>	1.8	1.1	0.39	<b>J</b>
75-09-2	Methylene Chloride	0.40	0.66	0.40	0.19	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>4.3</b>	0.30	0.097	0.043	
75-15-0	Carbon Disulfide	<b>1.1</b>	1.4	0.76	0.22	<b>J</b>
75-34-3	1,1-Dichloroethane	0.36	0.58	0.36	0.084	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>3.9</b>	1.5	0.47	0.16	
141-78-6	Ethyl Acetate	<b>4.2</b>	1.2	0.79	0.34	
110-54-3	n-Hexane	<b>0.33</b>	0.65	0.40	0.14	<b>J</b>
67-66-3	Chloroform	<b>0.35</b>	0.48	0.15	0.064	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>11</b>	1.5	0.25	0.099	
107-06-2	1,2-Dichloroethane	0.18	0.56	0.18	0.064	<b>U</b>
71-43-2	Benzene	<b>0.18</b>	0.71	0.23	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>2.0</b>	0.35	0.12	0.051	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00670

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 6.73

Container Dilution Factor: 1.75

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.43	1.3	0.43	0.19	U
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.050	U
79-01-6	Trichloroethene	0.14	0.42	0.14	0.059	U
123-91-1	1,4-Dioxane	<b>0.30</b>	0.63	0.21	0.077	J
142-82-5	n-Heptane	<b>0.24</b>	0.56	0.34	0.091	J
108-10-1	4-Methyl-2-pentanone	<b>0.17</b>	1.1	0.18	0.078	J
108-88-3	Toluene	<b>2.6</b>	0.60	0.20	0.075	
591-78-6	2-Hexanone	<b>0.46</b>	1.1	0.18	0.071	J
124-48-1	Dibromochloromethane	0.087	0.27	0.087	0.036	U
106-93-4	1,2-Dibromoethane	0.097	0.30	0.097	0.035	U
127-18-4	Tetrachloroethene	<b>0.066</b>	0.34	0.11	0.045	J
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.076	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.14	0.22	0.14	0.047	U
100-42-5	Styrene	0.33	0.53	0.33	0.088	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.078	U
108-67-8	1,3,5-Trimethylbenzene	0.15	0.47	0.15	0.069	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.12</b>	0.46	0.15	0.066	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.59	0.19	0.077	U
91-20-3	Naphthalene	0.26	0.43	0.26	0.11	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-160-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-017

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/6/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0050 Liter(s)

Test Notes:

Container ID: 1SC00144

Initial Pressure (psig): -2.57 Final Pressure (psig): 5.35

Container Dilution Factor: 1.65

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	86	100	61	25	J
75-71-8	Dichlorodifluoromethane (CFC 12)	21	35	21	5.8	U
74-87-3	Chloromethane	51	83	51	14	U
75-01-4	Vinyl Chloride	22	68	22	7.4	U
106-99-0	1,3-Butadiene	48	78	48	13	U
75-00-3	Chloroethane	40	65	40	8.3	U
64-17-5	Ethanol	150	930	150	65	U
67-64-1	Acetone	380	720	380	170	U
75-69-4	Trichlorofluoromethane	19	30	19	4.8	U
67-63-0	2-Propanol (Isopropyl Alcohol)	85	130	85	30	U
75-09-2	Methylene Chloride	30	49	30	14	U
76-13-1	Trichlorotrifluoroethane	14	23	7.3	3.3	J
75-15-0	Carbon Disulfide	57	110	57	17	U
75-34-3	1,1-Dichloroethane	27	44	27	6.4	U
78-93-3	2-Butanone (MEK)	36	110	36	12	U
141-78-6	Ethyl Acetate	60	92	60	26	U, L
110-54-3	n-Hexane	370	49	30	10	
67-66-3	Chloroform	11	36	11	4.8	U
109-99-9	Tetrahydrofuran (THF)	19	110	19	7.5	U
107-06-2	1,2-Dichloroethane	14	42	14	4.8	U
71-43-2	Benzene	15	54	18	8.0	J
56-23-5	Carbon Tetrachloride	4.7	27	8.9	3.9	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-160-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-017

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/6/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0050 Liter(s)

Test Notes:

Container ID: 1SC00144

Initial Pressure (psig): -2.57 Final Pressure (psig): 5.35

Container Dilution Factor: 1.65

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	4,600	96	33	14	
75-27-4	Bromodichloromethane	8.4	26	8.4	3.8	U
79-01-6	Trichloroethene	10	31	10	4.4	U
123-91-1	1,4-Dioxane	16	48	16	5.8	U
142-82-5	n-Heptane	26	42	26	6.8	J
108-10-1	4-Methyl-2-pentanone	14	81	14	5.9	U
108-88-3	Toluene	15	46	15	5.7	U
591-78-6	2-Hexanone	14	81	14	5.3	U
124-48-1	Dibromochloromethane	6.6	20	6.6	2.7	U
106-93-4	1,2-Dibromoethane	7.3	22	7.3	2.7	U
127-18-4	Tetrachloroethene	5.7	25	8.3	3.4	J
100-41-4	Ethylbenzene	13	40	13	5.7	U
179601-23-1	m,p-Xylenes	26	76	26	11	U
75-25-2	Bromoform	10	17	10	3.5	U
100-42-5	Styrene	25	40	25	6.7	U
95-47-6	o-Xylene	13	40	13	5.9	U
108-67-8	1,3,5-Trimethylbenzene	11	36	11	5.2	U
95-63-6	1,2,4-Trimethylbenzene	11	35	11	5.0	U
120-82-1	1,2,4-Trichlorobenzene	14	44	14	5.8	U
91-20-3	Naphthalene	20	33	20	8.2	U
1330-20-7	Xylenes, Total	26	76	26	11	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-265-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00595

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 6.27

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	260	290	180	71	J
75-71-8	Dichlorodifluoromethane (CFC 12)	61	99	61	17	U
74-87-3	Chloromethane	150	240	150	39	U
75-01-4	Vinyl Chloride	63	200	63	21	U
106-99-0	1,3-Butadiene	140	220	140	38	U
75-00-3	Chloroethane	110	190	110	24	U
64-17-5	Ethanol	420	2,700	420	190	U
67-64-1	Acetone	1,100	2,100	1,100	480	U
75-69-4	Trichlorofluoromethane	54	86	54	14	U
67-63-0	2-Propanol (Isopropyl Alcohol)	240	380	240	85	U
75-09-2	Methylene Chloride	87	140	87	41	U
76-13-1	Trichlorotrifluoroethane	11	65	21	9.4	J
75-15-0	Carbon Disulfide	160	300	160	49	U
75-34-3	1,1-Dichloroethane	77	130	77	18	U
78-93-3	2-Butanone (MEK)	100	320	100	35	U
141-78-6	Ethyl Acetate	170	260	170	73	U, L
110-54-3	n-Hexane	5,700	140	86	30	
67-66-3	Chloroform	33	100	33	14	U
109-99-9	Tetrahydrofuran (THF)	54	320	54	21	U
107-06-2	1,2-Dichloroethane	40	120	40	14	U
71-43-2	Benzene	33	150	50	23	J
56-23-5	Carbon Tetrachloride	26	77	26	11	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-265-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00595

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 6.27

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>24,000</b>	270	93	41	
75-27-4	Bromodichloromethane	24	73	24	11	U
79-01-6	Trichloroethene	30	90	30	13	U
123-91-1	1,4-Dioxane	45	140	45	17	U
142-82-5	n-Heptane	<b>56</b>	120	74	20	J
108-10-1	4-Methyl-2-pentanone	39	230	39	17	U
108-88-3	Toluene	<b>35</b>	130	43	16	J
591-78-6	2-Hexanone	39	230	39	15	U
124-48-1	Dibromochloromethane	19	58	19	7.8	U
106-93-4	1,2-Dibromoethane	21	64	21	7.6	U
127-18-4	Tetrachloroethene	<b>11</b>	72	24	9.6	J
100-41-4	Ethylbenzene	37	110	37	16	U
179601-23-1	m,p-Xylenes	74	220	74	30	U
75-25-2	Bromoform	29	48	29	10	U
100-42-5	Styrene	71	120	71	19	U
95-47-6	o-Xylene	37	120	37	17	U
108-67-8	1,3,5-Trimethylbenzene	33	100	33	15	U
95-63-6	1,2,4-Trimethylbenzene	33	100	33	14	U
120-82-1	1,2,4-Trichlorobenzene	41	130	41	17	U
91-20-3	Naphthalene	56	94	56	23	U
1330-20-7	Xylenes, Total	74	220	74	30	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01012

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.0010 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 5.13

Container Dilution Factor: 1.62

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	710	490	300	120	
75-71-8	Dichlorodifluoromethane (CFC 12)	100	170	100	29	U
74-87-3	Chloromethane	250	410	250	67	U
75-01-4	Vinyl Chloride	110	340	110	36	U
106-99-0	1,3-Butadiene	230	380	230	64	U
75-00-3	Chloroethane	200	320	200	41	U
64-17-5	Ethanol	710	4,600	710	320	U
67-64-1	Acetone	1,800	3,500	1,800	820	U
75-69-4	Trichlorofluoromethane	92	150	92	23	U
67-63-0	2-Propanol (Isopropyl Alcohol)	420	660	420	150	U
75-09-2	Methylene Chloride	150	240	150	70	U
76-13-1	Trichlorotrifluoroethane	18	110	36	16	J
75-15-0	Carbon Disulfide	280	520	280	83	U
75-34-3	1,1-Dichloroethane	130	220	130	31	U
78-93-3	2-Butanone (MEK)	180	550	180	60	U
141-78-6	Ethyl Acetate	290	450	290	130	U, L
110-54-3	n-Hexane	17,000	240	150	51	
67-66-3	Chloroform	56	180	56	24	U
109-99-9	Tetrahydrofuran (THF)	93	550	93	37	U
107-06-2	1,2-Dichloroethane	68	210	68	24	U
71-43-2	Benzene	48	260	86	39	J
56-23-5	Carbon Tetrachloride	44	130	44	19	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01012

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.0010 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 5.13

Container Dilution Factor: 1.62

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	79,000	470	160	71	
75-27-4	Bromodichloromethane	41	130	41	19	U
79-01-6	Trichloroethene	51	150	51	22	U
123-91-1	1,4-Dioxane	76	230	76	28	U
142-82-5	n-Heptane	180	210	130	34	J
108-10-1	4-Methyl-2-pentanone	67	400	67	29	U
108-88-3	Toluene	73	220	73	28	U
591-78-6	2-Hexanone	67	400	67	26	U
124-48-1	Dibromochloromethane	32	99	32	13	U
106-93-4	1,2-Dibromoethane	36	110	36	13	U
127-18-4	Tetrachloroethene	41	120	41	16	U
100-41-4	Ethylbenzene	63	190	63	28	U
179601-23-1	m,p-Xylenes	130	370	130	52	U
75-25-2	Bromoform	50	83	50	17	U
100-42-5	Styrene	120	200	120	33	U
95-47-6	o-Xylene	34	200	63	29	J
108-67-8	1,3,5-Trimethylbenzene	56	170	56	25	U
95-63-6	1,2,4-Trimethylbenzene	56	170	56	24	U
120-82-1	1,2,4-Trichlorobenzene	70	220	70	28	U
91-20-3	Naphthalene	96	160	96	40	U
1330-20-7	Xylenes, Total	130	370	130	52	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00008

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -3.81 Final Pressure (psig): 8.07

Container Dilution Factor: 2.09

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	17	16	9.7	3.9	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.92	5.5	3.4	0.92	J
74-87-3	Chloromethane	24	13	8.1	2.2	
75-01-4	Vinyl Chloride	4.2	11	3.5	1.2	J
106-99-0	1,3-Butadiene	7.6	12	7.6	2.1	U
75-00-3	Chloroethane	3.0	10	6.3	1.3	J
64-17-5	Ethanol	23	150	23	10	U
67-64-1	Acetone	59	110	59	26	U
75-69-4	Trichlorofluoromethane	1.3	4.7	3.0	0.75	J
67-63-0	2-Propanol (Isopropyl Alcohol)	13	21	13	4.7	U
75-09-2	Methylene Chloride	4.8	7.8	4.8	2.3	U
76-13-1	Trichlorotrifluoroethane	2.3	3.6	1.2	0.52	J
75-15-0	Carbon Disulfide	110	17	9.1	2.7	
75-34-3	1,1-Dichloroethane	1.7	7.0	4.3	1.0	J
78-93-3	2-Butanone (MEK)	5.7	18	5.7	1.9	U
141-78-6	Ethyl Acetate	9.4	15	9.4	4.1	U, L
110-54-3	n-Hexane	230	7.7	4.7	1.6	
67-66-3	Chloroform	1.9	5.7	1.8	0.76	J
109-99-9	Tetrahydrofuran (THF)	23	18	3.0	1.2	
107-06-2	1,2-Dichloroethane	2.2	6.7	2.2	0.76	U
71-43-2	Benzene	22	8.5	2.8	1.3	
56-23-5	Carbon Tetrachloride	14	4.2	1.4	0.61	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00008

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -3.81 Final Pressure (psig): 8.07

Container Dilution Factor: 2.09

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	2,700	15	5.2	2.3	
75-27-4	Bromodichloromethane	1.3	4.1	1.3	0.60	U
79-01-6	Trichloroethene	1.7	5.0	1.7	0.70	U
123-91-1	1,4-Dioxane	2.5	7.5	2.5	0.91	U
142-82-5	n-Heptane	2.7	6.6	4.1	1.1	J
108-10-1	4-Methyl-2-pentanone	2.2	13	2.2	0.93	U
108-88-3	Toluene	93	7.2	2.4	0.90	
591-78-6	2-Hexanone	2.2	13	2.2	0.84	U
124-48-1	Dibromochloromethane	1.0	3.2	1.0	0.43	U
106-93-4	1,2-Dibromoethane	1.2	3.5	1.2	0.42	U
127-18-4	Tetrachloroethene	1.3	4.0	1.3	0.53	U
100-41-4	Ethylbenzene	3.0	6.3	2.0	0.90	J
179601-23-1	m,p-Xylenes	5.3	12	4.1	1.7	J
75-25-2	Bromoform	1.6	2.7	1.6	0.56	U
100-42-5	Styrene	3.9	6.4	3.9	1.1	U
95-47-6	o-Xylene	4.6	6.4	2.0	0.93	J
108-67-8	1,3,5-Trimethylbenzene	1.9	5.6	1.8	0.82	J
95-63-6	1,2,4-Trimethylbenzene	1.8	5.5	1.8	0.79	U
120-82-1	1,2,4-Trichlorobenzene	2.3	7.0	2.3	0.92	U
91-20-3	Naphthalene	3.1	5.2	3.1	1.3	U
1330-20-7	Xylenes, Total	9.8	12	4.1	1.7	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201105-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201105-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201106-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/6/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U, L
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201106-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/6/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date(s) Collected: 10/19/20

Analyst: Simon Cao/Topacio De Leon

Date(s) Received: 10/26/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 11/5 - 11/6/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201105-MB	105	102	104	70-130	
Method Blank	P201106-MB	100	102	103	70-130	
Lab Control Sample	P201105-LCS	103	98	103	70-130	
Lab Control Sample	P201106-LCS	100	99	101	70-130	
Duplicate Lab Control Sample	P201105-DLCS	102	98	102	70-130	
Duplicate Lab Control Sample	P201106-DLCS	101	98	101	70-130	
SV108-025-204	P2006066-001	103	101	105	70-130	
SV108-050-204	P2006066-002	103	99	106	70-130	
SV108-150-204	P2006066-003	103	102	104	70-130	
SV108-250-204	P2006066-004	103	100	103	70-130	
SV108-350-204	P2006066-005	103	101	106	70-130	
SV108-450-204	P2006066-007	103	101	106	70-130	
SV112-025-204	P2006066-008	103	98	107	70-130	
SV112-050-204	P2006066-009	101	101	107	70-130	
SV112-150-204	P2006066-010	102	99	106	70-130	
SV112-250-204	P2006066-011	104	98	100	70-130	
SV112-350-204	P2006066-012	102	100	107	70-130	
SV112-450-604	P2006066-013	103	92	95	70-130	
SV112-450-204	P2006066-014	104	91	93	70-130	
SV118-025-204	P2006066-015	103	100	107	70-130	
SV118-050-204	P2006066-016	102	100	106	70-130	
SV118-160-204	P2006066-017	104	98	100	70-130	
SV118-265-204	P2006066-018	103	101	101	70-130	
SV118-350-204	P2006066-019	103	98	99	70-130	
SV118-450-204	P2006066-020	104	98	98	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201105-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	122	105	103	86	84	57-136	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	41.7	41.7	98	98	59-128	0	25	
74-87-3	Chloromethane	99.8	99.9	99.2	100	99	59-132	1	25	
75-01-4	Vinyl Chloride	81.4	82.3	82.8	101	102	64-127	1	25	
106-99-0	1,3-Butadiene	95.0	104	104	109	109	66-134	0	25	
75-00-3	Chloroethane	77.3	73.0	72.7	94	94	63-127	0	25	
64-17-5	Ethanol	530	460	463	87	87	59-125	0	25	
67-64-1	Acetone	435	375	375	86	86	58-128	0	25	
75-69-4	Trichlorofluoromethane	36.3	36.1	36.2	99	100	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	159	163	96	98	52-125	2	25	
75-09-2	Methylene Chloride	59.9	57.8	57.6	96	96	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	27.9	27.5	27.5	99	99	66-126	0	25	
75-15-0	Carbon Disulfide	137	133	132	97	96	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	49.6	49.4	95	94	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	141	140	101	100	67-130	1	25	
141-78-6	Ethyl Acetate	117	150	149	128	127	65-128	0.8	25	
110-54-3	n-Hexane	60.2	53.3	53.2	89	88	63-120	1	25	
67-66-3	Chloroform	43.8	42.1	42.1	96	96	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	136	131	129	96	95	64-123	1	25	
107-06-2	1,2-Dichloroethane	51.4	52.5	52.2	102	102	65-128	0	25	
71-43-2	Benzene	63.9	61.4	61.1	96	96	69-119	0	25	
56-23-5	Carbon Tetrachloride	33.4	33.0	32.7	99	98	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201105-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		ppbV	ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	
110-82-7	Cyclohexane	121	117	116		97	96	70-117	1	25
75-27-4	Bromodichloromethane	31.4	31.8	31.6		101	101	72-128	0	25
79-01-6	Trichloroethene	38.3	36.8	36.7		96	96	71-123	0	25
123-91-1	1,4-Dioxane	57.7	59.4	59.3		103	103	71-122	0	25
142-82-5	n-Heptane	51.3	48.8	48.7		95	95	69-123	0	25
108-10-1	4-Methyl-2-pentanone	102	106	106		104	104	67-130	0	25
108-88-3	Toluene	54.7	51.9	52.1		95	95	66-119	0	25
591-78-6	2-Hexanone	98.7	105	105		106	106	62-128	0	25
124-48-1	Dibromochloromethane	24.7	26.0	25.9		105	105	70-130	0	25
106-93-4	1,2-Dibromoethane	27.1	28.0	28.0		103	103	74-122	0	25
127-18-4	Tetrachloroethene	30.4	29.7	29.5		98	97	66-124	1	25
100-41-4	Ethylbenzene	47.4	47.0	46.9		99	99	70-124	0	25
179601-23-1	m,p-Xylenes	94.9	94.8	94.4		100	99	61-134	1	25
75-25-2	Bromoform	20.1	22.2	22.2		110	110	66-139	0	25
100-42-5	Styrene	48.4	51.2	51.2		106	106	73-127	0	25
95-47-6	o-Xylene	47.4	47.3	47.4		100	100	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	41.9	41.9	41.9		100	100	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	41.5	42.0	42.2		101	102	66-132	1	25
120-82-1	1,2,4-Trichlorobenzene	52.3	53.4	54.2		102	104	55-142	2	25
91-20-3	Naphthalene	37.8	38.7	39.9		102	106	57-138	4	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201106-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/6/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	ppbV	LCS	DLCS	Limits		Limit	
115-07-1	Propene	122	108	108		89	89	57-136	0	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	40.7	41.3		96	97	59-128	1	25	
74-87-3	Chloromethane	99.8	94.4	95.7		95	96	59-132	1	25	
75-01-4	Vinyl Chloride	81.4	85.9	85.6		106	105	64-127	0.9	25	
106-99-0	1,3-Butadiene	95.0	109	108		115	114	66-134	0.9	25	
75-00-3	Chloroethane	77.3	74.1	74.3		96	96	63-127	0	25	
64-17-5	Ethanol	530	472	476		89	90	59-125	1	25	
67-64-1	Acetone	435	385	385		89	89	58-128	0	25	
75-69-4	Trichlorofluoromethane	36.3	35.3	35.6		97	98	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	165	165		99	99	52-125	0	25	
75-09-2	Methylene Chloride	59.9	58.6	58.8		98	98	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	27.9	26.9	27.2		96	97	66-126	1	25	
75-15-0	Carbon Disulfide	137	136	135		99	99	57-134	0	25	
75-34-3	1,1-Dichloroethane	52.4	50.0	50.0		95	95	68-126	0	25	
78-93-3	2-Butanone (MEK)	140	143	144		102	103	67-130	1	25	
141-78-6	Ethyl Acetate	117	154	154		132	132	65-128	0	25	L
110-54-3	n-Hexane	60.2	55.0	55.2		91	92	63-120	1	25	
67-66-3	Chloroform	43.8	41.8	41.9		95	96	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	136	134	132		99	97	64-123	2	25	
107-06-2	1,2-Dichloroethane	51.4	51.3	51.7		100	101	65-128	1	25	
71-43-2	Benzene	63.9	62.3	61.8		97	97	69-119	0	25	
56-23-5	Carbon Tetrachloride	33.4	32.0	32.0		96	96	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.  
 L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201106-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/6/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		DOD		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit		
110-82-7	Cyclohexane	121	118	117	98	97	70-117	1	25	
75-27-4	Bromodichloromethane	31.4	31.6	31.5	101	100	72-128	1	25	
79-01-6	Trichloroethene	38.3	36.6	36.5	96	95	71-123	1	25	
123-91-1	1,4-Dioxane	57.7	59.8	59.7	104	103	71-122	1	25	
142-82-5	n-Heptane	51.3	49.7	49.3	97	96	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	102	109	108	107	106	67-130	0.9	25	
108-88-3	Toluene	54.7	52.6	52.2	96	95	66-119	1	25	
591-78-6	2-Hexanone	98.7	108	107	109	108	62-128	0.9	25	
124-48-1	Dibromochloromethane	24.7	26.0	25.8	105	104	70-130	1	25	
106-93-4	1,2-Dibromoethane	27.1	28.4	28.2	105	104	74-122	1	25	
127-18-4	Tetrachloroethene	30.4	29.6	29.5	97	97	66-124	0	25	
100-41-4	Ethylbenzene	47.4	47.4	47.2	100	100	70-124	0	25	
179601-23-1	m,p-Xylenes	94.9	95.1	94.5	100	100	61-134	0	25	
75-25-2	Bromoform	20.1	22.1	22.1	110	110	66-139	0	25	
100-42-5	Styrene	48.4	52.0	51.7	107	107	73-127	0	25	
95-47-6	o-Xylene	47.4	47.6	47.3	100	100	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	41.8	41.8	100	100	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	42.0	42.0	101	101	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	53.8	54.7	103	105	55-142	2	25	
91-20-3	Naphthalene	37.8	39.7	40.6	105	107	57-138	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01029

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.03 Final Pressure (psig): 6.61

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.59	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>3.6</b>	2.4	1.5	0.40	
74-87-3	Chloromethane	1.5	2.4	1.5	0.39	U
75-01-4	Vinyl Chloride	0.78	2.4	0.78	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	3.8	24	3.8	1.7	U
67-64-1	Acetone	<b>24</b>	24	12	5.5	
75-69-4	Trichlorofluoromethane	<b>1.7</b>	2.3	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	<b>99</b>	2.4	0.78	0.35	
75-15-0	Carbon Disulfide	2.5	4.6	2.5	0.73	U
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	1.5	4.6	1.5	0.50	U
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U
110-54-3	n-Hexane	<b>0.58</b>	2.4	1.5	0.50	J
67-66-3	Chloroform	<b>0.49</b>	2.4	0.78	0.32	J
109-99-9	Tetrahydrofuran (THF)	0.78	4.6	0.78	0.31	U
107-06-2	1,2-Dichloroethane	0.78	2.4	0.78	0.27	U
71-43-2	Benzene	<b>0.51</b>	2.4	0.78	0.35	J
56-23-5	Carbon Tetrachloride	<b>8.7</b>	2.3	0.78	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01029

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.03 Final Pressure (psig): 6.61

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	3.4	4.6	1.6	0.69	J
75-27-4	Bromodichloromethane	0.78	2.4	0.78	0.35	U
79-01-6	Trichloroethene	0.78	2.3	0.78	0.33	U
123-91-1	1,4-Dioxane	0.78	2.4	0.78	0.29	U
142-82-5	n-Heptane	0.77	2.4	1.5	0.39	J
108-10-1	4-Methyl-2-pentanone	0.78	4.6	0.78	0.33	U
108-88-3	Toluene	1.6	2.4	0.78	0.30	J
591-78-6	2-Hexanone	0.78	4.6	0.78	0.30	U
124-48-1	Dibromochloromethane	0.78	2.4	0.78	0.32	U
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.28	U
127-18-4	Tetrachloroethene	1.4	2.4	0.78	0.32	J
100-41-4	Ethylbenzene	0.78	2.4	0.78	0.34	U
179601-23-1	m,p-Xylenes	1.7	4.6	1.6	0.64	J
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	0.53	2.4	0.78	0.35	J
108-67-8	1,3,5-Trimethylbenzene	0.56	2.4	0.78	0.35	J
95-63-6	1,2,4-Trimethylbenzene	3.0	2.4	0.78	0.34	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	2.2	4.6	1.6	0.64	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00884

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.35 Final Pressure (psig): 6.91

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.1	2.3	1.4	0.57	J
75-71-8	Dichlorodifluoromethane (CFC 12)	9.2	2.3	1.4	0.38	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	U
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	U
64-17-5	Ethanol	3.9	23	3.6	1.6	J
67-64-1	Acetone	22	23	12	5.3	J
75-69-4	Trichlorofluoromethane	3.8	2.2	1.4	0.35	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.4	2.8	0.96	U
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.66	U
76-13-1	Trichlorotrifluoroethane	310	2.3	0.74	0.33	
75-15-0	Carbon Disulfide	2.6	4.4	2.4	0.70	J
75-34-3	1,1-Dichloroethane	1.4	2.4	1.4	0.34	U
78-93-3	2-Butanone (MEK)	1.4	4.4	1.4	0.48	U
141-78-6	Ethyl Acetate	2.8	4.4	2.8	1.2	U
110-54-3	n-Hexane	1.5	2.3	1.4	0.48	J
67-66-3	Chloroform	2.4	2.3	0.74	0.31	
109-99-9	Tetrahydrofuran (THF)	0.74	4.4	0.74	0.29	U
107-06-2	1,2-Dichloroethane	0.74	2.3	0.74	0.26	U
71-43-2	Benzene	0.74	2.3	0.74	0.34	U
56-23-5	Carbon Tetrachloride	33	2.2	0.74	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00884

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.35 Final Pressure (psig): 6.91

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	16	4.4	1.5	0.66	
75-27-4	Bromodichloromethane	0.74	2.3	0.74	0.34	U
79-01-6	Trichloroethene	0.54	2.2	0.74	0.32	J
123-91-1	1,4-Dioxane	0.74	2.3	0.74	0.28	U
142-82-5	n-Heptane	1.4	2.3	1.4	0.37	U
108-10-1	4-Methyl-2-pentanone	0.74	4.4	0.74	0.32	U
108-88-3	Toluene	0.40	2.3	0.74	0.28	J
591-78-6	2-Hexanone	0.74	4.4	0.74	0.29	U
124-48-1	Dibromochloromethane	0.74	2.3	0.74	0.31	U
106-93-4	1,2-Dibromoethane	0.74	2.3	0.74	0.27	U
127-18-4	Tetrachloroethene	3.9	2.3	0.74	0.30	
100-41-4	Ethylbenzene	0.74	2.3	0.74	0.33	U
179601-23-1	m,p-Xylenes	1.5	4.4	1.5	0.61	U
75-25-2	Bromoform	1.4	2.3	1.4	0.48	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	0.74	2.3	0.74	0.34	U
108-67-8	1,3,5-Trimethylbenzene	0.74	2.3	0.74	0.34	U
95-63-6	1,2,4-Trimethylbenzene	0.76	2.3	0.74	0.32	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.57	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.57	U
1330-20-7	Xylenes, Total	1.5	4.4	1.5	0.61	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-003

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00050 Liter(s)

Test Notes:

Container ID: 1SC00977

Initial Pressure (psig): -2.37 Final Pressure (psig): 7.52

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>3,400</b>	1,900	1,200	470	
75-71-8	Dichlorodifluoromethane (CFC 12)	1,200	1,900	1,200	310	U
74-87-3	Chloromethane	1,200	1,900	1,200	310	U
75-01-4	Vinyl Chloride	610	1,900	610	210	U
106-99-0	1,3-Butadiene	1,200	1,900	1,200	320	U
75-00-3	Chloroethane	1,200	1,900	1,200	240	U
64-17-5	Ethanol	3,000	19,000	3,000	1,300	U
67-64-1	Acetone	9,700	19,000	9,700	4,300	U
75-69-4	Trichlorofluoromethane	1,200	1,800	1,200	290	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,300	3,600	2,300	790	U
75-09-2	Methylene Chloride	1,200	1,900	1,200	540	U
76-13-1	Trichlorotrifluoroethane	<b>480</b>	1,900	610	270	J
75-15-0	Carbon Disulfide	1,900	3,600	1,900	580	U
75-34-3	1,1-Dichloroethane	1,200	1,900	1,200	280	U
78-93-3	2-Butanone (MEK)	1,200	3,600	1,200	400	U
141-78-6	Ethyl Acetate	2,300	3,600	2,300	1,000	U
110-54-3	n-Hexane	<b>220,000</b>	1,900	1,200	400	
67-66-3	Chloroform	610	1,900	610	260	U
109-99-9	Tetrahydrofuran (THF)	610	3,600	610	240	U
107-06-2	1,2-Dichloroethane	610	1,900	610	210	U
71-43-2	Benzene	<b>1,800</b>	1,900	610	280	J
56-23-5	Carbon Tetrachloride	610	1,800	610	270	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-003

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00050 Liter(s)

Test Notes:

Container ID: 1SC00977

Initial Pressure (psig): -2.37 Final Pressure (psig): 7.52

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>250,000</b>	3,600	1,200	540	
75-27-4	Bromodichloromethane	610	1,900	610	280	U
79-01-6	Trichloroethene	<b>470</b>	1,800	610	260	J
123-91-1	1,4-Dioxane	610	1,900	610	230	U
142-82-5	n-Heptane	<b>69,000</b>	1,900	1,200	310	
108-10-1	4-Methyl-2-pentanone	610	3,600	610	260	U
108-88-3	Toluene	<b>970</b>	1,900	610	230	J
591-78-6	2-Hexanone	610	3,600	610	240	U
124-48-1	Dibromochloromethane	610	1,900	610	250	U
106-93-4	1,2-Dibromoethane	610	1,900	610	220	U
127-18-4	Tetrachloroethene	<b>1,200</b>	1,900	610	250	J
100-41-4	Ethylbenzene	610	1,900	610	270	U
179601-23-1	m,p-Xylenes	1,200	3,600	1,200	500	U
75-25-2	Bromoform	1,200	1,900	1,200	400	U
100-42-5	Styrene	1,200	1,900	1,200	310	U
95-47-6	o-Xylene	<b>320</b>	1,900	610	280	J
108-67-8	1,3,5-Trimethylbenzene	610	1,900	610	280	U
95-63-6	1,2,4-Trimethylbenzene	610	1,900	610	270	U
120-82-1	1,2,4-Trichlorobenzene	1,200	3,600	1,200	470	U
91-20-3	Naphthalene	1,100	1,900	1,100	470	U
1330-20-7	Xylenes, Total	1,200	3,600	1,200	500	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01015

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -2.30 Final Pressure (psig): 7.07

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	7,200	4,600	2,800	1,100	
75-71-8	Dichlorodifluoromethane (CFC 12)	2,800	4,600	2,800	770	U
74-87-3	Chloromethane	2,800	4,600	2,800	760	U
75-01-4	Vinyl Chloride	1,500	4,700	1,500	500	U
106-99-0	1,3-Butadiene	2,800	4,600	2,800	770	U
75-00-3	Chloroethane	2,800	4,600	2,800	580	U
64-17-5	Ethanol	7,300	47,000	7,300	3,300	U
67-64-1	Acetone	24,000	46,000	24,000	11,000	U
75-69-4	Trichlorofluoromethane	2,800	4,500	2,800	710	U
67-63-0	2-Propanol (Isopropyl Alcohol)	5,500	8,800	5,500	1,900	U
75-09-2	Methylene Chloride	2,800	4,600	2,800	1,300	U
76-13-1	Trichlorotrifluoroethane	1,500	4,700	1,500	670	U
75-15-0	Carbon Disulfide	4,800	8,800	4,800	1,400	U
75-34-3	1,1-Dichloroethane	2,900	4,800	2,900	690	U
78-93-3	2-Butanone (MEK)	2,800	8,800	2,800	970	U
141-78-6	Ethyl Acetate	5,700	8,800	5,700	2,500	U
110-54-3	n-Hexane	620,000	4,600	2,800	970	
67-66-3	Chloroform	1,500	4,700	1,500	620	U
109-99-9	Tetrahydrofuran (THF)	1,500	8,800	1,500	590	U
107-06-2	1,2-Dichloroethane	1,500	4,600	1,500	520	U
71-43-2	Benzene	5,200	4,600	1,500	680	
56-23-5	Carbon Tetrachloride	1,500	4,500	1,500	650	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01015

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -2.30 Final Pressure (psig): 7.07

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>720,000</b>	8,800	3,000	1,300	
75-27-4	Bromodichloromethane	1,500	4,600	1,500	680	U
79-01-6	Trichloroethene	1,500	4,500	1,500	630	U
123-91-1	1,4-Dioxane	1,500	4,600	1,500	550	U
142-82-5	n-Heptane	<b>230,000</b>	4,600	2,800	750	
108-10-1	4-Methyl-2-pentanone	1,500	8,800	1,500	640	U
108-88-3	Toluene	1,500	4,600	1,500	570	U
591-78-6	2-Hexanone	1,500	8,800	1,500	580	U
124-48-1	Dibromochloromethane	1,500	4,600	1,500	620	U
106-93-4	1,2-Dibromoethane	1,500	4,600	1,500	550	U
127-18-4	Tetrachloroethene	<b>1,400</b>	4,600	1,500	610	J
100-41-4	Ethylbenzene	1,500	4,600	1,500	660	U
179601-23-1	m,p-Xylenes	3,000	8,800	3,000	1,200	U
75-25-2	Bromoform	2,800	4,700	2,800	970	U
100-42-5	Styrene	2,800	4,600	2,800	760	U
95-47-6	o-Xylene	<b>1,100</b>	4,700	1,500	680	J
108-67-8	1,3,5-Trimethylbenzene	1,500	4,700	1,500	680	U
95-63-6	1,2,4-Trimethylbenzene	1,500	4,600	1,500	650	U
120-82-1	1,2,4-Trichlorobenzene	2,800	8,800	2,800	1,100	U
91-20-3	Naphthalene	2,700	4,600	2,700	1,100	U
1330-20-7	Xylenes, Total	3,000	8,800	3,000	1,200	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00228

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.10 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 6.43

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	22	9.0	5.5	2.2	
75-71-8	Dichlorodifluoromethane (CFC 12)	8.9	9.0	5.5	1.5	J
74-87-3	Chloromethane	5.5	9.0	5.5	1.5	U
75-01-4	Vinyl Chloride	2.9	9.2	2.9	0.99	U
106-99-0	1,3-Butadiene	5.5	9.0	5.5	1.5	U
75-00-3	Chloroethane	5.5	9.0	5.5	1.1	U
64-17-5	Ethanol	14	92	14	6.4	U
67-64-1	Acetone	47	90	47	21	U
75-69-4	Trichlorofluoromethane	19	8.8	5.5	1.4	
67-63-0	2-Propanol (Isopropyl Alcohol)	11	17	11	3.8	U
75-09-2	Methylene Chloride	5.5	9.0	5.5	2.6	U
76-13-1	Trichlorotrifluoroethane	2,300	23	7.4	3.3	D
75-15-0	Carbon Disulfide	18	17	9.3	2.8	
75-34-3	1,1-Dichloroethane	5.7	9.3	5.7	1.3	U
78-93-3	2-Butanone (MEK)	5.5	17	5.5	1.9	U
141-78-6	Ethyl Acetate	11	17	11	4.8	U
110-54-3	n-Hexane	130	9.0	5.5	1.9	
67-66-3	Chloroform	8.9	9.2	2.9	1.2	J
109-99-9	Tetrahydrofuran (THF)	4.9	17	2.9	1.2	J
107-06-2	1,2-Dichloroethane	2.9	9.0	2.9	1.0	U
71-43-2	Benzene	3.7	9.0	2.9	1.3	J
56-23-5	Carbon Tetrachloride	80	8.8	2.9	1.3	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00228

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.10 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 6.43

Container Dilution Factor: 1.73

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>910</b>	17	5.9	2.6	
75-27-4	Bromodichloromethane	2.9	9.0	2.9	1.3	U
79-01-6	Trichloroethene	<b>6.6</b>	8.8	2.9	1.2	J
123-91-1	1,4-Dioxane	2.9	9.0	2.9	1.1	U
142-82-5	n-Heptane	<b>23</b>	9.0	5.5	1.5	
108-10-1	4-Methyl-2-pentanone	2.9	17	2.9	1.3	U
108-88-3	Toluene	<b>5.2</b>	9.0	2.9	1.1	J
591-78-6	2-Hexanone	2.9	17	2.9	1.1	U
124-48-1	Dibromochloromethane	2.9	9.0	2.9	1.2	U
106-93-4	1,2-Dibromoethane	2.9	9.0	2.9	1.1	U
127-18-4	Tetrachloroethene	<b>18</b>	9.0	2.9	1.2	
100-41-4	Ethylbenzene	2.9	9.0	2.9	1.3	U
179601-23-1	m,p-Xylenes	5.9	17	5.9	2.4	U
75-25-2	Bromoform	5.5	9.2	5.5	1.9	U
100-42-5	Styrene	5.5	9.0	5.5	1.5	U
95-47-6	o-Xylene	<b>3.1</b>	9.2	2.9	1.3	J
108-67-8	1,3,5-Trimethylbenzene	2.9	9.2	2.9	1.3	U
95-63-6	1,2,4-Trimethylbenzene	2.9	9.0	2.9	1.3	U
120-82-1	1,2,4-Trichlorobenzene	5.5	17	5.5	2.2	U
91-20-3	Naphthalene	5.4	9.0	5.4	2.2	U
1330-20-7	Xylenes, Total	<b>3.1</b>	17	5.9	2.4	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00908

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.91 Final Pressure (psig): 7.23

Container Dilution Factor: 1.86

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	5.2	2.4	1.5	0.60	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	2.4	1.5	0.40	J
74-87-3	Chloromethane	12	2.4	1.5	0.40	
75-01-4	Vinyl Chloride	7.8	2.5	0.79	0.27	
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	6.2	2.4	1.5	0.31	
64-17-5	Ethanol	12	25	3.9	1.7	J
67-64-1	Acetone	24	24	13	5.6	J
75-69-4	Trichlorofluoromethane	1.3	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	4.7	2.9	1.0	J
75-09-2	Methylene Chloride	0.88	2.4	1.5	0.70	J
76-13-1	Trichlorotrifluoroethane	99	2.5	0.79	0.35	
75-15-0	Carbon Disulfide	78	4.7	2.5	0.74	
75-34-3	1,1-Dichloroethane	4.7	2.5	1.5	0.36	
78-93-3	2-Butanone (MEK)	5.9	4.7	1.5	0.51	
141-78-6	Ethyl Acetate	4.7	4.7	3.0	1.3	
110-54-3	n-Hexane	43	2.4	1.5	0.51	
67-66-3	Chloroform	0.93	2.5	0.79	0.33	J
109-99-9	Tetrahydrofuran (THF)	26	4.7	0.79	0.31	
107-06-2	1,2-Dichloroethane	2.4	2.4	0.79	0.27	J
71-43-2	Benzene	33	2.4	0.79	0.36	
56-23-5	Carbon Tetrachloride	11	2.4	0.79	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-007

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Simon Cao

Date Analyzed: 11/5/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00908

Initial Pressure (psig): -2.91 Final Pressure (psig): 7.23

Container Dilution Factor: 1.86

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	62	4.7	1.6	0.70	
75-27-4	Bromodichloromethane	0.79	2.4	0.79	0.36	U
79-01-6	Trichloroethene	0.90	2.4	0.79	0.33	J
123-91-1	1,4-Dioxane	1.1	2.4	0.79	0.29	J
142-82-5	n-Heptane	8.2	2.4	1.5	0.40	
108-10-1	4-Methyl-2-pentanone	3.1	4.7	0.79	0.34	J
108-88-3	Toluene	71	2.4	0.79	0.30	
591-78-6	2-Hexanone	0.79	4.7	0.79	0.31	U
124-48-1	Dibromochloromethane	0.79	2.4	0.79	0.33	U
106-93-4	1,2-Dibromoethane	0.79	2.4	0.79	0.29	U
127-18-4	Tetrachloroethene	6.5	2.4	0.79	0.32	
100-41-4	Ethylbenzene	0.36	2.4	0.79	0.35	J
179601-23-1	m,p-Xylenes	0.91	4.7	1.6	0.65	J
75-25-2	Bromoform	1.5	2.5	1.5	0.51	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	0.79	2.5	0.79	0.36	U
108-67-8	1,3,5-Trimethylbenzene	0.79	2.5	0.79	0.36	U
95-63-6	1,2,4-Trimethylbenzene	0.79	2.4	0.79	0.34	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.60	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.60	U
1330-20-7	Xylenes, Total	0.91	4.7	1.6	0.65	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00114

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.31 Final Pressure (psig): 6.24

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.4	1.5	0.60	J
75-71-8	Dichlorodifluoromethane (CFC 12)	10	2.4	1.5	0.40	
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	0.78	2.4	0.78	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	12	24	3.8	1.7	J
67-64-1	Acetone	44	24	12	5.5	
75-69-4	Trichlorofluoromethane	2.9	2.3	1.5	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	0.74	2.4	1.5	0.69	J
76-13-1	Trichlorotrifluoroethane	21	2.4	0.78	0.35	
75-15-0	Carbon Disulfide	3.8	4.6	2.5	0.74	J
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	8.3	4.6	1.5	0.51	
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U
110-54-3	n-Hexane	0.58	2.4	1.5	0.51	J
67-66-3	Chloroform	15	2.4	0.78	0.33	
109-99-9	Tetrahydrofuran (THF)	3.6	4.6	0.78	0.31	J
107-06-2	1,2-Dichloroethane	0.78	2.4	0.78	0.27	U
71-43-2	Benzene	0.44	2.4	0.78	0.35	J
56-23-5	Carbon Tetrachloride	9.1	2.3	0.78	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00114

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/5/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.31 Final Pressure (psig): 6.24

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.6	1.6	0.69	U
75-27-4	Bromodichloromethane	0.78	2.4	0.78	0.35	U
79-01-6	Trichloroethene	0.78	2.3	0.78	0.33	U
123-91-1	1,4-Dioxane	<b>0.73</b>	2.4	0.78	0.29	J
142-82-5	n-Heptane	<b>0.57</b>	2.4	1.5	0.39	J
108-10-1	4-Methyl-2-pentanone	<b>0.41</b>	4.6	0.78	0.34	J
108-88-3	Toluene	<b>1.3</b>	2.4	0.78	0.30	J
591-78-6	2-Hexanone	<b>1.2</b>	4.6	0.78	0.30	J
124-48-1	Dibromochloromethane	0.78	2.4	0.78	0.32	U
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.29	U
127-18-4	Tetrachloroethene	<b>1.7</b>	2.4	0.78	0.32	J
100-41-4	Ethylbenzene	0.78	2.4	0.78	0.35	U
179601-23-1	m,p-Xylenes	<b>1.2</b>	4.6	1.6	0.64	J
75-25-2	Bromoform	1.5	2.4	1.5	0.51	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	<b>0.46</b>	2.4	0.78	0.35	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.38</b>	2.4	0.78	0.35	J
95-63-6	1,2,4-Trimethylbenzene	<b>1.7</b>	2.4	0.78	0.34	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.60	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.60	U
1330-20-7	Xylenes, Total	<b>1.7</b>	4.6	1.6	0.64	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00862

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -5.41 Final Pressure (psig): 6.09

Container Dilution Factor: 2.24

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.8	2.9	1.8	0.73	U
75-71-8	Dichlorodifluoromethane (CFC 12)	13	2.9	1.8	0.49	
74-87-3	Chloromethane	1.8	2.9	1.8	0.48	U
75-01-4	Vinyl Chloride	0.95	3.0	0.95	0.32	U
106-99-0	1,3-Butadiene	1.8	2.9	1.8	0.49	U
75-00-3	Chloroethane	1.8	2.9	1.8	0.37	U
64-17-5	Ethanol	5.4	30	4.6	2.1	J
67-64-1	Acetone	17	29	15	6.7	J
75-69-4	Trichlorofluoromethane	3.5	2.9	1.8	0.45	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.5	5.6	3.5	1.2	U
75-09-2	Methylene Chloride	1.8	2.9	1.8	0.84	U
76-13-1	Trichlorotrifluoroethane	31	3.0	0.95	0.43	
75-15-0	Carbon Disulfide	2.9	5.6	3.0	0.90	J
75-34-3	1,1-Dichloroethane	1.8	3.0	1.8	0.44	U
78-93-3	2-Butanone (MEK)	6.8	5.6	1.8	0.62	
141-78-6	Ethyl Acetate	3.6	5.6	3.6	1.6	U
110-54-3	n-Hexane	1.8	2.9	1.8	0.62	U
67-66-3	Chloroform	21	3.0	0.95	0.40	
109-99-9	Tetrahydrofuran (THF)	7.9	5.6	0.95	0.38	
107-06-2	1,2-Dichloroethane	0.95	2.9	0.95	0.33	U
71-43-2	Benzene	0.48	2.9	0.95	0.43	J
56-23-5	Carbon Tetrachloride	12	2.9	0.95	0.41	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00862

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -5.41 Final Pressure (psig): 6.09

Container Dilution Factor: 2.24

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.9	5.6	1.9	0.84	U
75-27-4	Bromodichloromethane	0.95	2.9	0.95	0.43	U
79-01-6	Trichloroethene	<b>0.84</b>	2.9	0.95	0.40	J
123-91-1	1,4-Dioxane	<b>0.40</b>	2.9	0.95	0.35	J
142-82-5	n-Heptane	1.8	2.9	1.8	0.48	U
108-10-1	4-Methyl-2-pentanone	0.95	5.6	0.95	0.41	U
108-88-3	Toluene	<b>2.2</b>	2.9	0.95	0.36	J
591-78-6	2-Hexanone	0.95	5.6	0.95	0.37	U
124-48-1	Dibromochloromethane	0.95	2.9	0.95	0.39	U
106-93-4	1,2-Dibromoethane	0.95	2.9	0.95	0.35	U
127-18-4	Tetrachloroethene	<b>2.7</b>	2.9	0.95	0.39	J
100-41-4	Ethylbenzene	<b>0.46</b>	2.9	0.95	0.42	J
179601-23-1	m,p-Xylenes	<b>1.5</b>	5.6	1.9	0.78	J
75-25-2	Bromoform	1.8	3.0	1.8	0.62	U
100-42-5	Styrene	1.8	2.9	1.8	0.48	U
95-47-6	o-Xylene	<b>0.69</b>	3.0	0.95	0.43	J
108-67-8	1,3,5-Trimethylbenzene	0.95	3.0	0.95	0.43	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.55</b>	2.9	0.95	0.41	J
120-82-1	1,2,4-Trichlorobenzene	1.8	5.6	1.8	0.73	U
91-20-3	Naphthalene	1.7	2.9	1.7	0.73	U
1330-20-7	Xylenes, Total	<b>2.2</b>	5.6	1.9	0.78	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-010

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Simon Cao

Date Analyzed: 11/6/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00081

Initial Pressure (psig): -3.15 Final Pressure (psig): 7.66

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.1	2.5	1.6	0.63	J
75-71-8	Dichlorodifluoromethane (CFC 12)	12	2.5	1.6	0.42	
74-87-3	Chloromethane	1.6	2.5	1.6	0.42	U
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.5	1.6	0.32	U
64-17-5	Ethanol	34	26	4.0	1.8	
67-64-1	Acetone	33	25	13	5.8	
75-69-4	Trichlorofluoromethane	2.9	2.5	1.6	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.4	4.9	3.1	1.1	J
75-09-2	Methylene Chloride	2.8	2.5	1.6	0.73	
76-13-1	Trichlorotrifluoroethane	24	2.6	0.82	0.37	
75-15-0	Carbon Disulfide	18	4.9	2.6	0.78	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	6.5	4.9	1.6	0.53	
141-78-6	Ethyl Acetate	310	4.9	3.2	1.4	
110-54-3	n-Hexane	0.78	2.5	1.6	0.53	J
67-66-3	Chloroform	1.1	2.6	0.82	0.34	J
109-99-9	Tetrahydrofuran (THF)	7.2	4.9	0.82	0.32	
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.29	U
71-43-2	Benzene	2.1	2.5	0.82	0.37	J
56-23-5	Carbon Tetrachloride	6.6	2.5	0.82	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00081

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.15 Final Pressure (psig): 7.66

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.9	1.6	0.73	U
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	0.82	2.5	0.82	0.35	U
123-91-1	1,4-Dioxane	<b>0.93</b>	2.5	0.82	0.31	J
142-82-5	n-Heptane	<b>0.62</b>	2.5	1.6	0.41	J
108-10-1	4-Methyl-2-pentanone	0.82	4.9	0.82	0.35	U
108-88-3	Toluene	<b>9.7</b>	2.5	0.82	0.32	U
591-78-6	2-Hexanone	0.82	4.9	0.82	0.32	U
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	<b>2.2</b>	2.5	0.82	0.33	J
100-41-4	Ethylbenzene	<b>0.50</b>	2.5	0.82	0.36	J
179601-23-1	m,p-Xylenes	<b>1.7</b>	4.9	1.6	0.68	J
75-25-2	Bromoform	1.6	2.6	1.6	0.53	U
100-42-5	Styrene	1.6	2.5	1.6	0.42	U
95-47-6	o-Xylene	<b>0.65</b>	2.6	0.82	0.37	J
108-67-8	1,3,5-Trimethylbenzene	0.82	2.6	0.82	0.37	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.95</b>	2.5	0.82	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.63	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	U
1330-20-7	Xylenes, Total	<b>2.4</b>	4.9	1.6	0.68	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01067

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -3.81 Final Pressure (psig): 7.47

Container Dilution Factor: 2.04

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	13	21	13	5.3	J
75-71-8	Dichlorodifluoromethane (CFC 12)	17	21	13	3.5	J
74-87-3	Chloromethane	13	21	13	3.5	U
75-01-4	Vinyl Chloride	6.9	22	6.9	2.3	U
106-99-0	1,3-Butadiene	13	21	13	3.6	U
75-00-3	Chloroethane	13	21	13	2.7	U
64-17-5	Ethanol	34	220	34	15	U
67-64-1	Acetone	110	210	110	49	U
75-69-4	Trichlorofluoromethane	5.3	21	13	3.3	J
67-63-0	2-Propanol (Isopropyl Alcohol)	77	41	26	9.0	
75-09-2	Methylene Chloride	13	21	13	6.1	U
76-13-1	Trichlorotrifluoroethane	89	22	6.9	3.1	
75-15-0	Carbon Disulfide	19	41	22	6.5	J
75-34-3	1,1-Dichloroethane	13	22	13	3.2	U
78-93-3	2-Butanone (MEK)	13	41	13	4.5	J
141-78-6	Ethyl Acetate	27	41	27	11	U, L
110-54-3	n-Hexane	49	21	13	4.5	
67-66-3	Chloroform	6.9	22	6.9	2.9	U
109-99-9	Tetrahydrofuran (THF)	4.4	41	6.9	2.7	J
107-06-2	1,2-Dichloroethane	6.9	21	6.9	2.4	U
71-43-2	Benzene	37	21	6.9	3.1	
56-23-5	Carbon Tetrachloride	31	21	6.9	3.0	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01067

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -3.81 Final Pressure (psig): 7.47

Container Dilution Factor: 2.04

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	300	41	14	6.1	
75-27-4	Bromodichloromethane	6.9	21	6.9	3.1	U
79-01-6	Trichloroethene	6.9	21	6.9	2.9	U
123-91-1	1,4-Dioxane	6.9	21	6.9	2.6	U
142-82-5	n-Heptane	13	21	13	3.5	U
108-10-1	4-Methyl-2-pentanone	6.9	41	6.9	3.0	U
108-88-3	Toluene	37	21	6.9	2.7	
591-78-6	2-Hexanone	6.9	41	6.9	2.7	U
124-48-1	Dibromochloromethane	6.9	21	6.9	2.9	U
106-93-4	1,2-Dibromoethane	6.9	21	6.9	2.5	U
127-18-4	Tetrachloroethene	4.2	21	6.9	2.8	J
100-41-4	Ethylbenzene	6.9	21	6.9	3.1	U
179601-23-1	m,p-Xylenes	6.0	41	14	5.7	J
75-25-2	Bromoform	13	22	13	4.5	U
100-42-5	Styrene	13	21	13	3.5	U
95-47-6	o-Xylene	3.8	22	6.9	3.1	J
108-67-8	1,3,5-Trimethylbenzene	6.9	22	6.9	3.1	U
95-63-6	1,2,4-Trimethylbenzene	6.9	21	6.9	3.0	U
120-82-1	1,2,4-Trichlorobenzene	13	41	13	5.3	U
91-20-3	Naphthalene	13	21	13	5.3	U
1330-20-7	Xylenes, Total	9.8	41	14	5.7	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00707

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.22 Final Pressure (psig): 6.13

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.3	2.4	1.4	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	33	2.4	1.4	0.39	
74-87-3	Chloromethane	1.4	2.4	1.4	0.39	U
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	U
106-99-0	1,3-Butadiene	1.4	2.4	1.4	0.40	U
75-00-3	Chloroethane	1.4	2.4	1.4	0.30	U
64-17-5	Ethanol	3.8	24	3.8	1.7	J
67-64-1	Acetone	13	24	12	5.4	J
75-69-4	Trichlorofluoromethane	6.3	2.3	1.4	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.5	2.9	1.0	U
75-09-2	Methylene Chloride	1.4	2.4	1.4	0.68	U
76-13-1	Trichlorotrifluoroethane	36	2.4	0.77	0.34	
75-15-0	Carbon Disulfide	7.8	4.5	2.4	0.72	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	2.2	4.5	1.4	0.50	J
141-78-6	Ethyl Acetate	4.2	4.5	2.9	1.3	J
110-54-3	n-Hexane	0.53	2.4	1.4	0.50	J
67-66-3	Chloroform	0.77	2.4	0.77	0.32	U
109-99-9	Tetrahydrofuran (THF)	1.2	4.5	0.77	0.30	J
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	9.9	2.4	0.77	0.35	
56-23-5	Carbon Tetrachloride	14	2.3	0.77	0.33	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-012

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Simon Cao

Date Analyzed: 11/6/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00707

Initial Pressure (psig): -3.22 Final Pressure (psig): 6.13

Container Dilution Factor: 1.81

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	3.4	4.5	1.5	0.68	J
75-27-4	Bromodichloromethane	0.77	2.4	0.77	0.35	U
79-01-6	Trichloroethene	0.77	2.3	0.77	0.33	U
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	1.4	2.4	1.4	0.38	U
108-10-1	4-Methyl-2-pentanone	0.77	4.5	0.77	0.33	U
108-88-3	Toluene	29	2.4	0.77	0.29	U
591-78-6	2-Hexanone	0.77	4.5	0.77	0.30	U
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.60	2.4	0.77	0.28	J
127-18-4	Tetrachloroethene	2.2	2.4	0.77	0.31	J
100-41-4	Ethylbenzene	1.5	2.4	0.77	0.34	J
179601-23-1	m,p-Xylenes	4.6	4.5	1.5	0.63	U
75-25-2	Bromoform	1.4	2.4	1.4	0.50	U
100-42-5	Styrene	1.4	2.4	1.4	0.39	U
95-47-6	o-Xylene	2.9	2.4	0.77	0.35	U
108-67-8	1,3,5-Trimethylbenzene	0.52	2.4	0.77	0.35	J
95-63-6	1,2,4-Trimethylbenzene	1.1	2.4	0.77	0.33	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.5	1.4	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	7.6	4.5	1.5	0.63	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00141

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.13 Liter(s)

0.035 Liter(s)

Initial Pressure (psig): -3.17 Final Pressure (psig): 8.63

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	23	8.1	5.0	2.0	
75-71-8	Dichlorodifluoromethane (CFC 12)	10	8.1	5.0	1.4	
74-87-3	Chloromethane	5.4	8.1	5.0	1.3	J
75-01-4	Vinyl Chloride	1.2	8.2	2.6	0.89	J
106-99-0	1,3-Butadiene	5.0	8.1	5.0	1.4	U
75-00-3	Chloroethane	5.0	8.1	5.0	1.0	U
64-17-5	Ethanol	14	82	13	5.7	J
67-64-1	Acetone	42	81	42	19	U
75-69-4	Trichlorofluoromethane	3.1	7.9	5.0	1.3	J
67-63-0	2-Propanol (Isopropyl Alcohol)	7.7	16	9.8	3.4	J
75-09-2	Methylene Chloride	5.0	8.1	5.0	2.3	U
76-13-1	Trichlorotrifluoroethane	38	8.2	2.6	1.2	
75-15-0	Carbon Disulfide	29	16	8.4	2.5	
75-34-3	1,1-Dichloroethane	5.1	8.4	5.1	1.2	U
78-93-3	2-Butanone (MEK)	22	16	5.0	1.7	
141-78-6	Ethyl Acetate	10	16	10	4.4	U, L
110-54-3	n-Hexane	1,100	8.1	5.0	1.7	
67-66-3	Chloroform	2.6	8.2	2.6	1.1	U
109-99-9	Tetrahydrofuran (THF)	3.4	16	2.6	1.0	J
107-06-2	1,2-Dichloroethane	2.6	8.1	2.6	0.92	U
71-43-2	Benzene	1,300	8.1	2.6	1.2	
56-23-5	Carbon Tetrachloride	11	7.9	2.6	1.1	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00141

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.13 Liter(s)

0.035 Liter(s)

Initial Pressure (psig): -3.17 Final Pressure (psig): 8.63

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>2,200</b>	16	5.3	2.3	
75-27-4	Bromodichloromethane	2.6	8.1	2.6	1.2	U
79-01-6	Trichloroethene	2.6	7.9	2.6	1.1	U
123-91-1	1,4-Dioxane	2.6	8.1	2.6	0.98	U
142-82-5	n-Heptane	<b>840</b>	8.1	5.0	1.3	
108-10-1	4-Methyl-2-pentanone	2.6	16	2.6	1.1	U
108-88-3	Toluene	<b>2,200</b>	30	9.8	3.8	D
591-78-6	2-Hexanone	2.6	16	2.6	1.0	U
124-48-1	Dibromochloromethane	2.6	8.1	2.6	1.1	U
106-93-4	1,2-Dibromoethane	2.6	8.1	2.6	0.96	U
127-18-4	Tetrachloroethene	<b>1.4</b>	8.1	2.6	1.1	J
100-41-4	Ethylbenzene	<b>150</b>	8.1	2.6	1.2	
179601-23-1	m,p-Xylenes	<b>850</b>	16	5.3	2.2	
75-25-2	Bromoform	5.0	8.2	5.0	1.7	U
100-42-5	Styrene	5.0	8.1	5.0	1.3	U
95-47-6	o-Xylene	<b>480</b>	8.2	2.6	1.2	
108-67-8	1,3,5-Trimethylbenzene	<b>150</b>	8.2	2.6	1.2	
95-63-6	1,2,4-Trimethylbenzene	<b>160</b>	8.1	2.6	1.1	
120-82-1	1,2,4-Trichlorobenzene	5.0	16	5.0	2.0	U
91-20-3	Naphthalene	<b>6.2</b>	8.1	4.8	2.0	J
1330-20-7	Xylenes, Total	<b>1,300</b>	16	5.3	2.2	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00966

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.070 Liter(s)

0.020 Liter(s)

Initial Pressure (psig): -3.47 Final Pressure (psig): 6.41

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	43	14	8.6	3.5	
75-71-8	Dichlorodifluoromethane (CFC 12)	16	14	8.6	2.3	
74-87-3	Chloromethane	7.3	14	8.6	2.3	J
75-01-4	Vinyl Chloride	1.7	14	4.6	1.5	J
106-99-0	1,3-Butadiene	8.6	14	8.6	2.4	U
75-00-3	Chloroethane	1.9	14	8.6	1.8	J
64-17-5	Ethanol	22	140	22	9.9	U
67-64-1	Acetone	73	140	73	32	U
75-69-4	Trichlorofluoromethane	4.8	14	8.6	2.2	J
67-63-0	2-Propanol (Isopropyl Alcohol)	15	27	17	5.9	J
75-09-2	Methylene Chloride	8.6	14	8.6	4.0	U
76-13-1	Trichlorotrifluoroethane	71	14	4.6	2.0	
75-15-0	Carbon Disulfide	51	27	15	4.3	
75-34-3	1,1-Dichloroethane	8.9	15	8.9	2.1	U
78-93-3	2-Butanone (MEK)	14	27	8.6	3.0	J
141-78-6	Ethyl Acetate	17	27	17	7.5	U, L
110-54-3	n-Hexane	2,200	14	8.6	3.0	
67-66-3	Chloroform	4.6	14	4.6	1.9	U
109-99-9	Tetrahydrofuran (THF)	4.4	27	4.6	1.8	J
107-06-2	1,2-Dichloroethane	4.6	14	4.6	1.6	U
71-43-2	Benzene	2,400	14	4.6	2.1	
56-23-5	Carbon Tetrachloride	21	14	4.6	2.0	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV112-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-014

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/6/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.070 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: 1SS00966

Initial Pressure (psig): -3.47 Final Pressure (psig): 6.41

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>4,100</b>	27	9.1	4.0	
75-27-4	Bromodichloromethane	4.6	14	4.6	2.1	U
79-01-6	Trichloroethene	4.6	14	4.6	1.9	U
123-91-1	1,4-Dioxane	4.6	14	4.6	1.7	U
142-82-5	n-Heptane	<b>1,500</b>	14	8.6	2.3	
108-10-1	4-Methyl-2-pentanone	4.6	27	4.6	2.0	U
108-88-3	Toluene	<b>3,700</b>	49	16	6.1	D
591-78-6	2-Hexanone	4.6	27	4.6	1.8	U
124-48-1	Dibromochloromethane	4.6	14	4.6	1.9	U
106-93-4	1,2-Dibromoethane	<b>20</b>	14	4.6	1.7	
127-18-4	Tetrachloroethene	<b>2.4</b>	14	4.6	1.9	J
100-41-4	Ethylbenzene	<b>280</b>	14	4.6	2.0	
179601-23-1	m,p-Xylenes	<b>1,600</b>	27	9.1	3.8	
75-25-2	Bromoform	8.6	14	8.6	3.0	U
100-42-5	Styrene	8.6	14	8.6	2.3	U
95-47-6	o-Xylene	<b>890</b>	14	4.6	2.1	
108-67-8	1,3,5-Trimethylbenzene	<b>280</b>	14	4.6	2.1	
95-63-6	1,2,4-Trimethylbenzene	<b>300</b>	14	4.6	2.0	
120-82-1	1,2,4-Trichlorobenzene	8.6	27	8.6	3.5	U
91-20-3	Naphthalene	<b>14</b>	14	8.3	3.5	
1330-20-7	Xylenes, Total	<b>2,500</b>	27	9.1	3.8	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-015

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Simon Cao

Date Analyzed: 11/6/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00123

Initial Pressure (psig): -3.46 Final Pressure (psig): 6.94

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.63	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>6.9</b>	2.5	1.5	0.42	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.82	2.6	0.82	0.28	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	<b>2.4</b>	26	4.0	1.8	J
67-64-1	Acetone	<b>5.8</b>	25	13	5.8	J
75-69-4	Trichlorofluoromethane	<b>4.4</b>	2.5	1.5	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	<b>25</b>	2.6	0.82	0.37	
75-15-0	Carbon Disulfide	<b>3.2</b>	4.8	2.6	0.77	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	<b>0.80</b>	4.8	1.5	0.53	J
141-78-6	Ethyl Acetate	<b>10</b>	4.8	3.1	1.4	
110-54-3	n-Hexane	<b>0.83</b>	2.5	1.5	0.53	J
67-66-3	Chloroform	<b>1.1</b>	2.6	0.82	0.34	J
109-99-9	Tetrahydrofuran (THF)	<b>0.86</b>	4.8	0.82	0.32	J
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	<b>0.50</b>	2.5	0.82	0.37	J
56-23-5	Carbon Tetrachloride	<b>9.5</b>	2.5	0.82	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00123

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.46 Final Pressure (psig): 6.94

Container Dilution Factor: 1.93

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.8	1.6	0.72	U
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	0.82	2.5	0.82	0.35	U
123-91-1	1,4-Dioxane	<b>2.2</b>	2.5	0.82	0.30	J
142-82-5	n-Heptane	<b>0.65</b>	2.5	1.5	0.41	J
108-10-1	4-Methyl-2-pentanone	0.82	4.8	0.82	0.35	U
108-88-3	Toluene	<b>0.48</b>	2.5	0.82	0.31	J
591-78-6	2-Hexanone	0.82	4.8	0.82	0.32	U
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	<b>0.60</b>	2.5	0.82	0.33	J
100-41-4	Ethylbenzene	0.82	2.5	0.82	0.36	U
179601-23-1	m,p-Xylenes	1.6	4.8	1.6	0.68	U
75-25-2	Bromoform	1.5	2.6	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	0.82	2.6	0.82	0.37	U
108-67-8	1,3,5-Trimethylbenzene	0.82	2.6	0.82	0.37	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.49</b>	2.5	0.82	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.63	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	U
1330-20-7	Xylenes, Total	1.6	4.8	1.6	0.68	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00670

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 6.73

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.3	1.4	0.57	J
75-71-8	Dichlorodifluoromethane (CFC 12)	8.6	2.3	1.4	0.38	
74-87-3	Chloromethane	0.40	2.3	1.4	0.38	J
75-01-4	Vinyl Chloride	0.74	2.3	0.74	0.25	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	1.4	2.3	1.4	0.29	U
64-17-5	Ethanol	12	23	3.6	1.6	J
67-64-1	Acetone	54	23	12	5.3	
75-69-4	Trichlorofluoromethane	5.5	2.2	1.4	0.35	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.8	4.4	2.8	0.96	J
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.66	U
76-13-1	Trichlorotrifluoroethane	33	2.3	0.74	0.33	
75-15-0	Carbon Disulfide	3.4	4.4	2.4	0.70	J
75-34-3	1,1-Dichloroethane	1.4	2.4	1.4	0.34	U
78-93-3	2-Butanone (MEK)	12	4.4	1.4	0.48	
141-78-6	Ethyl Acetate	15	4.4	2.8	1.2	
110-54-3	n-Hexane	1.2	2.3	1.4	0.48	J
67-66-3	Chloroform	1.7	2.3	0.74	0.31	J
109-99-9	Tetrahydrofuran (THF)	32	4.4	0.74	0.29	
107-06-2	1,2-Dichloroethane	0.74	2.3	0.74	0.26	U
71-43-2	Benzene	0.59	2.3	0.74	0.34	J
56-23-5	Carbon Tetrachloride	12	2.2	0.74	0.32	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00670

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.46 Final Pressure (psig): 6.73

Container Dilution Factor: 1.75

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.4	1.5	0.66	U
75-27-4	Bromodichloromethane	0.74	2.3	0.74	0.34	U
79-01-6	Trichloroethene	0.74	2.2	0.74	0.32	U
123-91-1	1,4-Dioxane	1.1	2.3	0.74	0.28	J
142-82-5	n-Heptane	0.97	2.3	1.4	0.37	J
108-10-1	4-Methyl-2-pentanone	0.70	4.4	0.74	0.32	J
108-88-3	Toluene	9.9	2.3	0.74	0.28	U
591-78-6	2-Hexanone	1.9	4.4	0.74	0.29	J
124-48-1	Dibromochloromethane	0.74	2.3	0.74	0.31	U
106-93-4	1,2-Dibromoethane	0.74	2.3	0.74	0.27	U
127-18-4	Tetrachloroethene	0.45	2.3	0.74	0.30	J
100-41-4	Ethylbenzene	0.74	2.3	0.74	0.33	U
179601-23-1	m,p-Xylenes	1.5	4.4	1.5	0.61	U
75-25-2	Bromoform	1.4	2.3	1.4	0.48	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	0.74	2.3	0.74	0.34	U
108-67-8	1,3,5-Trimethylbenzene	0.74	2.3	0.74	0.34	U
95-63-6	1,2,4-Trimethylbenzene	0.57	2.3	0.74	0.32	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.57	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.57	U
1330-20-7	Xylenes, Total	1.5	4.4	1.5	0.61	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV118-160-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-017

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/6/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0050 Liter(s)

Test Notes:

Container ID: 1SC00144

Initial Pressure (psig): -2.57 Final Pressure (psig): 5.35

Container Dilution Factor: 1.65

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	150	170	110	43	J
75-71-8	Dichlorodifluoromethane (CFC 12)	110	170	110	29	U
74-87-3	Chloromethane	110	170	110	28	U
75-01-4	Vinyl Chloride	56	170	56	19	U
106-99-0	1,3-Butadiene	110	170	110	29	U
75-00-3	Chloroethane	110	170	110	22	U
64-17-5	Ethanol	270	1,700	270	120	U
67-64-1	Acetone	890	1,700	890	400	U
75-69-4	Trichlorofluoromethane	110	170	110	27	U
67-63-0	2-Propanol (Isopropyl Alcohol)	210	330	210	73	U
75-09-2	Methylene Chloride	110	170	110	50	U
76-13-1	Trichlorotrifluoroethane	110	170	56	25	J
75-15-0	Carbon Disulfide	180	330	180	53	U
75-34-3	1,1-Dichloroethane	110	180	110	26	U
78-93-3	2-Butanone (MEK)	110	330	110	36	U
141-78-6	Ethyl Acetate	210	330	210	92	U, L
110-54-3	n-Hexane	1,300	170	110	36	
67-66-3	Chloroform	56	170	56	23	U
109-99-9	Tetrahydrofuran (THF)	56	330	56	22	U
107-06-2	1,2-Dichloroethane	56	170	56	19	U
71-43-2	Benzene	48	170	56	25	J
56-23-5	Carbon Tetrachloride	30	170	56	24	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-160-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00144

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.0050 Liter(s)

Initial Pressure (psig): -2.57 Final Pressure (psig): 5.35

Container Dilution Factor: 1.65

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>16,000</b>	330	110	50	
75-27-4	Bromodichloromethane	56	170	56	25	U
79-01-6	Trichloroethene	56	170	56	24	U
123-91-1	1,4-Dioxane	56	170	56	21	U
142-82-5	n-Heptane	<b>110</b>	170	110	28	J
108-10-1	4-Methyl-2-pentanone	56	330	56	24	U
108-88-3	Toluene	56	170	56	21	U
591-78-6	2-Hexanone	56	330	56	22	U
124-48-1	Dibromochloromethane	56	170	56	23	U
106-93-4	1,2-Dibromoethane	56	170	56	20	U
127-18-4	Tetrachloroethene	<b>39</b>	170	56	23	J
100-41-4	Ethylbenzene	56	170	56	25	U
179601-23-1	m,p-Xylenes	110	330	110	46	U
75-25-2	Bromoform	110	170	110	36	U
100-42-5	Styrene	110	170	110	28	U
95-47-6	o-Xylene	56	170	56	25	U
108-67-8	1,3,5-Trimethylbenzene	56	170	56	25	U
95-63-6	1,2,4-Trimethylbenzene	56	170	56	24	U
120-82-1	1,2,4-Trichlorobenzene	110	330	110	43	U
91-20-3	Naphthalene	100	170	100	43	U
1330-20-7	Xylenes, Total	110	330	110	46	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-265-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00595

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 6.27

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	450	490	300	120	J
75-71-8	Dichlorodifluoromethane (CFC 12)	300	490	300	82	U
74-87-3	Chloromethane	300	490	300	81	U
75-01-4	Vinyl Chloride	160	500	160	54	U
106-99-0	1,3-Butadiene	300	490	300	83	U
75-00-3	Chloroethane	300	490	300	62	U
64-17-5	Ethanol	780	5,000	780	350	U
67-64-1	Acetone	2,600	4,900	2,600	1,100	U
75-69-4	Trichlorofluoromethane	300	480	300	77	U
67-63-0	2-Propanol (Isopropyl Alcohol)	600	950	600	210	U
75-09-2	Methylene Chloride	300	490	300	140	U
76-13-1	Trichlorotrifluoroethane	83	500	160	72	J
75-15-0	Carbon Disulfide	510	950	510	150	U
75-34-3	1,1-Dichloroethane	310	510	310	74	U
78-93-3	2-Butanone (MEK)	300	950	300	100	U
141-78-6	Ethyl Acetate	610	950	610	260	U, L
110-54-3	n-Hexane	20,000	490	300	100	
67-66-3	Chloroform	160	500	160	67	U
109-99-9	Tetrahydrofuran (THF)	160	950	160	63	U
107-06-2	1,2-Dichloroethane	160	490	160	56	U
71-43-2	Benzene	100	490	160	73	J
56-23-5	Carbon Tetrachloride	160	480	160	70	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-265-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00595

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -3.63 Final Pressure (psig): 6.27

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>81,000</b>	950	320	140	
75-27-4	Bromodichloromethane	160	490	160	73	U
79-01-6	Trichloroethene	160	480	160	68	U
123-91-1	1,4-Dioxane	160	490	160	60	U
142-82-5	n-Heptane	<b>230</b>	490	300	80	J
108-10-1	4-Methyl-2-pentanone	160	950	160	69	U
108-88-3	Toluene	<b>130</b>	490	160	61	J
591-78-6	2-Hexanone	160	950	160	62	U
124-48-1	Dibromochloromethane	160	490	160	66	U
106-93-4	1,2-Dibromoethane	160	490	160	59	U
127-18-4	Tetrachloroethene	<b>73</b>	490	160	65	J
100-41-4	Ethylbenzene	160	490	160	71	U
179601-23-1	m,p-Xylenes	320	950	320	130	U
75-25-2	Bromoform	300	500	300	100	U
100-42-5	Styrene	300	490	300	81	U
95-47-6	o-Xylene	160	500	160	73	U
108-67-8	1,3,5-Trimethylbenzene	160	500	160	73	U
95-63-6	1,2,4-Trimethylbenzene	160	490	160	70	U
120-82-1	1,2,4-Trichlorobenzene	300	950	300	120	U
91-20-3	Naphthalene	290	490	290	120	U
1330-20-7	Xylenes, Total	320	950	320	130	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01012

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.0010 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 5.13

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>1,200</b>	840	520	210	
75-71-8	Dichlorodifluoromethane (CFC 12)	520	840	520	140	U
74-87-3	Chloromethane	520	840	520	140	U
75-01-4	Vinyl Chloride	280	860	280	92	U
106-99-0	1,3-Butadiene	520	840	520	140	U
75-00-3	Chloroethane	520	840	520	110	U
64-17-5	Ethanol	1,300	8,600	1,300	600	U
67-64-1	Acetone	4,400	8,400	4,400	1,900	U
75-69-4	Trichlorofluoromethane	520	830	520	130	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,000	1,600	1,000	360	U
75-09-2	Methylene Chloride	520	840	520	240	U
76-13-1	Trichlorotrifluoroethane	<b>140</b>	860	280	120	J
75-15-0	Carbon Disulfide	870	1,600	870	260	U
75-34-3	1,1-Dichloroethane	530	870	530	130	U
78-93-3	2-Butanone (MEK)	520	1,600	520	180	U
141-78-6	Ethyl Acetate	1,100	1,600	1,100	450	U, L
110-54-3	n-Hexane	<b>60,000</b>	840	520	180	
67-66-3	Chloroform	280	860	280	120	U
109-99-9	Tetrahydrofuran (THF)	280	1,600	280	110	U
107-06-2	1,2-Dichloroethane	280	840	280	96	U
71-43-2	Benzene	<b>150</b>	840	280	120	J
56-23-5	Carbon Tetrachloride	280	830	280	120	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01012

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.0010 Liter(s)

Initial Pressure (psig): -2.49 Final Pressure (psig): 5.13

Container Dilution Factor: 1.62

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>270,000</b>	1,600	550	240	
75-27-4	Bromodichloromethane	280	840	280	120	U
79-01-6	Trichloroethene	280	830	280	120	U
123-91-1	1,4-Dioxane	280	840	280	100	U
142-82-5	n-Heptane	<b>760</b>	840	520	140	J
108-10-1	4-Methyl-2-pentanone	280	1,600	280	120	U
108-88-3	Toluene	280	840	280	110	U
591-78-6	2-Hexanone	280	1,600	280	110	U
124-48-1	Dibromochloromethane	280	840	280	110	U
106-93-4	1,2-Dibromoethane	280	840	280	100	U
127-18-4	Tetrachloroethene	280	840	280	110	U
100-41-4	Ethylbenzene	280	840	280	120	U
179601-23-1	m,p-Xylenes	550	1,600	550	230	U
75-25-2	Bromoform	520	860	520	180	U
100-42-5	Styrene	520	840	520	140	U
95-47-6	o-Xylene	<b>150</b>	860	280	120	J
108-67-8	1,3,5-Trimethylbenzene	280	860	280	120	U
95-63-6	1,2,4-Trimethylbenzene	280	840	280	120	U
120-82-1	1,2,4-Trichlorobenzene	520	1,600	520	210	U
91-20-3	Naphthalene	500	840	500	210	U
1330-20-7	Xylenes, Total	550	1,600	550	230	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00008

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -3.81 Final Pressure (psig): 8.07

Container Dilution Factor: 2.09

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	29	27	17	6.8	
75-71-8	Dichlorodifluoromethane (CFC 12)	4.5	27	17	4.5	J
74-87-3	Chloromethane	49	27	17	4.5	
75-01-4	Vinyl Chloride	11	28	8.9	3.0	J
106-99-0	1,3-Butadiene	17	27	17	4.6	U
75-00-3	Chloroethane	7.8	27	17	3.4	J
64-17-5	Ethanol	43	280	43	19	U
67-64-1	Acetone	140	270	140	63	U
75-69-4	Trichlorofluoromethane	7.5	27	17	4.2	J
67-63-0	2-Propanol (Isopropyl Alcohol)	33	52	33	11	U
75-09-2	Methylene Chloride	17	27	17	7.8	U
76-13-1	Trichlorotrifluoroethane	17	28	8.9	4.0	J
75-15-0	Carbon Disulfide	350	52	28	8.4	
75-34-3	1,1-Dichloroethane	6.7	28	17	4.1	J
78-93-3	2-Butanone (MEK)	17	52	17	5.7	U
141-78-6	Ethyl Acetate	34	52	34	15	U, L
110-54-3	n-Hexane	810	27	17	5.7	
67-66-3	Chloroform	9.1	28	8.9	3.7	J
109-99-9	Tetrahydrofuran (THF)	68	52	8.9	3.5	
107-06-2	1,2-Dichloroethane	8.9	27	8.9	3.1	U
71-43-2	Benzene	69	27	8.9	4.0	
56-23-5	Carbon Tetrachloride	90	27	8.9	3.9	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

ALS Sample ID: P2006066-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00008

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/6/20

Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -3.81 Final Pressure (psig): 8.07

Container Dilution Factor: 2.09

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	9,400	52	18	7.8	
75-27-4	Bromodichloromethane	8.9	27	8.9	4.0	U
79-01-6	Trichloroethene	8.9	27	8.9	3.8	U
123-91-1	1,4-Dioxane	8.9	27	8.9	3.3	U
142-82-5	n-Heptane	11	27	17	4.4	J
108-10-1	4-Methyl-2-pentanone	8.9	52	8.9	3.8	U
108-88-3	Toluene	350	27	8.9	3.4	
591-78-6	2-Hexanone	8.9	52	8.9	3.4	U
124-48-1	Dibromochloromethane	8.9	27	8.9	3.7	U
106-93-4	1,2-Dibromoethane	8.9	27	8.9	3.2	U
127-18-4	Tetrachloroethene	8.9	27	8.9	3.6	U
100-41-4	Ethylbenzene	13	27	8.9	3.9	J
179601-23-1	m,p-Xylenes	23	52	18	7.3	J
75-25-2	Bromoform	17	28	17	5.7	U
100-42-5	Styrene	17	27	17	4.5	U
95-47-6	o-Xylene	20	28	8.9	4.0	J
108-67-8	1,3,5-Trimethylbenzene	9.2	28	8.9	4.0	J
95-63-6	1,2,4-Trimethylbenzene	8.9	27	8.9	3.9	U
120-82-1	1,2,4-Trichlorobenzene	17	52	17	6.8	U
91-20-3	Naphthalene	16	27	16	6.8	U
1330-20-7	Xylenes, Total	43	52	18	7.3	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201105-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201105-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201106-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/6/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U, L
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201106-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/6/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date(s) Collected: 10/19/20

Analyst: Simon Cao/Topacio De Leon

Date(s) Received: 10/26/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 11/5 - 11/6/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201105-MB	105	103	104	70-130	
Method Blank	P201106-MB	100	102	103	70-130	
Lab Control Sample	P201105-LCS	103	98	103	70-130	
Lab Control Sample	P201106-LCS	101	99	101	70-130	
Duplicate Lab Control Sample	P201105-DLCS	102	98	102	70-130	
Duplicate Lab Control Sample	P201106-DLCS	101	98	101	70-130	
SV108-025-204	P2006066-001	104	101	105	70-130	
SV108-050-204	P2006066-002	102	99	106	70-130	
SV108-150-204	P2006066-003	103	101	104	70-130	
SV108-250-204	P2006066-004	103	100	103	70-130	
SV108-350-204	P2006066-005	103	100	106	70-130	
SV108-450-204	P2006066-007	103	100	106	70-130	
SV112-025-204	P2006066-008	103	98	107	70-130	
SV112-050-204	P2006066-009	101	100	107	70-130	
SV112-150-204	P2006066-010	102	99	106	70-130	
SV112-250-204	P2006066-011	104	98	100	70-130	
SV112-350-204	P2006066-012	102	100	107	70-130	
SV112-450-604	P2006066-013	103	92	95	70-130	
SV112-450-204	P2006066-014	105	91	93	70-130	
SV118-025-204	P2006066-015	103	100	107	70-130	
SV118-050-204	P2006066-016	102	100	106	70-130	
SV118-160-204	P2006066-017	104	98	100	70-130	
SV118-265-204	P2006066-018	103	101	101	70-130	
SV118-350-204	P2006066-019	103	98	99	70-130	
SV118-450-204	P2006066-020	104	98	99	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201105-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	210	181	178	86	85	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	206	206	98	98	59-128	0	25	
74-87-3	Chloromethane	206	206	205	100	100	59-132	0	25	
75-01-4	Vinyl Chloride	208	210	212	101	102	64-127	1	25	
106-99-0	1,3-Butadiene	210	231	231	110	110	66-134	0	25	
75-00-3	Chloroethane	204	193	192	95	94	63-127	1	25	
64-17-5	Ethanol	998	866	872	87	87	59-125	0	25	
67-64-1	Acetone	1,030	892	890	87	86	58-128	1	25	
75-69-4	Trichlorofluoromethane	204	203	204	100	100	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	391	401	96	98	52-125	2	25	
75-09-2	Methylene Chloride	208	201	200	97	96	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	214	211	211	99	99	66-126	0	25	
75-15-0	Carbon Disulfide	428	413	412	96	96	57-134	0	25	
75-34-3	1,1-Dichloroethane	212	201	200	95	94	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	416	414	101	100	67-130	1	25	
141-78-6	Ethyl Acetate	422	542	537	128	127	65-128	0.8	25	
110-54-3	n-Hexane	212	188	188	89	89	63-120	0	25	
67-66-3	Chloroform	214	205	205	96	96	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	400	386	382	97	96	64-123	1	25	
107-06-2	1,2-Dichloroethane	208	212	211	102	101	65-128	1	25	
71-43-2	Benzene	204	196	195	96	96	69-119	0	25	
56-23-5	Carbon Tetrachloride	210	207	205	99	98	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201105-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/5/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	402	400		97	96	70-117	1	25
75-27-4	Bromodichloromethane	210	213	212		101	101	72-128	0	25
79-01-6	Trichloroethene	206	198	197		96	96	71-123	0	25
123-91-1	1,4-Dioxane	208	214	214		103	103	71-122	0	25
142-82-5	n-Heptane	210	200	199		95	95	69-123	0	25
108-10-1	4-Methyl-2-pentanone	416	436	434		105	104	67-130	1	25
108-88-3	Toluene	206	196	196		95	95	66-119	0	25
591-78-6	2-Hexanone	404	431	430		107	106	62-128	0.9	25
124-48-1	Dibromochloromethane	210	221	221		105	105	70-130	0	25
106-93-4	1,2-Dibromoethane	208	215	215		103	103	74-122	0	25
127-18-4	Tetrachloroethene	206	201	200		98	97	66-124	1	25
100-41-4	Ethylbenzene	206	204	204		99	99	70-124	0	25
179601-23-1	m,p-Xylenes	412	412	410		100	100	61-134	0	25
75-25-2	Bromoform	208	230	229		111	110	66-139	0.9	25
100-42-5	Styrene	206	218	218		106	106	73-127	0	25
95-47-6	o-Xylene	206	205	206		100	100	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	206	206	206		100	100	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	204	207	207		101	101	66-132	0	25
120-82-1	1,2,4-Trichlorobenzene	388	396	402		102	104	55-142	2	25
91-20-3	Naphthalene	198	203	209		103	106	57-138	3	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201106-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/6/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier	
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD		RPD Limit
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$						
115-07-1	Propene	210	185	186		<b>88</b>	<b>89</b>	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	201	204		<b>96</b>	<b>97</b>	59-128	1	25	
74-87-3	Chloromethane	206	195	197		<b>95</b>	<b>96</b>	59-132	1	25	
75-01-4	Vinyl Chloride	208	220	219		<b>106</b>	<b>105</b>	64-127	0.9	25	
106-99-0	1,3-Butadiene	210	240	239		<b>114</b>	<b>114</b>	66-134	0	25	
75-00-3	Chloroethane	204	196	196		<b>96</b>	<b>96</b>	63-127	0	25	
64-17-5	Ethanol	998	889	897		<b>89</b>	<b>90</b>	59-125	1	25	
67-64-1	Acetone	1,030	914	914		<b>89</b>	<b>89</b>	58-128	0	25	
75-69-4	Trichlorofluoromethane	204	198	200		<b>97</b>	<b>98</b>	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	406	405		<b>100</b>	<b>99</b>	52-125	1	25	
75-09-2	Methylene Chloride	208	203	204		<b>98</b>	<b>98</b>	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	214	206	208		<b>96</b>	<b>97</b>	66-126	1	25	
75-15-0	Carbon Disulfide	428	422	419		<b>99</b>	<b>98</b>	57-134	1	25	
75-34-3	1,1-Dichloroethane	212	202	202		<b>95</b>	<b>95</b>	68-126	0	25	
78-93-3	2-Butanone (MEK)	412	422	423		<b>102</b>	<b>103</b>	67-130	1	25	
141-78-6	Ethyl Acetate	422	556	554		<b>132</b>	<b>131</b>	65-128	0.8	25	<b>L</b>
110-54-3	n-Hexane	212	194	195		<b>92</b>	<b>92</b>	63-120	0	25	
67-66-3	Chloroform	214	204	205		<b>95</b>	<b>96</b>	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	400	395	390		<b>99</b>	<b>98</b>	64-123	1	25	
107-06-2	1,2-Dichloroethane	208	208	209		<b>100</b>	<b>100</b>	65-128	0	25	
71-43-2	Benzene	204	199	197		<b>98</b>	<b>97</b>	69-119	1	25	
56-23-5	Carbon Tetrachloride	210	201	201		<b>96</b>	<b>96</b>	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.  
 L = Laboratory control sample recovery outside the specified limits, results may be biased high.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006066  
 ALS Sample ID: P201106-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/6/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	406	404	98	97	70-117	1	25	
75-27-4	Bromodichloromethane	210	211	211	100	100	72-128	0	25	
79-01-6	Trichloroethene	206	197	196	96	95	71-123	1	25	
123-91-1	1,4-Dioxane	208	216	215	104	103	71-122	1	25	
142-82-5	n-Heptane	210	204	202	97	96	69-123	1	25	
108-10-1	4-Methyl-2-pentanone	416	447	442	107	106	67-130	0.9	25	
108-88-3	Toluene	206	198	197	96	96	66-119	0	25	
591-78-6	2-Hexanone	404	444	440	110	109	62-128	0.9	25	
124-48-1	Dibromochloromethane	210	221	219	105	104	70-130	1	25	
106-93-4	1,2-Dibromoethane	208	218	217	105	104	74-122	1	25	
127-18-4	Tetrachloroethene	206	201	200	98	97	66-124	1	25	
100-41-4	Ethylbenzene	206	206	205	100	100	70-124	0	25	
179601-23-1	m,p-Xylenes	412	413	410	100	100	61-134	0	25	
75-25-2	Bromoform	208	228	228	110	110	66-139	0	25	
100-42-5	Styrene	206	221	220	107	107	73-127	0	25	
95-47-6	o-Xylene	206	207	205	100	100	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	206	205	205	100	100	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	204	207	206	101	101	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	388	400	406	103	105	55-142	2	25	
91-20-3	Naphthalene	198	208	213	105	108	57-138	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2006066  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 11052001.D  
Analyst: Simon Cao Date Analyzed: 11/5/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 15:21  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	183426	9.16	785029	11.12	333806	15.45
<b>Upper Limit</b>	256796	9.49	1099041	11.45	467328	15.78
<b>Lower Limit</b>	110056	8.83	471017	10.79	200284	15.12

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
01	Method Blank	162737	9.13	712373 11.10 290250 15.45
02	Lab Control Sample	176391	9.16	751894 11.11 318169 15.45
03	Duplicate Lab Control Sample	177236	9.16	755791 11.11 319485 15.45
04	SV108-150-204	179213	9.13	776153 11.10 320632 15.45
05	SV108-250-204	178055	9.13	772551 11.10 321422 15.45
06	SV108-350-204 (Dilution)	169445	9.13	730657 11.10 294966 15.45
07	SV108-025-204	178925	9.13	773454 11.10 320822 15.45
08	SV108-050-204	171077	9.13	736719 11.10 310976 15.45
09	SV108-350-204	171960	9.13	744508 11.10 309435 15.45
10	SV108-450-204	170325	9.13	736529 11.10 305163 15.45
11	SV112-025-204	171130	9.13	737731 11.10 313627 15.45
12	SV112-050-204	176022	9.13	753778 11.10 312698 15.45
13	SV112-150-204	172844	9.13	749258 11.11 312915 15.45
14	SV112-350-204	169241	9.13	732323 11.10 304790 15.45
15	SV118-025-204	171065	9.13	740177 11.10 309396 15.45
16	SV118-050-204	174913	9.13	749265 11.10 313134 15.45
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2006066  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 11062001.D  
Analyst: Simon Cao Date Analyzed: 11/6/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 05:43  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	192776	9.16	822195	11.11	343260	15.45
<b>Upper Limit</b>	269886	9.49	1151073	11.44	480564	15.78
<b>Lower Limit</b>	115666	8.83	493317	10.78	205956	15.12

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
		AREA #	RT #	AREA #
01	Method Blank	175447	9.13	754162
02	Lab Control Sample	188068	9.16	804935
03	Duplicate Lab Control Sample	187377	9.16	804964
04	SV112-250-204	188421	9.13	829492
05	SV112-450-604 (Dilution)	187962	9.13	815188
06	SV112-450-604	190692	9.14	826990
07	SV112-450-204	187338	9.14	819034
08	SV118-160-204	195683	9.13	848946
09	SV112-450-204 (Dilution)	191202	9.13	829601
10	SV118-265-204	204710	9.13	881269
11	SV118-350-204	203142	9.13	883247
12	SV118-450-204	195627	9.13	847645
13				
14				
15				
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

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# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



2655 Park Center Dr., Suite A  
Simi Valley, CA 93065  
T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

November 12, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the sample(s) submitted to our laboratory on October 26, 2020. For your reference, these analyses have been assigned our service request number P2006070.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*Kate Kaneko*  
Nov 12, 2020, 3:26 pm

Kate Kaneko  
Project Manager

---

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2655 Park Center Dr., Suite A  
 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2006070

## CASE NARRATIVE

The samples were received intact under chain of custody on October 26, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2006070-008, 018	Propene
P2006070-009, 011, 012	Acetone
P2006070-015	2-Hexanone

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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[www.alsglobal.com](http://www.alsglobal.com)

## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.



**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-03**

Requested Turnaround Time in Business Days: **10 Day-Standard**

ALS Project No. **P2006070**

Company Name & Address (Reporting Information):  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

Project Name: **Kirtland AFB Bulk Fuels Facility**

Project Number: **62735DM02**

P.O. # / Billing Information: **17882**

Sampler (Print & Sign): *Amy Rosebrough*

Tara Lamond: [tiamond@eaest.com](mailto:tiamond@eaest.com)

Amanda Smith: [asmith@eaest.com](mailto:asmith@eaest.com)

Pam Moss: [pmoss@eaest.com](mailto:pmoss@eaest.com)

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure <sup>in</sup> Hg	Canister End Pressure <sup>in</sup> Hg/psig	Sample Volume	Comments e.g. Actual Preservative or specific instructions
SV118-450-804		10/18/2020	1013	1SS00219	NA	-25.0	-1.5	1L	None
SV119-025-204		10/20/2020	1325	1SS00008	NA	-25.0	-2.5	1L	None
SV119-050-204		10/20/2020	1327	1SS00026	NA	-27.0	-2.5	1L	None
SV119-150-204		10/20/2020	1330	1SS00146	NA	-24.0	-5.0	1L	None
SV119-250-204		10/20/2020	1333	1SC00749	NA	-26.0	-1.0	1L	None
SV119-350-204		10/20/2020	1337	1SC00648	NA	-26.0	0.0	1L	None
SV119-450-204		10/20/2020	1345	1SS00169	NA	-26.0	-2.0	1L	None
SV126-025-204		10/20/2020	1239	1SC00007	NA	-23.0	-2.0	1L	None
SV126-050-204		10/20/2020	1241	1SC00030	NA	-24.0	-2.5	1L	None
SV126-150-204		10/20/2020	1243	1SS00248	NA	-25.0	-2.5	1L	None

FedEX Tracking Number: **1020 3402 6289**

Shipping information: Box number **2** of **5**

Report Tier Levels - please select  
 Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package)  X

Relinquished by: (Signature) *[Signature]* Date: **10/21/20** Time: **1300**

Relinquished by: (Signature) *[Signature]* Date: \_\_\_\_\_ Time: \_\_\_\_\_

EDD required: Yes  
 Type: ERPIMS / EQUIS

Chain of Custody Seal: (Circle)  
 INTACT  BROKEN  ABSENT

Received by: (Signature) *[Signature]* Date: **10/19/20** Time: **0945**

Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Project Requirements: QAPP

Cooler / Blank Temperature NA °C

Analysis Method  
 TO-15 Project Specific List

ALS Contact: Kata Kaneko  
 1 (805) 577-2089

1 2 3 4 5 6 7 8 9 10



### Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**COC #:** **COC-SV204-04**

**Requested Turnaround Time in Business Days**  
 10 Day-Standard

ALS Project No.  
**Y2006070**

<b>Company Name &amp; Address (Reporting Information)</b> EA Engineering, Science, and Technology, Inc., PBC 228 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000		<b>Project Name</b> Kirtland AFB Bulk Fuels Facility		<b>ALS Contact:</b> Kate Karneko 1 (805) 577-2089		<b>Comments</b> e.g. Actual Preservative or specific instructions			
<b>Project Manager / Project Chemist</b> Devon Jericovic (505) 715-4248 / Pam Moss (303) 590-9143 Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaeast.com">tlamond@eaeast.com</a> Amanda Smith: <a href="mailto:asmith@eaeast.com">asmith@eaeast.com</a> Pam Moss: <a href="mailto:pmoss@eaeast.com">pmoss@eaeast.com</a>		<b>Project Number</b> 62735DM02		<b>Analysis Method</b> TO-15 Project Specific List					
<b>Project Manager / Project Chemist</b> Devon Jericovic (505) 715-4248 / Pam Moss (303) 590-9143 Email Address for Result Reporting Tara Lamond: <a href="mailto:tlamond@eaeast.com">tlamond@eaeast.com</a> Amanda Smith: <a href="mailto:asmith@eaeast.com">asmith@eaeast.com</a> Pam Moss: <a href="mailto:pmoss@eaeast.com">pmoss@eaeast.com</a>		<b>P.O. # / Billing Information</b> 17682		<b>Sampler (Print &amp; Sign)</b> <i>Amy Rosebrough</i>					
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Comments
11 SV126-250-204		10/20/2020	1246	1SS00986	NA	-25.0	-2.5	1L	None
12 SV126-350-204		10/20/2020	1248	1SC01139	NA	-26.0	-1.5	1L	None
13 SV126-450-204		10/20/2020	1256	1SC00697	NA	-26.0	-1.5	1L	None
14 SV129-025-204		10/19/2020	1211	1SC00733	AVG05062	-25.0	0.0	1L	None
15 SV129-050-204		10/19/2020	1214	1SC00332	NA	-27.0	-2.5	1L	None
16 SV129-150-204		10/19/2020	1216	1SC01270	NA	-24.0	-2.5	1L	None
17 SV129-250-204		10/19/2020	1219	1SC00612	NA	-28.0	-5.0	1L	None
18 SV129-350-204		10/19/2020	1222	1SS00790	NA	-26.5	-4.0	1L	None
19 SV126-450-204		10/19/2020	1231	1SC01089	NA	-25.5	-1.5	1L	None
20 SV130-025-204		10/20/2020	1149	1SS01025	NA	-26.0	-5.0	1L	None
FedEX Tracking Number: <b>1028 3402 6289</b>									
Shipping information: Box number 2 of 5									
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/>									
Relinquished by: (Signature) <i>[Signature]</i>		Date: 10/12/20 Time: 1300		Received by: (Signature) <i>[Signature]</i>		Date: 10/26/20 Time: 0945		Chain of Custody Seal: (Circle) INTACT <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> ABSENT	
Relinquished by: (Signature)		Date:		Received by: (Signature)		Date:		Requirements: QAPP	
								Cooler / Blank Temperature NA °C	

Associated with Trip blank: SVTB204-03

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2006070  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/26/20 Date opened: 10/26/20 by: MBERGKAMP

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? <u>Box sealing.</u> Sealing Lid?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2006070-001.01	1.0 L Source Silonite Canister					
P2006070-002.01	1.0 L Source Silonite Canister					
P2006070-003.01	1.0 L Source Silonite Canister					
P2006070-004.01	1.0 L Source Silonite Canister					
P2006070-005.01	1.0 L Source Can					
P2006070-006.01	1.0 L Source Can					
P2006070-007.01	1.0 L Source Silonite Canister					
P2006070-008.01	1.0 L Source Can					
P2006070-009.01	1.0 L Source Can					
P2006070-010.01	1.0 L Source Silonite Canister					
P2006070-011.01	1.0 L Source Silonite Canister					
P2006070-012.01	1.0 L Source Can					
P2006070-013.01	1.0 L Source Can					
P2006070-014.01	1.0 L Source Can					
P2006070-015.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2006070

Date Received: 10/26/2020  
 Time Received: 09:45

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SV118-450-604	P2006070-001	Air	10/19/2020	10:13	1SS00219	-6.37	6.37	X
SV119-025-204	P2006070-002	Air	10/20/2020	13:25	1SS00008	-4.39	6.98	X
SV119-050-204	P2006070-003	Air	10/20/2020	13:27	1SS00026	-2.99	7.31	X
SV119-150-204	P2006070-004	Air	10/20/2020	13:30	1SS00146	-4.93	6.67	X
SV119-250-204	P2006070-005	Air	10/20/2020	13:33	1SC00749	-2.90	5.53	X
SV119-350-204	P2006070-006	Air	10/20/2020	13:37	1SC00648	-2.88	6.77	X
SV119-450-204	P2006070-007	Air	10/20/2020	13:45	1SS00169	-3.48	5.37	X
SV126-025-204	P2006070-008	Air	10/20/2020	12:39	1SC00007	-3.28	6.43	X
SV126-050-204	P2006070-009	Air	10/20/2020	12:41	1SC00030	-4.25	7.88	X
SV126-150-204	P2006070-010	Air	10/20/2020	12:43	1SS00248	-4.21	5.16	X
SV126-250-204	P2006070-011	Air	10/20/2020	12:46	1SS00986	-3.91	8.29	X
SV126-350-204	P2006070-012	Air	10/20/2020	12:48	1SC01139	-3.17	7.23	X
SV126-450-204	P2006070-013	Air	10/20/2020	12:56	1SC00697	-2.91	6.40	X
SV129-025-204	P2006070-014	Air	10/19/2020	12:11	1SC00733	-2.84	7.26	X
SV129-050-204	P2006070-015	Air	10/19/2020	12:14	1SC00332	-3.32	7.11	X
SV129-150-204	P2006070-016	Air	10/19/2020	12:16	1SC01270	-4.12	6.97	X
SV129-250-204	P2006070-017	Air	10/19/2020	12:19	1SC00612	-5.18	6.43	X
SV129-350-204	P2006070-018	Air	10/19/2020	12:22	1SS00790	-4.46	6.71	X
SV129-450-204	P2006070-019	Air	10/19/2020	12:31	1SC01089	-3.76	9.26	X
SV130-025-204	P2006070-020	Air	10/20/2020	11:49	1SS01025	-4.88	6.76	X

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00219

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -6.37 Final Pressure (psig): 6.37

Container Dilution Factor: 2.53

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	19	51	31	13	J
75-71-8	Dichlorodifluoromethane (CFC 12)	11	18	11	3.0	U
74-87-3	Chloromethane	35	42	26	7.0	J
75-01-4	Vinyl Chloride	4.9	35	11	3.8	J
106-99-0	1,3-Butadiene	24	40	24	6.7	U
75-00-3	Chloroethane	20	33	20	4.2	U
64-17-5	Ethanol	74	470	74	33	U
67-64-1	Acetone	190	370	190	85	U
75-69-4	Trichlorofluoromethane	9.6	15	9.6	2.4	U
67-63-0	2-Propanol (Isopropyl Alcohol)	43	69	43	15	U
75-09-2	Methylene Chloride	16	25	16	7.3	U
76-13-1	Trichlorotrifluoroethane	2.8	12	3.7	1.7	J
75-15-0	Carbon Disulfide	120	54	29	8.7	
75-34-3	1,1-Dichloroethane	14	23	14	3.3	U
78-93-3	2-Butanone (MEK)	18	57	18	6.3	U
141-78-6	Ethyl Acetate	30	47	30	13	U
110-54-3	n-Hexane	270	25	15	5.3	
67-66-3	Chloroform	5.9	18	5.9	2.5	U
109-99-9	Tetrahydrofuran (THF)	29	57	9.7	3.8	J
107-06-2	1,2-Dichloroethane	7.1	22	7.1	2.5	U
71-43-2	Benzene	26	27	9.0	4.1	J
56-23-5	Carbon Tetrachloride	19	14	4.6	2.0	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00219

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -6.37 Final Pressure (psig): 6.37

Container Dilution Factor: 2.53

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	4,400	49	17	7.4	
75-27-4	Bromodichloromethane	4.3	13	4.3	1.9	U
79-01-6	Trichloroethene	5.3	16	5.3	2.3	U
123-91-1	1,4-Dioxane	8.0	24	8.0	2.9	U
142-82-5	n-Heptane	4.5	21	13	3.5	J
108-10-1	4-Methyl-2-pentanone	7.0	41	7.0	3.0	U
108-88-3	Toluene	140	23	7.6	2.9	
591-78-6	2-Hexanone	7.0	41	7.0	2.7	U
124-48-1	Dibromochloromethane	3.4	10	3.4	1.4	U
106-93-4	1,2-Dibromoethane	3.7	11	3.7	1.4	U
127-18-4	Tetrachloroethene	4.2	13	4.2	1.7	U
100-41-4	Ethylbenzene	4.4	20	6.6	2.9	J
179601-23-1	m,p-Xylenes	7.8	39	13	5.4	J
75-25-2	Bromoform	5.2	8.6	5.2	1.8	U
100-42-5	Styrene	13	21	13	3.4	U
95-47-6	o-Xylene	6.5	21	6.6	3.0	J
108-67-8	1,3,5-Trimethylbenzene	2.8	18	5.8	2.6	J
95-63-6	1,2,4-Trimethylbenzene	5.8	18	5.8	2.5	U
120-82-1	1,2,4-Trichlorobenzene	7.3	23	7.3	3.0	U
91-20-3	Naphthalene	10	17	10	4.2	U
1330-20-7	Xylenes, Total	14	39	13	5.4	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-002

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00008

Initial Pressure (psig): -4.39 Final Pressure (psig): 6.98

Container Dilution Factor: 2.10

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.72</b>	1.6	0.98	0.40	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>1.7</b>	0.55	0.34	0.092	
74-87-3	Chloromethane	0.81	1.3	0.81	0.22	<b>U</b>
75-01-4	Vinyl Chloride	0.35	1.1	0.35	0.12	<b>U</b>
106-99-0	1,3-Butadiene	0.76	1.2	0.76	0.21	<b>U</b>
75-00-3	Chloroethane	0.64	1.0	0.64	0.13	<b>U</b>
64-17-5	Ethanol	<b>2.4</b>	15	2.3	1.0	<b>J</b>
67-64-1	Acetone	<b>8.1</b>	11	6.0	2.7	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.52</b>	0.48	0.30	0.076	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.47	<b>U</b>
75-09-2	Methylene Chloride	0.48	0.79	0.48	0.23	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>16</b>	0.36	0.12	0.052	
75-15-0	Carbon Disulfide	<b>8.2</b>	1.7	0.91	0.27	
75-34-3	1,1-Dichloroethane	0.43	0.70	0.43	0.10	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.2</b>	1.8	0.57	0.20	<b>J</b>
141-78-6	Ethyl Acetate	0.95	1.5	0.95	0.41	<b>U</b>
110-54-3	n-Hexane	0.48	0.77	0.48	0.16	<b>U</b>
67-66-3	Chloroform	<b>0.12</b>	0.57	0.18	0.076	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	0.30	1.8	0.30	0.12	<b>U</b>
107-06-2	1,2-Dichloroethane	0.22	0.67	0.22	0.077	<b>U</b>
71-43-2	Benzene	<b>0.31</b>	0.85	0.28	0.13	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.43</b>	0.43	0.14	0.062	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-002

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00008

Initial Pressure (psig): -4.39 Final Pressure (psig): 6.98

Container Dilution Factor: 2.10

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1.5</b>	1.5	0.52	0.23	
75-27-4	Bromodichloromethane	0.13	0.41	0.13	0.060	U
79-01-6	Trichloroethene	0.17	0.50	0.17	0.070	U
123-91-1	1,4-Dioxane	<b>0.14</b>	0.76	0.25	0.092	J
142-82-5	n-Heptane	0.41	0.67	0.41	0.11	U
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.094	U
108-88-3	Toluene	<b>2.8</b>	0.72	0.24	0.091	
591-78-6	2-Hexanone	0.22	1.3	0.22	0.085	U
124-48-1	Dibromochloromethane	0.10	0.32	0.10	0.043	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.042	U
127-18-4	Tetrachloroethene	<b>0.52</b>	0.40	0.13	0.053	
100-41-4	Ethylbenzene	<b>0.19</b>	0.63	0.21	0.091	J
179601-23-1	m,p-Xylenes	<b>1.4</b>	1.2	0.41	0.17	
75-25-2	Bromoform	0.16	0.27	0.16	0.056	U
100-42-5	Styrene	0.39	0.64	0.39	0.11	U
95-47-6	o-Xylene	<b>0.34</b>	0.64	0.21	0.093	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.11</b>	0.57	0.18	0.082	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.095</b>	0.56	0.18	0.079	J
120-82-1	1,2,4-Trichlorobenzene	0.23	0.71	0.23	0.092	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	<b>1.7</b>	1.2	0.41	0.17	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00026

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.31

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.3	1.4	0.87	0.36	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.1	0.49	0.30	0.083	
74-87-3	Chloromethane	0.73	1.2	0.73	0.20	U
75-01-4	Vinyl Chloride	0.31	0.97	0.31	0.10	U
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	U
75-00-3	Chloroethane	0.57	0.93	0.57	0.12	U
64-17-5	Ethanol	2.6	13	2.1	0.92	J
67-64-1	Acetone	9.4	10	5.3	2.4	J
75-69-4	Trichlorofluoromethane	0.46	0.43	0.27	0.068	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.42	U
75-09-2	Methylene Chloride	0.43	0.70	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	18	0.33	0.10	0.047	
75-15-0	Carbon Disulfide	8.7	1.5	0.82	0.24	
75-34-3	1,1-Dichloroethane	0.38	0.63	0.38	0.091	U
78-93-3	2-Butanone (MEK)	1.8	1.6	0.51	0.18	
141-78-6	Ethyl Acetate	0.85	1.3	0.85	0.37	U
110-54-3	n-Hexane	0.43	0.69	0.43	0.15	U
67-66-3	Chloroform	0.16	0.51	0.16	0.068	U
109-99-9	Tetrahydrofuran (THF)	0.27	1.6	0.27	0.11	U
107-06-2	1,2-Dichloroethane	0.20	0.60	0.20	0.069	U
71-43-2	Benzene	0.31	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	0.48	0.38	0.13	0.055	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00026

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.31

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.35</b>	1.4	0.46	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.054	<b>U</b>
79-01-6	Trichloroethene	0.15	0.45	0.15	0.063	<b>U</b>
123-91-1	1,4-Dioxane	<b>0.25</b>	0.68	0.22	0.082	<b>J</b>
142-82-5	n-Heptane	0.37	0.60	0.37	0.098	<b>U</b>
108-10-1	4-Methyl-2-pentanone	0.20	1.1	0.20	0.084	<b>U</b>
108-88-3	Toluene	<b>0.30</b>	0.65	0.21	0.081	<b>J</b>
591-78-6	2-Hexanone	0.20	1.1	0.20	0.076	<b>U</b>
124-48-1	Dibromochloromethane	0.094	0.29	0.094	0.039	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.52</b>	0.36	0.12	0.048	
100-41-4	Ethylbenzene	0.18	0.56	0.18	0.081	<b>U</b>
179601-23-1	m,p-Xylenes	0.37	1.1	0.37	0.15	<b>U</b>
75-25-2	Bromoform	0.15	0.24	0.15	0.050	<b>U</b>
100-42-5	Styrene	0.35	0.57	0.35	0.095	<b>U</b>
95-47-6	o-Xylene	0.18	0.57	0.18	0.083	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.16	0.50	0.16	0.071	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.082	<b>U</b>
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	<b>U</b>
1330-20-7	Xylenes, Total	0.37	1.1	0.37	0.15	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00146

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -4.93 Final Pressure (psig): 6.67

Container Dilution Factor: 2.19

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	390	330	200	83	
75-71-8	Dichlorodifluoromethane (CFC 12)	71	120	71	19	U
74-87-3	Chloromethane	170	280	170	46	U
75-01-4	Vinyl Chloride	73	230	73	24	U
106-99-0	1,3-Butadiene	160	260	160	44	U
75-00-3	Chloroethane	130	220	130	27	U
64-17-5	Ethanol	480	3,100	480	220	U
67-64-1	Acetone	1,200	2,400	1,200	550	U
75-69-4	Trichlorofluoromethane	62	99	62	16	U
67-63-0	2-Propanol (Isopropyl Alcohol)	280	450	280	98	U
75-09-2	Methylene Chloride	100	160	100	47	U
76-13-1	Trichlorotrifluoroethane	19	76	24	11	J
75-15-0	Carbon Disulfide	190	350	190	56	U
75-34-3	1,1-Dichloroethane	89	150	89	21	U
78-93-3	2-Butanone (MEK)	120	370	120	41	U
141-78-6	Ethyl Acetate	200	300	200	85	U
110-54-3	n-Hexane	1,000	160	99	34	
67-66-3	Chloroform	38	120	38	16	U
109-99-9	Tetrahydrofuran (THF)	63	370	63	25	U
107-06-2	1,2-Dichloroethane	46	140	46	16	U
71-43-2	Benzene	320	180	58	26	
56-23-5	Carbon Tetrachloride	30	89	30	13	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-004

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0020 Liter(s)

Test Notes:

Container ID: 1SS00146

Initial Pressure (psig): -4.93 Final Pressure (psig): 6.67

Container Dilution Factor: 2.19

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	27,000	320	110	48	
75-27-4	Bromodichloromethane	28	85	28	13	U
79-01-6	Trichloroethene	25	100	35	15	J
123-91-1	1,4-Dioxane	52	160	52	19	U
142-82-5	n-Heptane	150	140	86	23	
108-10-1	4-Methyl-2-pentanone	45	270	45	20	U
108-88-3	Toluene	310	150	49	19	
591-78-6	2-Hexanone	45	270	45	18	U
124-48-1	Dibromochloromethane	22	67	22	9.0	U
106-93-4	1,2-Dibromoethane	24	74	24	8.8	U
127-18-4	Tetrachloroethene	34	84	27	11	J
100-41-4	Ethylbenzene	43	130	43	19	U
179601-23-1	m,p-Xylenes	55	250	86	35	J
75-25-2	Bromoform	34	56	34	12	U
100-42-5	Styrene	82	130	82	22	U
95-47-6	o-Xylene	39	130	43	19	J
108-67-8	1,3,5-Trimethylbenzene	38	120	38	17	U
95-63-6	1,2,4-Trimethylbenzene	38	120	38	16	U
120-82-1	1,2,4-Trichlorobenzene	47	150	47	19	U
91-20-3	Naphthalene	65	110	65	27	U
1330-20-7	Xylenes, Total	93	250	86	35	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-005

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SC00749

Initial Pressure (psig): -2.90 Final Pressure (psig): 5.53

Container Dilution Factor: 1.71

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2,100	3,400	2,100	860	U
75-71-8	Dichlorodifluoromethane (CFC 12)	740	1,200	740	200	U
74-87-3	Chloromethane	1,800	2,900	1,800	470	U
75-01-4	Vinyl Chloride	760	2,400	760	250	U
106-99-0	1,3-Butadiene	1,600	2,700	1,600	450	U
75-00-3	Chloroethane	1,400	2,200	1,400	290	U
64-17-5	Ethanol	5,000	32,000	5,000	2,200	U
67-64-1	Acetone	13,000	25,000	13,000	5,800	U
75-69-4	Trichlorofluoromethane	650	1,000	650	160	U
67-63-0	2-Propanol (Isopropyl Alcohol)	2,900	4,600	2,900	1,000	U
75-09-2	Methylene Chloride	1,100	1,700	1,100	490	U
76-13-1	Trichlorotrifluoroethane	<b>170</b>	790	250	110	J
75-15-0	Carbon Disulfide	2,000	3,700	2,000	590	U
75-34-3	1,1-Dichloroethane	930	1,500	930	220	U
78-93-3	2-Butanone (MEK)	1,200	3,900	1,200	430	U
141-78-6	Ethyl Acetate	2,100	3,200	2,100	890	U
110-54-3	n-Hexane	<b>57,000</b>	1,700	1,000	360	
67-66-3	Chloroform	400	1,200	400	170	U
109-99-9	Tetrahydrofuran (THF)	660	3,900	660	260	U
107-06-2	1,2-Dichloroethane	480	1,500	480	170	U
71-43-2	Benzene	<b>52,000</b>	1,900	610	270	
56-23-5	Carbon Tetrachloride	310	920	310	130	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-005

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SC00749

Initial Pressure (psig): -2.90 Final Pressure (psig): 5.53

Container Dilution Factor: 1.71

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	170,000	3,300	1,100	500	
75-27-4	Bromodichloromethane	290	890	290	130	U
79-01-6	Trichloroethene	240	1,100	360	150	J
123-91-1	1,4-Dioxane	540	1,600	540	200	U
142-82-5	n-Heptane	37,000	1,400	890	240	
108-10-1	4-Methyl-2-pentanone	470	2,800	470	200	U
108-88-3	Toluene	11,000	1,600	510	200	
591-78-6	2-Hexanone	470	2,800	470	180	U
124-48-1	Dibromochloromethane	230	700	230	94	U
106-93-4	1,2-Dibromoethane	250	770	250	92	U
127-18-4	Tetrachloroethene	340	870	290	120	J
100-41-4	Ethylbenzene	420	1,400	450	200	J
179601-23-1	m,p-Xylenes	2,600	2,600	890	370	J
75-25-2	Bromoform	350	580	350	120	U
100-42-5	Styrene	860	1,400	860	230	U
95-47-6	o-Xylene	3,700	1,400	450	200	
108-67-8	1,3,5-Trimethylbenzene	500	1,200	390	180	J
95-63-6	1,2,4-Trimethylbenzene	390	1,200	390	170	U
120-82-1	1,2,4-Trichlorobenzene	490	1,500	490	200	U
91-20-3	Naphthalene	670	1,100	670	280	U
1330-20-7	Xylenes, Total	6,300	2,600	890	370	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00648

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.00040 Liter(s)

Initial Pressure (psig): -2.88 Final Pressure (psig): 6.77

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	740	1,400	850	340	J
75-71-8	Dichlorodifluoromethane (CFC 12)	290	480	290	80	U
74-87-3	Chloromethane	710	1,100	710	190	U
75-01-4	Vinyl Chloride	300	940	300	100	U
106-99-0	1,3-Butadiene	660	1,100	660	180	U
75-00-3	Chloroethane	550	900	550	110	U
64-17-5	Ethanol	2,000	13,000	2,000	890	U
67-64-1	Acetone	5,200	10,000	5,200	2,300	U
75-69-4	Trichlorofluoromethane	260	410	260	66	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,200	1,900	1,200	410	U
75-09-2	Methylene Chloride	420	680	420	200	U
76-13-1	Trichlorotrifluoroethane	85	310	100	45	J
75-15-0	Carbon Disulfide	790	1,500	790	230	U
75-34-3	1,1-Dichloroethane	370	610	370	88	U
78-93-3	2-Butanone (MEK)	490	1,500	490	170	U
141-78-6	Ethyl Acetate	820	1,300	820	350	U
110-54-3	n-Hexane	47,000	670	410	140	
67-66-3	Chloroform	160	490	160	66	U
109-99-9	Tetrahydrofuran (THF)	260	1,500	260	100	U
107-06-2	1,2-Dichloroethane	190	580	190	66	U
71-43-2	Benzene	14,000	740	240	110	
56-23-5	Carbon Tetrachloride	120	370	120	54	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV119-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-006

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00040 Liter(s)

Test Notes:

Container ID: 1SC00648

Initial Pressure (psig): -2.88 Final Pressure (psig): 6.77

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	150,000	1,300	450	200	
75-27-4	Bromodichloromethane	120	350	120	52	U
79-01-6	Trichloroethene	100	430	140	61	J
123-91-1	1,4-Dioxane	210	660	210	80	U
142-82-5	n-Heptane	27,000	580	360	94	
108-10-1	4-Methyl-2-pentanone	190	1,100	190	81	U
108-88-3	Toluene	650	630	210	79	
591-78-6	2-Hexanone	190	1,100	190	73	U
124-48-1	Dibromochloromethane	91	280	91	37	U
106-93-4	1,2-Dibromoethane	100	310	100	37	U
127-18-4	Tetrachloroethene	130	350	110	46	J
100-41-4	Ethylbenzene	180	540	180	79	U
179601-23-1	m,p-Xylenes	880	1,000	360	150	J
75-25-2	Bromoform	140	230	140	48	U
100-42-5	Styrene	340	560	340	92	U
95-47-6	o-Xylene	2,000	560	180	81	
108-67-8	1,3,5-Trimethylbenzene	450	490	160	71	J
95-63-6	1,2,4-Trimethylbenzene	390	480	160	69	J
120-82-1	1,2,4-Trichlorobenzene	200	610	200	80	U
91-20-3	Naphthalene	270	450	270	110	U
1330-20-7	Xylenes, Total	2,900	1,000	360	150	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-007

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00070 Liter(s)

Test Notes:

Container ID: 1SS00169

Initial Pressure (psig): -3.48 Final Pressure (psig): 5.37

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	480	770	480	190	J
75-71-8	Dichlorodifluoromethane (CFC 12)	170	270	170	45	U
74-87-3	Chloromethane	400	640	400	110	U
75-01-4	Vinyl Chloride	170	530	170	57	U
106-99-0	1,3-Butadiene	370	600	370	100	U
75-00-3	Chloroethane	310	500	310	64	U
64-17-5	Ethanol	1,100	7,200	1,100	500	U
67-64-1	Acetone	2,900	5,600	2,900	1,300	U
75-69-4	Trichlorofluoromethane	150	230	150	37	U
67-63-0	2-Propanol (Isopropyl Alcohol)	660	1,000	660	230	U
75-09-2	Methylene Chloride	240	380	240	110	U
76-13-1	Trichlorotrifluoroethane	87	180	57	25	J
75-15-0	Carbon Disulfide	440	820	440	130	U
75-34-3	1,1-Dichloroethane	210	340	210	49	U
78-93-3	2-Butanone (MEK)	280	870	280	95	U
141-78-6	Ethyl Acetate	460	710	460	200	U
110-54-3	n-Hexane	13,000	380	230	80	
67-66-3	Chloroform	89	280	89	37	U
109-99-9	Tetrahydrofuran (THF)	150	870	150	58	U
107-06-2	1,2-Dichloroethane	110	330	110	37	U
71-43-2	Benzene	140	420	140	62	U
56-23-5	Carbon Tetrachloride	69	210	69	30	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-007

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00070 Liter(s)

Test Notes:

Container ID: 1SS00169

Initial Pressure (psig): -3.48 Final Pressure (psig): 5.37

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	80,000	740	250	110	
75-27-4	Bromodichloromethane	65	200	65	29	U
79-01-6	Trichloroethene	53	240	81	34	J
123-91-1	1,4-Dioxane	120	370	120	45	U
142-82-5	n-Heptane	14,000	320	200	53	
108-10-1	4-Methyl-2-pentanone	110	620	110	46	U
108-88-3	Toluene	79	350	120	44	J
591-78-6	2-Hexanone	110	620	110	41	U
124-48-1	Dibromochloromethane	51	160	51	21	U
106-93-4	1,2-Dibromoethane	57	170	57	21	U
127-18-4	Tetrachloroethene	75	200	64	26	J
100-41-4	Ethylbenzene	61	310	100	44	J
179601-23-1	m,p-Xylenes	1,200	590	200	82	
75-25-2	Bromoform	79	130	79	27	U
100-42-5	Styrene	190	310	190	52	U
95-47-6	o-Xylene	120	310	100	45	J
108-67-8	1,3,5-Trimethylbenzene	210	280	88	40	J
95-63-6	1,2,4-Trimethylbenzene	43	270	88	39	J
120-82-1	1,2,4-Trichlorobenzene	110	340	110	45	U
91-20-3	Naphthalene	150	250	150	63	U
1330-20-7	Xylenes, Total	1,400	590	200	82	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-008

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00007

Initial Pressure (psig): -3.28 Final Pressure (psig): 6.43

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>1.3</b>	1.4	0.86	0.35	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.56</b>	0.49	0.30	0.081	
74-87-3	Chloromethane	0.72	1.2	0.72	0.19	<b>U</b>
75-01-4	Vinyl Chloride	0.31	0.96	0.31	0.10	<b>U</b>
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.18	<b>U</b>
75-00-3	Chloroethane	0.56	0.91	0.56	0.12	<b>U</b>
64-17-5	Ethanol	<b>12</b>	13	2.0	0.91	<b>J</b>
67-64-1	Acetone	<b>17</b>	10	5.3	2.3	
75-69-4	Trichlorofluoromethane	<b>0.24</b>	0.42	0.26	0.067	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>1.2</b>	1.9	1.2	0.41	<b>J</b>
75-09-2	Methylene Chloride	<b>0.83</b>	0.69	0.43	0.20	
76-13-1	Trichlorotrifluoroethane	<b>0.070</b>	0.32	0.10	0.046	<b>J</b>
75-15-0	Carbon Disulfide	0.80	1.5	0.80	0.24	<b>U</b>
75-34-3	1,1-Dichloroethane	0.38	0.62	0.38	0.089	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>3.0</b>	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	<b>1.1</b>	1.3	0.83	0.36	<b>J</b>
110-54-3	n-Hexane	<b>0.16</b>	0.68	0.42	0.14	<b>J</b>
67-66-3	Chloroform	<b>52</b>	0.50	0.16	0.067	
109-99-9	Tetrahydrofuran (THF)	0.27	1.6	0.27	0.11	<b>U</b>
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	<b>U</b>
71-43-2	Benzene	<b>0.24</b>	0.75	0.25	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>1.1</b>	0.38	0.13	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-008

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00007

Initial Pressure (psig): -3.28 Final Pressure (psig): 6.43

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.46	1.3	0.46	0.20	U
75-27-4	Bromodichloromethane	<b>2.9</b>	0.36	0.12	0.053	
79-01-6	Trichloroethene	<b>0.16</b>	0.44	0.15	0.062	J
123-91-1	1,4-Dioxane	0.22	0.67	0.22	0.081	U
142-82-5	n-Heptane	<b>0.12</b>	0.59	0.36	0.096	J
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.082	U
108-88-3	Toluene	<b>0.57</b>	0.64	0.21	0.080	J
591-78-6	2-Hexanone	<b>0.28</b>	1.1	0.19	0.075	J
124-48-1	Dibromochloromethane	0.092	0.28	0.092	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.39</b>	0.35	0.12	0.047	
100-41-4	Ethylbenzene	0.18	0.55	0.18	0.080	U
179601-23-1	m,p-Xylenes	<b>0.24</b>	1.1	0.36	0.15	J
75-25-2	Bromoform	0.14	0.24	0.14	0.049	U
100-42-5	Styrene	0.35	0.57	0.35	0.093	U
95-47-6	o-Xylene	0.18	0.56	0.18	0.082	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.50	0.16	0.072	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.49	0.16	0.070	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.081	U
91-20-3	Naphthalene	0.27	0.46	0.27	0.11	U
1330-20-7	Xylenes, Total	<b>0.24</b>	1.1	0.36	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00030

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -4.25 Final Pressure (psig): 7.88

Container Dilution Factor: 2.16

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.1	1.6	1.0	0.41	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.45	0.57	0.35	0.095	J
74-87-3	Chloromethane	0.84	1.4	0.84	0.22	U
75-01-4	Vinyl Chloride	0.36	1.1	0.36	0.12	U
106-99-0	1,3-Butadiene	0.78	1.3	0.78	0.21	U
75-00-3	Chloroethane	0.66	1.1	0.66	0.14	U
64-17-5	Ethanol	4.2	15	2.4	1.1	J
67-64-1	Acetone	15	12	6.1	2.7	
75-69-4	Trichlorofluoromethane	0.21	0.49	0.31	0.078	J
67-63-0	2-Propanol (Isopropyl Alcohol)	0.60	2.2	1.4	0.48	J
75-09-2	Methylene Chloride	0.33	0.81	0.50	0.23	J
76-13-1	Trichlorotrifluoroethane	0.056	0.37	0.12	0.054	J
75-15-0	Carbon Disulfide	3.6	1.7	0.94	0.28	
75-34-3	1,1-Dichloroethane	0.44	0.72	0.44	0.10	U
78-93-3	2-Butanone (MEK)	2.8	1.8	0.59	0.20	
141-78-6	Ethyl Acetate	1.5	1.5	0.97	0.42	
110-54-3	n-Hexane	0.49	0.80	0.49	0.17	U
67-66-3	Chloroform	91	5.9	1.9	0.79	D
109-99-9	Tetrahydrofuran (THF)	11	1.8	0.31	0.12	
107-06-2	1,2-Dichloroethane	0.23	0.69	0.23	0.079	U
71-43-2	Benzene	0.19	0.88	0.29	0.13	J
56-23-5	Carbon Tetrachloride	3.2	0.44	0.15	0.064	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-009

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan/Topacio De Leon

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SC00030

Initial Pressure (psig): -4.25 Final Pressure (psig): 7.88

Container Dilution Factor: 2.16

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.53	1.6	0.53	0.24	U
75-27-4	Bromodichloromethane	<b>9.1</b>	0.42	0.14	0.062	
79-01-6	Trichloroethene	<b>1.3</b>	0.51	0.17	0.072	
123-91-1	1,4-Dioxane	0.25	0.78	0.25	0.094	U
142-82-5	n-Heptane	0.42	0.69	0.42	0.11	U
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.096	U
108-88-3	Toluene	<b>0.29</b>	0.75	0.24	0.093	J
591-78-6	2-Hexanone	<b>0.33</b>	1.3	0.22	0.087	J
124-48-1	Dibromochloromethane	<b>0.15</b>	0.33	0.11	0.044	J
106-93-4	1,2-Dibromoethane	0.12	0.37	0.12	0.044	U
127-18-4	Tetrachloroethene	<b>1.9</b>	0.41	0.14	0.055	
100-41-4	Ethylbenzene	0.21	0.65	0.21	0.093	U
179601-23-1	m,p-Xylenes	0.42	1.2	0.42	0.17	U
75-25-2	Bromoform	0.17	0.28	0.17	0.057	U
100-42-5	Styrene	0.41	0.66	0.41	0.11	U
95-47-6	o-Xylene	0.21	0.66	0.21	0.096	U
108-67-8	1,3,5-Trimethylbenzene	0.19	0.58	0.19	0.085	U
95-63-6	1,2,4-Trimethylbenzene	0.19	0.57	0.19	0.081	U
120-82-1	1,2,4-Trichlorobenzene	0.23	0.73	0.23	0.095	U
91-20-3	Naphthalene	0.32	0.54	0.32	0.13	U
1330-20-7	Xylenes, Total	0.42	1.2	0.42	0.17	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00248

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.21 Final Pressure (psig): 5.16

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.51</b>	1.4	0.88	0.36	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.18</b>	0.50	0.31	0.083	<b>J</b>
74-87-3	Chloromethane	0.73	1.2	0.73	0.20	<b>U</b>
75-01-4	Vinyl Chloride	0.31	0.98	0.31	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	<b>U</b>
75-00-3	Chloroethane	0.57	0.93	0.57	0.12	<b>U</b>
64-17-5	Ethanol	<b>2.1</b>	13	2.1	0.93	<b>J</b>
67-64-1	Acetone	<b>7.9</b>	10	5.4	2.4	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.26</b>	0.43	0.27	0.068	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.43</b>	1.9	1.2	0.42	<b>J</b>
75-09-2	Methylene Chloride	0.44	0.71	0.44	0.20	<b>U</b>
76-13-1	Trichlorotrifluoroethane	0.10	0.33	0.10	0.047	<b>U</b>
75-15-0	Carbon Disulfide	<b>1.5</b>	1.5	0.82	0.24	<b>J</b>
75-34-3	1,1-Dichloroethane	0.39	0.63	0.39	0.091	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.4</b>	1.6	0.51	0.18	
141-78-6	Ethyl Acetate	<b>7.2</b>	1.3	0.85	0.37	
110-54-3	n-Hexane	0.43	0.70	0.43	0.15	<b>U</b>
67-66-3	Chloroform	<b>6.1</b>	0.51	0.16	0.069	
109-99-9	Tetrahydrofuran (THF)	<b>51</b>	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.069	<b>U</b>
71-43-2	Benzene	<b>0.19</b>	0.77	0.25	0.11	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>2.1</b>	0.38	0.13	0.056	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-010

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00248

Initial Pressure (psig): -4.21 Final Pressure (psig): 5.16

Container Dilution Factor: 1.89

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.47	1.4	0.47	0.21	U
75-27-4	Bromodichloromethane	<b>0.24</b>	0.37	0.12	0.054	J
79-01-6	Trichloroethene	0.15	0.45	0.15	0.063	U
123-91-1	1,4-Dioxane	<b>0.20</b>	0.68	0.22	0.083	J
142-82-5	n-Heptane	0.37	0.60	0.37	0.098	U
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.084	U
108-88-3	Toluene	<b>0.77</b>	0.65	0.21	0.082	J
591-78-6	2-Hexanone	0.20	1.2	0.20	0.076	U
124-48-1	Dibromochloromethane	0.094	0.29	0.094	0.039	U
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	U
127-18-4	Tetrachloroethene	<b>0.38</b>	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	0.19	0.57	0.19	0.082	U
179601-23-1	m,p-Xylenes	<b>0.34</b>	1.1	0.37	0.15	J
75-25-2	Bromoform	0.15	0.24	0.15	0.050	U
100-42-5	Styrene	<b>0.12</b>	0.58	0.36	0.095	J
95-47-6	o-Xylene	<b>0.17</b>	0.58	0.19	0.084	J
108-67-8	1,3,5-Trimethylbenzene	0.16	0.51	0.16	0.074	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.19</b>	0.50	0.16	0.071	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	<b>0.51</b>	1.1	0.37	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00986

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.91 Final Pressure (psig): 8.29

Container Dilution Factor: 2.13

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.99	1.6	0.99	0.40	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.11</b>	0.56	0.34	0.094	J
74-87-3	Chloromethane	<b>0.25</b>	1.3	0.83	0.22	J
75-01-4	Vinyl Chloride	0.35	1.1	0.35	0.12	U
106-99-0	1,3-Butadiene	0.77	1.3	0.77	0.21	U
75-00-3	Chloroethane	0.65	1.0	0.65	0.13	U
64-17-5	Ethanol	2.3	15	2.3	1.0	U
67-64-1	Acetone	<b>3.2</b>	12	6.1	2.7	J
75-69-4	Trichlorofluoromethane	<b>0.22</b>	0.48	0.30	0.077	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.48	U
75-09-2	Methylene Chloride	0.49	0.80	0.49	0.23	U
76-13-1	Trichlorotrifluoroethane	0.12	0.37	0.12	0.053	U
75-15-0	Carbon Disulfide	<b>1.2</b>	1.7	0.92	0.27	J
75-34-3	1,1-Dichloroethane	0.43	0.71	0.43	0.10	U
78-93-3	2-Butanone (MEK)	<b>1.5</b>	1.8	0.58	0.20	J
141-78-6	Ethyl Acetate	<b>0.89</b>	1.5	0.96	0.41	J
110-54-3	n-Hexane	0.48	0.79	0.48	0.17	U
67-66-3	Chloroform	<b>0.29</b>	0.58	0.19	0.077	J
109-99-9	Tetrahydrofuran (THF)	<b>34</b>	1.8	0.31	0.12	J
107-06-2	1,2-Dichloroethane	0.22	0.68	0.22	0.078	U
71-43-2	Benzene	<b>0.14</b>	0.87	0.28	0.13	J
56-23-5	Carbon Tetrachloride	<b>0.39</b>	0.43	0.14	0.063	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-011

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00986

Initial Pressure (psig): -3.91 Final Pressure (psig): 8.29

Container Dilution Factor: 2.13

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.53	1.5	0.53	0.23	U
75-27-4	Bromodichloromethane	0.14	0.41	0.14	0.061	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.071	U
123-91-1	1,4-Dioxane	<b>0.24</b>	0.77	0.25	0.093	J
142-82-5	n-Heptane	0.42	0.68	0.42	0.11	U
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.095	U
108-88-3	Toluene	<b>0.20</b>	0.74	0.24	0.092	J
591-78-6	2-Hexanone	0.22	1.3	0.22	0.086	U
124-48-1	Dibromochloromethane	0.11	0.33	0.11	0.044	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	U
127-18-4	Tetrachloroethene	0.13	0.41	0.13	0.054	U
100-41-4	Ethylbenzene	0.21	0.64	0.21	0.092	U
179601-23-1	m,p-Xylenes	0.42	1.2	0.42	0.17	U
75-25-2	Bromoform	0.16	0.27	0.16	0.057	U
100-42-5	Styrene	0.40	0.65	0.40	0.11	U
95-47-6	o-Xylene	0.21	0.65	0.21	0.094	U
108-67-8	1,3,5-Trimethylbenzene	0.18	0.57	0.18	0.083	U
95-63-6	1,2,4-Trimethylbenzene	0.18	0.56	0.18	0.080	U
120-82-1	1,2,4-Trichlorobenzene	0.23	0.72	0.23	0.093	U
91-20-3	Naphthalene	0.32	0.53	0.32	0.13	U
1330-20-7	Xylenes, Total	0.42	1.2	0.42	0.17	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01139

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.060 Liter(s)

Initial Pressure (psig): -3.17 Final Pressure (psig): 7.23

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	7.1	9.6	5.9	2.4	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	3.3	2.1	0.56	U
74-87-3	Chloromethane	2.4	8.0	4.9	1.3	J
75-01-4	Vinyl Chloride	2.1	6.6	2.1	0.71	U
106-99-0	1,3-Butadiene	4.6	7.4	4.6	1.3	U
75-00-3	Chloroethane	3.8	6.2	3.8	0.79	U
64-17-5	Ethanol	6.7	89	14	6.2	J
67-64-1	Acetone	43	69	36	16	J
75-69-4	Trichlorofluoromethane	1.8	2.9	1.8	0.46	U
67-63-0	2-Propanol (Isopropyl Alcohol)	8.1	13	8.1	2.8	U
75-09-2	Methylene Chloride	2.9	4.7	2.9	1.4	U
76-13-1	Trichlorotrifluoroethane	0.70	2.2	0.70	0.31	U
75-15-0	Carbon Disulfide	5.5	10	5.5	1.6	U
75-34-3	1,1-Dichloroethane	2.6	4.2	2.6	0.61	U
78-93-3	2-Butanone (MEK)	16	11	3.4	1.2	
141-78-6	Ethyl Acetate	14	8.8	5.7	2.5	
110-54-3	n-Hexane	1.5	4.7	2.9	0.99	J
67-66-3	Chloroform	1.1	3.4	1.1	0.46	U
109-99-9	Tetrahydrofuran (THF)	0.76	11	1.8	0.72	J
107-06-2	1,2-Dichloroethane	1.3	4.1	1.3	0.46	U
71-43-2	Benzene	2.3	5.2	1.7	0.76	J
56-23-5	Carbon Tetrachloride	0.86	2.6	0.86	0.37	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01139

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.060 Liter(s)

Initial Pressure (psig): -3.17 Final Pressure (psig): 7.23

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	11	9.2	3.1	1.4	
75-27-4	Bromodichloromethane	0.80	2.5	0.80	0.36	U
79-01-6	Trichloroethene	0.57	3.0	1.0	0.42	J
123-91-1	1,4-Dioxane	1.5	4.6	1.5	0.55	U
142-82-5	n-Heptane	2.5	4.0	2.5	0.66	U
108-10-1	4-Methyl-2-pentanone	1.3	7.7	1.3	0.56	J
108-88-3	Toluene	1.2	4.4	1.4	0.55	J
591-78-6	2-Hexanone	5.4	7.7	1.3	0.51	J
124-48-1	Dibromochloromethane	0.63	1.9	0.63	0.26	U
106-93-4	1,2-Dibromoethane	0.70	2.1	0.70	0.26	U
127-18-4	Tetrachloroethene	0.79	2.4	0.79	0.32	U
100-41-4	Ethylbenzene	1.2	3.8	1.2	0.55	U
179601-23-1	m,p-Xylenes	2.5	7.3	2.5	1.0	U
75-25-2	Bromoform	0.98	1.6	0.98	0.34	U
100-42-5	Styrene	2.4	3.9	2.4	0.64	U
95-47-6	o-Xylene	1.2	3.9	1.2	0.56	U
108-67-8	1,3,5-Trimethylbenzene	1.1	3.4	1.1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1.1	3.4	1.1	0.48	U
120-82-1	1,2,4-Trichlorobenzene	1.4	4.3	1.4	0.55	U
91-20-3	Naphthalene	1.9	3.1	1.9	0.79	U
1330-20-7	Xylenes, Total	2.5	7.3	2.5	1.0	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-013

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: 1SC00697

Initial Pressure (psig): -2.91 Final Pressure (psig): 6.40

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	220	360	220	90	U
75-71-8	Dichlorodifluoromethane (CFC 12)	77	130	77	21	U
74-87-3	Chloromethane	180	300	180	50	U
75-01-4	Vinyl Chloride	79	250	79	27	U
106-99-0	1,3-Butadiene	170	280	170	47	U
75-00-3	Chloroethane	140	240	140	30	U
64-17-5	Ethanol	530	3,400	530	230	U
67-64-1	Acetone	1,400	2,600	1,400	600	U
75-69-4	Trichlorofluoromethane	68	110	68	17	U
67-63-0	2-Propanol (Isopropyl Alcohol)	310	490	310	110	U
75-09-2	Methylene Chloride	110	180	110	52	U
76-13-1	Trichlorotrifluoroethane	18	83	26	12	J
75-15-0	Carbon Disulfide	210	380	210	61	U
75-34-3	1,1-Dichloroethane	97	160	97	23	U
78-93-3	2-Butanone (MEK)	130	400	130	45	U
141-78-6	Ethyl Acetate	220	330	220	93	U
110-54-3	n-Hexane	340	180	110	37	
67-66-3	Chloroform	42	130	42	17	U
109-99-9	Tetrahydrofuran (THF)	69	400	69	27	U
107-06-2	1,2-Dichloroethane	50	150	50	17	U
71-43-2	Benzene	54	190	64	29	J
56-23-5	Carbon Tetrachloride	32	97	32	14	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-013

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: 1SC00697

Initial Pressure (psig): -2.91 Final Pressure (psig): 6.40

Container Dilution Factor: 1.79

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	1,300	350	120	52	
75-27-4	Bromodichloromethane	30	93	30	14	U
79-01-6	Trichloroethene	26	110	38	16	J
123-91-1	1,4-Dioxane	42	170	56	21	J
142-82-5	n-Heptane	93	150	93	25	U
108-10-1	4-Methyl-2-pentanone	50	290	50	21	U
108-88-3	Toluene	39	160	54	21	J
591-78-6	2-Hexanone	50	290	50	19	U
124-48-1	Dibromochloromethane	24	73	24	9.8	U
106-93-4	1,2-Dibromoethane	26	81	26	9.6	U
127-18-4	Tetrachloroethene	37	92	30	12	J
100-41-4	Ethylbenzene	47	140	47	21	U
179601-23-1	m,p-Xylenes	93	270	93	38	U
75-25-2	Bromoform	37	61	37	13	U
100-42-5	Styrene	90	150	90	24	U
95-47-6	o-Xylene	47	150	47	21	U
108-67-8	1,3,5-Trimethylbenzene	41	130	41	19	U
95-63-6	1,2,4-Trimethylbenzene	41	130	41	18	U
120-82-1	1,2,4-Trichlorobenzene	51	160	51	21	U
91-20-3	Naphthalene	71	120	71	30	U
1330-20-7	Xylenes, Total	93	270	93	38	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00733

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.26

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	6.2	1.4	0.86	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.61	0.49	0.30	0.081	
74-87-3	Chloromethane	0.40	1.2	0.72	0.19	J
75-01-4	Vinyl Chloride	0.31	0.96	0.31	0.10	U
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.18	U
75-00-3	Chloroethane	0.56	0.91	0.56	0.12	U
64-17-5	Ethanol	4.4	13	2.0	0.91	J
67-64-1	Acetone	26	10	5.3	2.3	
75-69-4	Trichlorofluoromethane	0.19	0.42	0.26	0.067	J
67-63-0	2-Propanol (Isopropyl Alcohol)	11	1.9	1.2	0.41	
75-09-2	Methylene Chloride	0.43	0.69	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	0.22	0.32	0.10	0.046	J
75-15-0	Carbon Disulfide	2.0	1.5	0.80	0.24	
75-34-3	1,1-Dichloroethane	0.38	0.62	0.38	0.089	U
78-93-3	2-Butanone (MEK)	3.3	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	U
110-54-3	n-Hexane	0.45	0.68	0.42	0.14	J
67-66-3	Chloroform	0.14	0.50	0.16	0.067	J
109-99-9	Tetrahydrofuran (THF)	1.8	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	0.57	0.75	0.25	0.11	J
56-23-5	Carbon Tetrachloride	0.25	0.38	0.13	0.054	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-014

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00733

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.26

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.26	1.3	0.46	0.20	J
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	U
79-01-6	Trichloroethene	0.65	0.44	0.15	0.062	J
123-91-1	1,4-Dioxane	0.23	0.67	0.22	0.081	J
142-82-5	n-Heptane	0.90	0.59	0.36	0.096	J
108-10-1	4-Methyl-2-pentanone	0.14	1.1	0.19	0.082	J
108-88-3	Toluene	2.5	0.64	0.21	0.080	J
591-78-6	2-Hexanone	0.42	1.1	0.19	0.075	J
124-48-1	Dibromochloromethane	0.092	0.28	0.092	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	0.23	0.35	0.12	0.047	J
100-41-4	Ethylbenzene	0.21	0.55	0.18	0.080	J
179601-23-1	m,p-Xylenes	1.1	1.1	0.36	0.15	J
75-25-2	Bromoform	0.14	0.24	0.14	0.049	U
100-42-5	Styrene	0.35	0.57	0.35	0.093	U
95-47-6	o-Xylene	0.34	0.56	0.18	0.082	J
108-67-8	1,3,5-Trimethylbenzene	0.14	0.50	0.16	0.072	J
95-63-6	1,2,4-Trimethylbenzene	0.28	0.49	0.16	0.070	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.081	U
91-20-3	Naphthalene	0.27	0.46	0.27	0.11	U
1330-20-7	Xylenes, Total	1.4	1.1	0.36	0.15	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00332

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.32 Final Pressure (psig): 7.11

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.9	1.5	0.89	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.72	0.50	0.31	0.084	
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	J
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.95	0.58	0.12	U
64-17-5	Ethanol	3.5	14	2.1	0.94	J
67-64-1	Acetone	40	11	5.5	2.4	
75-69-4	Trichlorofluoromethane	0.20	0.44	0.27	0.069	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.2	2.0	1.2	0.43	
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	0.29	0.33	0.11	0.048	J
75-15-0	Carbon Disulfide	13	1.5	0.83	0.25	
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	U
78-93-3	2-Butanone (MEK)	6.9	1.6	0.52	0.18	
141-78-6	Ethyl Acetate	0.87	1.3	0.87	0.37	U
110-54-3	n-Hexane	0.46	0.71	0.44	0.15	J
67-66-3	Chloroform	0.20	0.52	0.17	0.070	J
109-99-9	Tetrahydrofuran (THF)	3.5	1.6	0.28	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	U
71-43-2	Benzene	0.56	0.78	0.26	0.12	J
56-23-5	Carbon Tetrachloride	0.39	0.39	0.13	0.056	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00332

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.32 Final Pressure (psig): 7.11

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.30</b>	1.4	0.47	0.21	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	<b>U</b>
79-01-6	Trichloroethene	<b>0.078</b>	0.46	0.15	0.064	<b>J</b>
123-91-1	1,4-Dioxane	<b>0.29</b>	0.69	0.23	0.084	<b>J</b>
142-82-5	n-Heptane	<b>0.83</b>	0.61	0.37	0.10	
108-10-1	4-Methyl-2-pentanone	<b>0.32</b>	1.2	0.20	0.086	<b>J</b>
108-88-3	Toluene	<b>2.1</b>	0.66	0.22	0.083	
591-78-6	2-Hexanone	<b>0.50</b>	1.2	0.20	0.077	<b>J</b>
124-48-1	Dibromochloromethane	0.096	0.29	0.096	0.039	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	<b>U</b>
127-18-4	Tetrachloroethene	<b>21</b>	0.37	0.12	0.049	
100-41-4	Ethylbenzene	<b>0.19</b>	0.57	0.19	0.083	<b>J</b>
179601-23-1	m,p-Xylenes	<b>0.97</b>	1.1	0.38	0.15	<b>J</b>
75-25-2	Bromoform	0.15	0.25	0.15	0.051	<b>U</b>
100-42-5	Styrene	0.36	0.59	0.36	0.097	<b>U</b>
95-47-6	o-Xylene	<b>0.32</b>	0.59	0.19	0.085	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.11</b>	0.52	0.17	0.075	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.27</b>	0.51	0.17	0.072	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.084	<b>U</b>
91-20-3	Naphthalene	0.28	0.48	0.28	0.12	<b>U</b>
1330-20-7	Xylenes, Total	<b>1.3</b>	1.1	0.38	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-016

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01270

Initial Pressure (psig): -4.12 Final Pressure (psig): 6.97

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.45</b>	1.5	0.95	0.39	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.82</b>	0.54	0.33	0.090	
74-87-3	Chloromethane	0.79	1.3	0.79	0.21	<b>U</b>
75-01-4	Vinyl Chloride	0.34	1.1	0.34	0.11	<b>U</b>
106-99-0	1,3-Butadiene	0.74	1.2	0.74	0.20	<b>U</b>
75-00-3	Chloroethane	0.62	1.0	0.62	0.13	<b>U</b>
64-17-5	Ethanol	<b>3.0</b>	14	2.3	1.0	<b>J</b>
67-64-1	Acetone	<b>7.3</b>	11	5.8	2.6	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>0.19</b>	0.47	0.29	0.074	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.46	<b>U</b>
75-09-2	Methylene Chloride	0.47	0.77	0.47	0.22	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>0.53</b>	0.35	0.11	0.051	
75-15-0	Carbon Disulfide	<b>1.2</b>	1.6	0.89	0.26	<b>J</b>
75-34-3	1,1-Dichloroethane	0.42	0.68	0.42	0.099	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.6</b>	1.7	0.56	0.19	
141-78-6	Ethyl Acetate	<b>0.92</b>	1.4	0.92	0.40	<b>J</b>
110-54-3	n-Hexane	<b>1.1</b>	0.76	0.47	0.16	
67-66-3	Chloroform	<b>0.25</b>	0.56	0.18	0.075	<b>J</b>
109-99-9	Tetrahydrofuran (THF)	<b>1.2</b>	1.7	0.30	0.12	<b>J</b>
107-06-2	1,2-Dichloroethane	0.22	0.66	0.22	0.075	<b>U</b>
71-43-2	Benzene	<b>2.2</b>	0.83	0.27	0.12	
56-23-5	Carbon Tetrachloride	<b>0.48</b>	0.42	0.14	0.060	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-016

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01270

Initial Pressure (psig): -4.12 Final Pressure (psig): 6.97

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.56</b>	1.5	0.51	0.22	<b>J</b>
75-27-4	Bromodichloromethane	0.13	0.40	0.13	0.059	<b>U</b>
79-01-6	Trichloroethene	<b>0.32</b>	0.49	0.16	0.069	<b>J</b>
123-91-1	1,4-Dioxane	0.24	0.74	0.24	0.090	<b>U</b>
142-82-5	n-Heptane	<b>2.0</b>	0.65	0.40	0.11	
108-10-1	4-Methyl-2-pentanone	0.21	1.3	0.21	0.091	<b>U</b>
108-88-3	Toluene	<b>4.1</b>	0.71	0.23	0.088	
591-78-6	2-Hexanone	0.21	1.3	0.21	0.083	<b>U</b>
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.35	0.11	0.041	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.25</b>	0.39	0.13	0.052	<b>J</b>
100-41-4	Ethylbenzene	<b>0.26</b>	0.61	0.20	0.089	<b>J</b>
179601-23-1	m,p-Xylenes	<b>1.4</b>	1.2	0.40	0.17	
75-25-2	Bromoform	0.16	0.26	0.16	0.055	<b>U</b>
100-42-5	Styrene	0.39	0.63	0.39	0.10	<b>U</b>
95-47-6	o-Xylene	<b>0.38</b>	0.63	0.20	0.091	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.12</b>	0.55	0.18	0.080	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.26</b>	0.54	0.18	0.077	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.22	0.69	0.22	0.090	<b>U</b>
91-20-3	Naphthalene	0.30	0.51	0.30	0.13	<b>U</b>
1330-20-7	Xylenes, Total	<b>1.8</b>	1.2	0.40	0.17	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-017

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00612

Initial Pressure (psig): -5.18 Final Pressure (psig): 6.43

Container Dilution Factor: 2.22

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.0	1.7	1.0	0.42	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.2	0.58	0.36	0.098	
74-87-3	Chloromethane	0.86	1.4	0.86	0.23	U
75-01-4	Vinyl Chloride	0.37	1.2	0.37	0.12	U
106-99-0	1,3-Butadiene	0.80	1.3	0.80	0.22	U
75-00-3	Chloroethane	0.67	1.1	0.67	0.14	U
64-17-5	Ethanol	17	16	2.4	1.1	
67-64-1	Acetone	8.1	12	6.3	2.8	J
75-69-4	Trichlorofluoromethane	0.15	0.50	0.32	0.080	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.0	2.3	1.4	0.50	J
75-09-2	Methylene Chloride	0.51	0.83	0.51	0.24	U
76-13-1	Trichlorotrifluoroethane	0.59	0.38	0.12	0.055	
75-15-0	Carbon Disulfide	1.8	1.8	0.96	0.29	
75-34-3	1,1-Dichloroethane	0.45	0.74	0.45	0.11	U
78-93-3	2-Butanone (MEK)	2.9	1.9	0.60	0.21	
141-78-6	Ethyl Acetate	1.1	1.5	1.0	0.43	J
110-54-3	n-Hexane	0.36	0.82	0.50	0.17	J
67-66-3	Chloroform	0.13	0.60	0.19	0.081	J
109-99-9	Tetrahydrofuran (THF)	0.83	1.9	0.32	0.13	J
107-06-2	1,2-Dichloroethane	0.23	0.71	0.23	0.081	U
71-43-2	Benzene	0.40	0.90	0.30	0.13	J
56-23-5	Carbon Tetrachloride	0.54	0.45	0.15	0.065	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-017

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00612

Initial Pressure (psig): -5.18 Final Pressure (psig): 6.43

Container Dilution Factor: 2.22

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.55	1.6	0.55	0.24	U
75-27-4	Bromodichloromethane	0.14	0.43	0.14	0.064	U
79-01-6	Trichloroethene	<b>0.46</b>	0.53	0.18	0.074	J
123-91-1	1,4-Dioxane	0.26	0.80	0.26	0.097	U
142-82-5	n-Heptane	<b>0.63</b>	0.70	0.43	0.12	J
108-10-1	4-Methyl-2-pentanone	0.23	1.4	0.23	0.099	U
108-88-3	Toluene	<b>1.9</b>	0.77	0.25	0.096	J
591-78-6	2-Hexanone	<b>0.23</b>	1.4	0.23	0.089	J
124-48-1	Dibromochloromethane	0.11	0.34	0.11	0.046	U
106-93-4	1,2-Dibromoethane	0.12	0.38	0.12	0.045	U
127-18-4	Tetrachloroethene	<b>0.31</b>	0.43	0.14	0.056	J
100-41-4	Ethylbenzene	<b>0.15</b>	0.66	0.22	0.096	J
179601-23-1	m,p-Xylenes	<b>0.74</b>	1.3	0.43	0.18	J
75-25-2	Bromoform	0.17	0.28	0.17	0.059	U
100-42-5	Styrene	0.42	0.68	0.42	0.11	U
95-47-6	o-Xylene	<b>0.23</b>	0.68	0.22	0.098	J
108-67-8	1,3,5-Trimethylbenzene	0.19	0.60	0.19	0.087	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.17</b>	0.59	0.19	0.084	J
120-82-1	1,2,4-Trichlorobenzene	0.24	0.75	0.24	0.097	U
91-20-3	Naphthalene	0.33	0.55	0.33	0.14	U
1330-20-7	Xylenes, Total	<b>0.97</b>	1.3	0.43	0.18	J

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-018

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00790

Initial Pressure (psig): -4.46 Final Pressure (psig): 6.71

Container Dilution Factor: 2.09

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.4	1.6	0.97	0.39	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3.9	0.55	0.34	0.092	
74-87-3	Chloromethane	0.81	1.3	0.81	0.22	U
75-01-4	Vinyl Chloride	0.35	1.1	0.35	0.12	U
106-99-0	1,3-Butadiene	0.76	1.2	0.76	0.21	U
75-00-3	Chloroethane	0.63	1.0	0.63	0.13	U
64-17-5	Ethanol	5.2	15	2.3	1.0	J
67-64-1	Acetone	6.5	11	5.9	2.6	J
75-69-4	Trichlorofluoromethane	0.34	0.47	0.30	0.075	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.47	U
75-09-2	Methylene Chloride	0.48	0.78	0.48	0.23	U
76-13-1	Trichlorotrifluoroethane	0.30	0.36	0.12	0.052	J
75-15-0	Carbon Disulfide	21	1.7	0.91	0.27	
75-34-3	1,1-Dichloroethane	0.43	0.70	0.43	0.10	U
78-93-3	2-Butanone (MEK)	0.97	1.8	0.57	0.19	J
141-78-6	Ethyl Acetate	12	1.5	0.94	0.41	
110-54-3	n-Hexane	0.35	0.77	0.47	0.16	J
67-66-3	Chloroform	0.18	0.57	0.18	0.076	U
109-99-9	Tetrahydrofuran (THF)	0.96	1.8	0.30	0.12	J
107-06-2	1,2-Dichloroethane	0.22	0.67	0.22	0.076	U
71-43-2	Benzene	0.56	0.85	0.28	0.13	J
56-23-5	Carbon Tetrachloride	0.25	0.42	0.14	0.061	J

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-018

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00790

Initial Pressure (psig): -4.46 Final Pressure (psig): 6.71

Container Dilution Factor: 2.09

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.52	1.5	0.52	0.23	U
75-27-4	Bromodichloromethane	0.13	0.41	0.13	0.060	U
79-01-6	Trichloroethene	<b>1.0</b>	0.50	0.17	0.070	
123-91-1	1,4-Dioxane	<b>0.61</b>	0.75	0.25	0.091	J
142-82-5	n-Heptane	<b>0.60</b>	0.66	0.41	0.11	J
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.093	U
108-88-3	Toluene	<b>1.9</b>	0.72	0.24	0.090	
591-78-6	2-Hexanone	<b>0.12</b>	1.3	0.22	0.084	J
124-48-1	Dibromochloromethane	0.10	0.32	0.10	0.043	U
106-93-4	1,2-Dibromoethane	0.12	0.35	0.12	0.042	U
127-18-4	Tetrachloroethene	<b>0.23</b>	0.40	0.13	0.053	J
100-41-4	Ethylbenzene	<b>0.12</b>	0.63	0.20	0.090	J
179601-23-1	m,p-Xylenes	<b>0.61</b>	1.2	0.41	0.17	J
75-25-2	Bromoform	0.16	0.27	0.16	0.056	U
100-42-5	Styrene	0.39	0.64	0.39	0.11	U
95-47-6	o-Xylene	<b>0.19</b>	0.64	0.20	0.093	J
108-67-8	1,3,5-Trimethylbenzene	0.18	0.56	0.18	0.082	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.16</b>	0.55	0.18	0.079	J
120-82-1	1,2,4-Trichlorobenzene	0.23	0.70	0.23	0.092	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	<b>0.80</b>	1.2	0.41	0.17	J

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01089

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.0090 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 9.26

Container Dilution Factor: 2.19

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	88	74	45	18	
75-71-8	Dichlorodifluoromethane (CFC 12)	16	26	16	4.3	U
74-87-3	Chloromethane	24	61	38	10	J
75-01-4	Vinyl Chloride	16	50	16	5.4	U
106-99-0	1,3-Butadiene	35	57	35	9.7	U
75-00-3	Chloroethane	30	48	30	6.1	U
64-17-5	Ethanol	110	680	110	48	U
67-64-1	Acetone	280	530	280	120	U
75-69-4	Trichlorofluoromethane	14	22	14	3.5	U
67-63-0	2-Propanol (Isopropyl Alcohol)	35	99	62	22	J
75-09-2	Methylene Chloride	22	36	22	11	U
76-13-1	Trichlorotrifluoroethane	3.5	17	5.4	2.4	J
75-15-0	Carbon Disulfide	72	78	42	13	J
75-34-3	1,1-Dichloroethane	20	32	20	4.7	U
78-93-3	2-Butanone (MEK)	30	83	26	9.1	J
141-78-6	Ethyl Acetate	44	68	44	19	U
110-54-3	n-Hexane	130	36	22	7.6	
67-66-3	Chloroform	8.5	26	8.5	3.5	U
109-99-9	Tetrahydrofuran (THF)	17	83	14	5.5	J
107-06-2	1,2-Dichloroethane	10	31	10	3.5	U
71-43-2	Benzene	640	40	13	5.9	
56-23-5	Carbon Tetrachloride	6.6	20	6.6	2.9	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01089

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.0090 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 9.26

Container Dilution Factor: 2.19

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	200	71	24	11	
75-27-4	Bromodichloromethane	6.2	19	6.2	2.8	U
79-01-6	Trichloroethene	7.7	23	7.7	3.3	J
123-91-1	1,4-Dioxane	9.1	35	11	4.3	J
142-82-5	n-Heptane	110	31	19	5.0	
108-10-1	4-Methyl-2-pentanone	10	59	10	4.3	U
108-88-3	Toluene	820	34	11	4.2	
591-78-6	2-Hexanone	10	59	10	3.9	U
124-48-1	Dibromochloromethane	4.9	15	4.9	2.0	U
106-93-4	1,2-Dibromoethane	2.6	16	5.4	2.0	J
127-18-4	Tetrachloroethene	6.6	19	6.1	2.5	J
100-41-4	Ethylbenzene	28	29	9.5	4.2	J
179601-23-1	m,p-Xylenes	81	56	19	7.8	
75-25-2	Bromoform	7.5	12	7.5	2.6	U
100-42-5	Styrene	18	30	18	4.9	U
95-47-6	o-Xylene	56	30	9.5	4.3	
108-67-8	1,3,5-Trimethylbenzene	31	26	8.4	3.8	
95-63-6	1,2,4-Trimethylbenzene	6.1	26	8.4	3.7	J
120-82-1	1,2,4-Trichlorobenzene	10	33	10	4.3	U
91-20-3	Naphthalene	14	24	14	6.0	U
1330-20-7	Xylenes, Total	140	56	19	7.8	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01025

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.88 Final Pressure (psig): 6.76

Container Dilution Factor: 2.19

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.0	1.7	1.0	0.41	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.92</b>	0.58	0.35	0.096	
74-87-3	Chloromethane	0.85	1.4	0.85	0.23	U
75-01-4	Vinyl Chloride	0.36	1.1	0.36	0.12	U
106-99-0	1,3-Butadiene	0.79	1.3	0.79	0.22	U
75-00-3	Chloroethane	0.66	1.1	0.66	0.14	U
64-17-5	Ethanol	<b>2.5</b>	15	2.4	1.1	J
67-64-1	Acetone	<b>6.4</b>	12	6.2	2.8	J
75-69-4	Trichlorofluoromethane	<b>0.23</b>	0.50	0.31	0.079	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.49	U
75-09-2	Methylene Chloride	0.50	0.82	0.50	0.24	U
76-13-1	Trichlorotrifluoroethane	<b>0.64</b>	0.38	0.12	0.054	
75-15-0	Carbon Disulfide	<b>4.9</b>	1.8	0.95	0.28	
75-34-3	1,1-Dichloroethane	0.45	0.73	0.45	0.11	U
78-93-3	2-Butanone (MEK)	<b>0.70</b>	1.9	0.59	0.20	J
141-78-6	Ethyl Acetate	<b>2.9</b>	1.5	0.99	0.43	
110-54-3	n-Hexane	0.50	0.81	0.50	0.17	U
67-66-3	Chloroform	<b>0.30</b>	0.59	0.19	0.080	J
109-99-9	Tetrahydrofuran (THF)	<b>0.16</b>	1.9	0.32	0.12	J
107-06-2	1,2-Dichloroethane	0.23	0.70	0.23	0.080	U
71-43-2	Benzene	<b>0.20</b>	0.89	0.29	0.13	J
56-23-5	Carbon Tetrachloride	<b>0.20</b>	0.44	0.15	0.064	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-020

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01025

Initial Pressure (psig): -4.88 Final Pressure (psig): 6.76

Container Dilution Factor: 2.19

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.54	1.6	0.54	0.24	U
75-27-4	Bromodichloromethane	0.14	0.43	0.14	0.063	U
79-01-6	Trichloroethene	<b>0.81</b>	0.52	0.17	0.073	
123-91-1	1,4-Dioxane	<b>0.15</b>	0.79	0.26	0.096	J
142-82-5	n-Heptane	0.43	0.69	0.43	0.11	U
108-10-1	4-Methyl-2-pentanone	<b>0.099</b>	1.3	0.23	0.098	J
108-88-3	Toluene	<b>0.68</b>	0.76	0.25	0.094	J
591-78-6	2-Hexanone	<b>0.20</b>	1.3	0.23	0.088	J
124-48-1	Dibromochloromethane	0.11	0.33	0.11	0.045	U
106-93-4	1,2-Dibromoethane	0.12	0.37	0.12	0.044	U
127-18-4	Tetrachloroethene	<b>0.39</b>	0.42	0.14	0.056	J
100-41-4	Ethylbenzene	<b>0.25</b>	0.66	0.21	0.095	J
179601-23-1	m,p-Xylenes	<b>0.52</b>	1.3	0.43	0.18	J
75-25-2	Bromoform	0.17	0.28	0.17	0.058	U
100-42-5	Styrene	0.41	0.67	0.41	0.11	U
95-47-6	o-Xylene	<b>0.14</b>	0.67	0.21	0.097	J
108-67-8	1,3,5-Trimethylbenzene	0.19	0.59	0.19	0.086	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.12</b>	0.58	0.19	0.082	J
120-82-1	1,2,4-Trichlorobenzene	0.24	0.74	0.24	0.096	U
91-20-3	Naphthalene	<b>0.27</b>	0.54	0.32	0.14	J
1330-20-7	Xylenes, Total	<b>0.66</b>	1.3	0.43	0.18	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070  
 ALS Sample ID: P201110-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/10/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070  
 ALS Sample ID: P201110-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/10/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/19 - 10/20/20

Analyst: Lusine Hakobyan

Date(s) Received: 10/26/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 11/10/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201110-MB	98	105	102	70-130	
Lab Control Sample	P201110-LCS	98	101	101	70-130	
Duplicate Lab Control Sample	P201110-DLCS	98	105	104	70-130	
SV118-450-604	P2006070-001	98	105	100	70-130	
SV118-450-604	P2006070-001DUP	99	106	99	70-130	
SV119-025-204	P2006070-002	99	105	104	70-130	
SV119-050-204	P2006070-003	99	104	105	70-130	
SV119-150-204	P2006070-004	101	100	105	70-130	
SV119-250-204	P2006070-005	101	100	103	70-130	
SV119-350-204	P2006070-006	100	98	102	70-130	
SV119-450-204	P2006070-007	102	98	101	70-130	
SV126-025-204	P2006070-008	98	105	105	70-130	
SV126-050-204	P2006070-009	99	104	105	70-130	
SV126-150-204	P2006070-010	100	102	105	70-130	
SV126-250-204	P2006070-011	100	102	106	70-130	
SV126-350-204	P2006070-012	103	98	106	70-130	
SV126-450-204	P2006070-013	102	101	104	70-130	
SV129-025-204	P2006070-014	99	102	107	70-130	
SV129-050-204	P2006070-015	98	100	107	70-130	
SV129-150-204	P2006070-016	98	100	106	70-130	
SV129-250-204	P2006070-017	100	99	107	70-130	
SV129-350-204	P2006070-018	99	100	105	70-130	
SV129-450-204	P2006070-019	101	105	103	70-130	
SV130-025-204	P2006070-020	100	101	106	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070  
 ALS Sample ID: P201110-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/10/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	122	117	117	96	96	57-136	0	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	37.7	37.4	89	88	59-128	1	25	
74-87-3	Chloromethane	99.8	73.3	72.4	73	73	59-132	0	25	
75-01-4	Vinyl Chloride	81.4	74.8	74.5	92	92	64-127	0	25	
106-99-0	1,3-Butadiene	95.0	79.1	81.2	83	85	66-134	2	25	
75-00-3	Chloroethane	77.3	70.5	71.2	91	92	63-127	1	25	
64-17-5	Ethanol	530	482	487	91	92	59-125	1	25	
67-64-1	Acetone	435	394	395	91	91	58-128	0	25	
75-69-4	Trichlorofluoromethane	36.3	33.5	34.1	92	94	62-126	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	142	142	86	86	52-125	0	25	
75-09-2	Methylene Chloride	59.9	54.4	54.2	91	90	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	27.9	25.8	26.0	92	93	66-126	1	25	
75-15-0	Carbon Disulfide	137	127	129	93	94	57-134	1	25	
75-34-3	1,1-Dichloroethane	52.4	47.8	47.9	91	91	68-126	0	25	
78-93-3	2-Butanone (MEK)	140	138	138	99	99	67-130	0	25	
141-78-6	Ethyl Acetate	117	145	144	124	123	65-128	0.8	25	
110-54-3	n-Hexane	60.2	60.8	60.5	101	100	63-120	1	25	
67-66-3	Chloroform	43.8	39.8	39.9	91	91	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	136	127	128	93	94	64-123	1	25	
107-06-2	1,2-Dichloroethane	51.4	47.9	47.8	93	93	65-128	0	25	
71-43-2	Benzene	63.9	58.0	58.0	91	91	69-119	0	25	
56-23-5	Carbon Tetrachloride	33.4	30.4	30.4	91	91	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070  
 ALS Sample ID: P201110-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/10/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		DOD		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	121	116	115	96	95	70-117	1	25	
75-27-4	Bromodichloromethane	31.4	30.3	30.1	96	96	72-128	0	25	
79-01-6	Trichloroethene	38.3	35.3	35.2	92	92	71-123	0	25	
123-91-1	1,4-Dioxane	57.7	54.7	54.6	95	95	71-122	0	25	
142-82-5	n-Heptane	51.3	48.6	48.5	95	95	69-123	0	25	
108-10-1	4-Methyl-2-pentanone	102	99.0	97.6	97	96	67-130	1	25	
108-88-3	Toluene	54.7	52.0	53.6	95	98	66-119	3	25	
591-78-6	2-Hexanone	98.7	101	102	102	103	62-128	1	25	
124-48-1	Dibromochloromethane	24.7	26.3	26.5	106	107	70-130	0.9	25	
106-93-4	1,2-Dibromoethane	27.1	27.3	27.4	101	101	74-122	0	25	
127-18-4	Tetrachloroethene	30.4	29.8	30.0	98	99	66-124	1	25	
100-41-4	Ethylbenzene	47.4	46.6	48.3	98	102	70-124	4	25	
179601-23-1	m,p-Xylenes	94.9	94.2	98.7	99	104	61-134	5	25	
75-25-2	Bromoform	20.1	20.6	21.4	102	106	66-139	4	25	
100-42-5	Styrene	48.4	51.9	53.9	107	111	73-127	4	25	
95-47-6	o-Xylene	47.4	48.0	49.4	101	104	67-125	3	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	42.1	45.2	100	108	67-130	8	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	45.1	46.8	109	113	66-132	4	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	60.2	61.5	115	118	55-142	3	25	
91-20-3	Naphthalene	37.8	39.6	40.0	105	106	57-138	0.9	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-604

ALS Project ID: P2006070

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006070-001DUP

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.015 Liter(s)

Test Notes:

Container ID: 1SS00219

Initial Pressure (psig): -6.37

Final Pressure (psig): 6.37

Container Dilution Factor: 2.53

Compound	Sample Result ppbV	Duplicate		Average ppbV	% RPD	RPD Limit	Data Qualifier
		Sample Result ppbV	Sample Result ppbV				
Propene	19	19	19	19	0	25	J
Dichlorodifluoromethane (CFC 12)	ND	ND	ND	-	-	25	
Chloromethane	35	36	35.5	35.5	3	25	J
Vinyl Chloride	4.9	5.4	5.15	5.15	10	25	J
1,3-Butadiene	ND	ND	-	-	-	25	
Chloroethane	ND	ND	-	-	-	25	
Ethanol	ND	ND	-	-	-	25	
Acetone	ND	ND	-	-	-	25	
Trichlorofluoromethane	ND	ND	-	-	-	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	-	-	-	25	
Methylene Chloride	ND	ND	-	-	-	25	
Trichlorotrifluoroethane	2.8	3.0	2.9	2.9	7	25	J
Carbon Disulfide	120	120	120	120	0	25	
1,1-Dichloroethane	ND	ND	-	-	-	25	
2-Butanone (MEK)	ND	ND	-	-	-	25	
Ethyl Acetate	ND	ND	-	-	-	25	
n-Hexane	270	270	270	270	0	25	
Chloroform	ND	ND	-	-	-	25	
Tetrahydrofuran (THF)	29	29	29	29	0	25	J
1,2-Dichloroethane	ND	ND	-	-	-	25	
Benzene	26	26	26	26	0	25	J
Carbon Tetrachloride	19	19	19	19	0	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-001DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00219

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -6.37

Final Pressure (psig): 6.37

Container Dilution Factor: 2.53

Compound	Sample Result ppbV	Duplicate		Average ppbV	% RPD	RPD Limit	Data Qualifier
		Sample Result ppbV	Sample Result ppbV				
Cyclohexane	4,400	4,300	4,350	4350	2	25	
Bromodichloromethane	ND	ND	-	-	-	25	
Trichloroethene	ND	ND	-	-	-	25	
1,4-Dioxane	ND	ND	-	-	-	25	
n-Heptane	4.5	4.6	4.55	2	25	J	
4-Methyl-2-pentanone	ND	ND	-	-	-	25	
Toluene	140	130	135	7	25		
2-Hexanone	ND	ND	-	-	-	25	
Dibromochloromethane	ND	ND	-	-	-	25	
1,2-Dibromoethane	ND	ND	-	-	-	25	
Tetrachloroethene	ND	ND	-	-	-	25	
Ethylbenzene	4.4	4.2	4.3	5	25	J	
m,p-Xylenes	7.8	7.6	7.7	3	25	J	
Bromoform	ND	ND	-	-	-	25	
Styrene	ND	ND	-	-	-	25	
o-Xylene	6.5	6.3	6.4	3	25	J	
1,3,5-Trimethylbenzene	2.8	2.8	2.8	0	25	J	
1,2,4-Trimethylbenzene	ND	ND	-	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	-	-	-	25	
Naphthalene	ND	ND	-	-	-	25	
Xylenes, Total	14	14	14	0	25	J	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00219

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -6.37 Final Pressure (psig): 6.37

Container Dilution Factor: 2.53

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	33	88	54	22	J
75-71-8	Dichlorodifluoromethane (CFC 12)	54	88	54	15	U
74-87-3	Chloromethane	72	88	54	15	J
75-01-4	Vinyl Chloride	12	89	29	9.6	J
106-99-0	1,3-Butadiene	54	88	54	15	U
75-00-3	Chloroethane	54	88	54	11	U
64-17-5	Ethanol	140	890	140	62	U
67-64-1	Acetone	460	880	460	200	U
75-69-4	Trichlorofluoromethane	54	86	54	14	U
67-63-0	2-Propanol (Isopropyl Alcohol)	110	170	110	37	U
75-09-2	Methylene Chloride	54	88	54	25	U
76-13-1	Trichlorotrifluoroethane	21	89	29	13	J
75-15-0	Carbon Disulfide	360	170	91	27	
75-34-3	1,1-Dichloroethane	56	91	56	13	U
78-93-3	2-Butanone (MEK)	54	170	54	19	U
141-78-6	Ethyl Acetate	110	170	110	47	U
110-54-3	n-Hexane	940	88	54	19	
67-66-3	Chloroform	29	89	29	12	U
109-99-9	Tetrahydrofuran (THF)	85	170	29	11	J
107-06-2	1,2-Dichloroethane	29	88	29	10	U
71-43-2	Benzene	84	88	29	13	J
56-23-5	Carbon Tetrachloride	120	86	29	12	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00219

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -6.37 Final Pressure (psig): 6.37

Container Dilution Factor: 2.53

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	15,000	170	57	25	
75-27-4	Bromodichloromethane	29	88	29	13	U
79-01-6	Trichloroethene	29	86	29	12	U
123-91-1	1,4-Dioxane	29	88	29	11	U
142-82-5	n-Heptane	18	88	54	14	J
108-10-1	4-Methyl-2-pentanone	29	170	29	12	U
108-88-3	Toluene	510	88	29	11	
591-78-6	2-Hexanone	29	170	29	11	U
124-48-1	Dibromochloromethane	29	88	29	12	U
106-93-4	1,2-Dibromoethane	29	88	29	10	U
127-18-4	Tetrachloroethene	29	88	29	12	U
100-41-4	Ethylbenzene	19	88	29	13	J
179601-23-1	m,p-Xylenes	34	170	57	24	J
75-25-2	Bromoform	54	89	54	19	U
100-42-5	Styrene	54	88	54	15	U
95-47-6	o-Xylene	28	89	29	13	J
108-67-8	1,3,5-Trimethylbenzene	14	89	29	13	J
95-63-6	1,2,4-Trimethylbenzene	29	88	29	12	U
120-82-1	1,2,4-Trichlorobenzene	54	170	54	22	U
91-20-3	Naphthalene	52	88	52	22	U
1330-20-7	Xylenes, Total	62	170	57	24	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00008

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.39 Final Pressure (psig): 6.98

Container Dilution Factor: 2.10

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.2	2.7	1.7	0.68	J
75-71-8	Dichlorodifluoromethane (CFC 12)	8.2	2.7	1.7	0.46	
74-87-3	Chloromethane	1.7	2.7	1.7	0.45	U
75-01-4	Vinyl Chloride	0.89	2.8	0.89	0.30	U
106-99-0	1,3-Butadiene	1.7	2.7	1.7	0.46	U
75-00-3	Chloroethane	1.7	2.7	1.7	0.35	U
64-17-5	Ethanol	4.6	28	4.4	1.9	J
67-64-1	Acetone	19	27	14	6.3	J
75-69-4	Trichlorofluoromethane	2.9	2.7	1.7	0.43	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.3	5.3	3.3	1.2	U
75-09-2	Methylene Chloride	1.7	2.7	1.7	0.79	U
76-13-1	Trichlorotrifluoroethane	120	2.8	0.89	0.40	
75-15-0	Carbon Disulfide	25	5.3	2.8	0.84	
75-34-3	1,1-Dichloroethane	1.7	2.8	1.7	0.41	U
78-93-3	2-Butanone (MEK)	3.5	5.3	1.7	0.58	J
141-78-6	Ethyl Acetate	3.4	5.3	3.4	1.5	U
110-54-3	n-Hexane	1.7	2.7	1.7	0.58	U
67-66-3	Chloroform	0.61	2.8	0.89	0.37	J
109-99-9	Tetrahydrofuran (THF)	0.89	5.3	0.89	0.35	U
107-06-2	1,2-Dichloroethane	0.89	2.7	0.89	0.31	U
71-43-2	Benzene	0.98	2.7	0.89	0.40	J
56-23-5	Carbon Tetrachloride	2.7	2.7	0.89	0.39	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-002

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00008

Initial Pressure (psig): -4.39 Final Pressure (psig): 6.98

Container Dilution Factor: 2.10

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	5.3	5.3	1.8	0.79	
75-27-4	Bromodichloromethane	0.89	2.7	0.89	0.40	U
79-01-6	Trichloroethene	0.89	2.7	0.89	0.38	U
123-91-1	1,4-Dioxane	0.50	2.7	0.89	0.33	J
142-82-5	n-Heptane	1.7	2.7	1.7	0.45	U
108-10-1	4-Methyl-2-pentanone	0.89	5.3	0.89	0.38	U
108-88-3	Toluene	11	2.7	0.89	0.34	
591-78-6	2-Hexanone	0.89	5.3	0.89	0.35	U
124-48-1	Dibromochloromethane	0.89	2.7	0.89	0.37	U
106-93-4	1,2-Dibromoethane	0.89	2.7	0.89	0.33	U
127-18-4	Tetrachloroethene	3.5	2.7	0.89	0.36	
100-41-4	Ethylbenzene	0.81	2.7	0.89	0.39	J
179601-23-1	m,p-Xylenes	5.9	5.3	1.8	0.74	
75-25-2	Bromoform	1.7	2.8	1.7	0.58	U
100-42-5	Styrene	1.7	2.7	1.7	0.45	U
95-47-6	o-Xylene	1.5	2.8	0.89	0.40	J
108-67-8	1,3,5-Trimethylbenzene	0.55	2.8	0.89	0.40	J
95-63-6	1,2,4-Trimethylbenzene	0.47	2.7	0.89	0.39	J
120-82-1	1,2,4-Trichlorobenzene	1.7	5.3	1.7	0.68	U
91-20-3	Naphthalene	1.6	2.7	1.6	0.68	U
1330-20-7	Xylenes, Total	7.3	5.3	1.8	0.74	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-003

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00026

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.31

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.3	2.4	1.5	0.61	J
75-71-8	Dichlorodifluoromethane (CFC 12)	5.6	2.4	1.5	0.41	
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	0.80	2.5	0.80	0.27	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	4.9	25	3.9	1.7	J
67-64-1	Acetone	22	24	13	5.6	J
75-69-4	Trichlorofluoromethane	2.6	2.4	1.5	0.38	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.7	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	140	2.5	0.80	0.36	
75-15-0	Carbon Disulfide	27	4.7	2.5	0.75	
75-34-3	1,1-Dichloroethane	1.6	2.5	1.6	0.37	U
78-93-3	2-Butanone (MEK)	5.4	4.7	1.5	0.52	
141-78-6	Ethyl Acetate	3.1	4.7	3.1	1.3	U
110-54-3	n-Hexane	1.5	2.4	1.5	0.52	U
67-66-3	Chloroform	0.80	2.5	0.80	0.33	U
109-99-9	Tetrahydrofuran (THF)	0.80	4.7	0.80	0.31	U
107-06-2	1,2-Dichloroethane	0.80	2.4	0.80	0.28	U
71-43-2	Benzene	0.99	2.4	0.80	0.36	J
56-23-5	Carbon Tetrachloride	3.0	2.4	0.80	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-003

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00026

Initial Pressure (psig): -2.99 Final Pressure (psig): 7.31

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.2	4.7	1.6	0.71	J
75-27-4	Bromodichloromethane	0.80	2.4	0.80	0.36	U
79-01-6	Trichloroethene	0.80	2.4	0.80	0.34	U
123-91-1	1,4-Dioxane	0.89	2.4	0.80	0.30	J
142-82-5	n-Heptane	1.5	2.4	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	0.80	4.7	0.80	0.34	U
108-88-3	Toluene	1.1	2.4	0.80	0.31	J
591-78-6	2-Hexanone	0.80	4.7	0.80	0.31	U
124-48-1	Dibromochloromethane	0.80	2.4	0.80	0.33	U
106-93-4	1,2-Dibromoethane	0.80	2.4	0.80	0.29	U
127-18-4	Tetrachloroethene	3.5	2.4	0.80	0.32	
100-41-4	Ethylbenzene	0.80	2.4	0.80	0.35	U
179601-23-1	m,p-Xylenes	1.6	4.7	1.6	0.66	U
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	0.80	2.5	0.80	0.36	U
108-67-8	1,3,5-Trimethylbenzene	0.80	2.5	0.80	0.36	U
95-63-6	1,2,4-Trimethylbenzene	0.80	2.4	0.80	0.35	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	1.5	2.4	1.5	0.61	U
1330-20-7	Xylenes, Total	1.6	4.7	1.6	0.66	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00146

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -4.93 Final Pressure (psig): 6.67

Container Dilution Factor: 2.19

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>680</b>	570	350	140	
75-71-8	Dichlorodifluoromethane (CFC 12)	350	570	350	95	U
74-87-3	Chloromethane	350	570	350	94	U
75-01-4	Vinyl Chloride	190	580	190	62	U
106-99-0	1,3-Butadiene	350	570	350	96	U
75-00-3	Chloroethane	350	570	350	72	U
64-17-5	Ethanol	910	5,800	910	410	U
67-64-1	Acetone	3,000	5,700	3,000	1,300	U
75-69-4	Trichlorofluoromethane	350	560	350	89	U
67-63-0	2-Propanol (Isopropyl Alcohol)	690	1,100	690	240	U
75-09-2	Methylene Chloride	350	570	350	160	U
76-13-1	Trichlorotrifluoroethane	<b>150</b>	580	190	83	J
75-15-0	Carbon Disulfide	590	1,100	590	180	U
75-34-3	1,1-Dichloroethane	360	590	360	85	U
78-93-3	2-Butanone (MEK)	350	1,100	350	120	U
141-78-6	Ethyl Acetate	710	1,100	710	310	U
110-54-3	n-Hexane	<b>3,700</b>	570	350	120	
67-66-3	Chloroform	190	580	190	78	U
109-99-9	Tetrahydrofuran (THF)	190	1,100	190	73	U
107-06-2	1,2-Dichloroethane	190	570	190	65	U
71-43-2	Benzene	<b>1,000</b>	570	190	84	
56-23-5	Carbon Tetrachloride	190	560	190	81	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-004

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0020 Liter(s)

Test Notes:

Container ID: 1SS00146

Initial Pressure (psig): -4.93 Final Pressure (psig): 6.67

Container Dilution Factor: 2.19

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>93,000</b>	1,100	370	160	
75-27-4	Bromodichloromethane	190	570	190	84	U
79-01-6	Trichloroethene	<b>130</b>	560	190	79	J
123-91-1	1,4-Dioxane	190	570	190	69	U
142-82-5	n-Heptane	<b>610</b>	570	350	93	
108-10-1	4-Methyl-2-pentanone	190	1,100	190	80	U
108-88-3	Toluene	<b>1,200</b>	570	190	71	
591-78-6	2-Hexanone	190	1,100	190	72	U
124-48-1	Dibromochloromethane	190	570	190	77	U
106-93-4	1,2-Dibromoethane	190	570	190	68	U
127-18-4	Tetrachloroethene	<b>230</b>	570	190	76	J
100-41-4	Ethylbenzene	190	570	190	82	U
179601-23-1	m,p-Xylenes	<b>240</b>	1,100	370	150	J
75-25-2	Bromoform	350	580	350	120	U
100-42-5	Styrene	350	570	350	94	U
95-47-6	o-Xylene	<b>170</b>	580	190	84	J
108-67-8	1,3,5-Trimethylbenzene	190	580	190	84	U
95-63-6	1,2,4-Trimethylbenzene	190	570	190	81	U
120-82-1	1,2,4-Trichlorobenzene	350	1,100	350	140	U
91-20-3	Naphthalene	340	570	340	140	U
1330-20-7	Xylenes, Total	<b>410</b>	1,100	370	150	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-005

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SC00749

Initial Pressure (psig): -2.90 Final Pressure (psig): 5.53

Container Dilution Factor: 1.71

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3,600	5,900	3,600	1,500	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3,600	5,900	3,600	990	U
74-87-3	Chloromethane	3,600	5,900	3,600	980	U
75-01-4	Vinyl Chloride	1,900	6,000	1,900	650	U
106-99-0	1,3-Butadiene	3,600	5,900	3,600	1,000	U
75-00-3	Chloroethane	3,600	5,900	3,600	750	U
64-17-5	Ethanol	9,500	60,000	9,500	4,200	U
67-64-1	Acetone	31,000	59,000	31,000	14,000	U
75-69-4	Trichlorofluoromethane	3,600	5,800	3,600	920	U
67-63-0	2-Propanol (Isopropyl Alcohol)	7,200	11,000	7,200	2,500	U
75-09-2	Methylene Chloride	3,600	5,900	3,600	1,700	U
76-13-1	Trichlorotrifluoroethane	<b>1,300</b>	6,000	1,900	870	J
75-15-0	Carbon Disulfide	6,200	11,000	6,200	1,800	U
75-34-3	1,1-Dichloroethane	3,800	6,200	3,800	890	U
78-93-3	2-Butanone (MEK)	3,600	11,000	3,600	1,300	U
141-78-6	Ethyl Acetate	7,400	11,000	7,400	3,200	U
110-54-3	n-Hexane	<b>200,000</b>	5,900	3,600	1,300	
67-66-3	Chloroform	1,900	6,000	1,900	810	U
109-99-9	Tetrahydrofuran (THF)	1,900	11,000	1,900	760	U
107-06-2	1,2-Dichloroethane	1,900	5,900	1,900	670	U
71-43-2	Benzene	<b>160,000</b>	5,900	1,900	880	
56-23-5	Carbon Tetrachloride	1,900	5,800	1,900	840	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-005

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

Container ID: 1SC00749

Initial Pressure (psig): -2.90 Final Pressure (psig): 5.53

Container Dilution Factor: 1.71

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	600,000	11,000	3,900	1,700	
75-27-4	Bromodichloromethane	1,900	5,900	1,900	880	U
79-01-6	Trichloroethene	1,300	5,800	1,900	820	J
123-91-1	1,4-Dioxane	1,900	5,900	1,900	720	U
142-82-5	n-Heptane	150,000	5,900	3,600	970	
108-10-1	4-Methyl-2-pentanone	1,900	11,000	1,900	830	U
108-88-3	Toluene	40,000	5,900	1,900	740	
591-78-6	2-Hexanone	1,900	11,000	1,900	750	U
124-48-1	Dibromochloromethane	1,900	5,900	1,900	800	U
106-93-4	1,2-Dibromoethane	1,900	5,900	1,900	710	U
127-18-4	Tetrachloroethene	2,300	5,900	1,900	790	J
100-41-4	Ethylbenzene	1,800	5,900	1,900	860	J
179601-23-1	m,p-Xylenes	11,000	11,000	3,900	1,600	J
75-25-2	Bromoform	3,600	6,000	3,600	1,300	U
100-42-5	Styrene	3,600	5,900	3,600	980	U
95-47-6	o-Xylene	16,000	6,000	1,900	880	
108-67-8	1,3,5-Trimethylbenzene	2,400	6,000	1,900	880	J
95-63-6	1,2,4-Trimethylbenzene	1,900	5,900	1,900	840	U
120-82-1	1,2,4-Trichlorobenzene	3,600	11,000	3,600	1,500	U
91-20-3	Naphthalene	3,500	5,900	3,500	1,500	U
1330-20-7	Xylenes, Total	27,000	11,000	3,900	1,600	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00648

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.00040 Liter(s)

Initial Pressure (psig): -2.88 Final Pressure (psig): 6.77

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>1,300</b>	2,400	1,500	590	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	1,500	2,400	1,500	400	<b>U</b>
74-87-3	Chloromethane	1,500	2,400	1,500	390	<b>U</b>
75-01-4	Vinyl Chloride	770	2,400	770	260	<b>U</b>
106-99-0	1,3-Butadiene	1,500	2,400	1,500	400	<b>U</b>
75-00-3	Chloroethane	1,500	2,400	1,500	300	<b>U</b>
64-17-5	Ethanol	3,800	24,000	3,800	1,700	<b>U</b>
67-64-1	Acetone	12,000	24,000	12,000	5,500	<b>U</b>
75-69-4	Trichlorofluoromethane	1,500	2,300	1,500	370	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	2,900	4,600	2,900	1,000	<b>U</b>
75-09-2	Methylene Chloride	1,500	2,400	1,500	680	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>650</b>	2,400	770	350	<b>J</b>
75-15-0	Carbon Disulfide	2,500	4,600	2,500	730	<b>U</b>
75-34-3	1,1-Dichloroethane	1,500	2,500	1,500	350	<b>U</b>
78-93-3	2-Butanone (MEK)	1,500	4,600	1,500	500	<b>U</b>
141-78-6	Ethyl Acetate	3,000	4,600	3,000	1,300	<b>U</b>
110-54-3	n-Hexane	<b>170,000</b>	2,400	1,500	500	
67-66-3	Chloroform	770	2,400	770	320	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	770	4,600	770	300	<b>U</b>
107-06-2	1,2-Dichloroethane	770	2,400	770	270	<b>U</b>
71-43-2	Benzene	<b>43,000</b>	2,400	770	350	
56-23-5	Carbon Tetrachloride	770	2,300	770	340	<b>U</b>

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-006

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00040 Liter(s)

Test Notes:

Container ID: 1SC00648

Initial Pressure (psig): -2.88 Final Pressure (psig): 6.77

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	520,000	4,600	1,500	680	
75-27-4	Bromodichloromethane	770	2,400	770	350	U
79-01-6	Trichloroethene	560	2,300	770	330	J
123-91-1	1,4-Dioxane	770	2,400	770	290	U
142-82-5	n-Heptane	110,000	2,400	1,500	390	
108-10-1	4-Methyl-2-pentanone	770	4,600	770	330	U
108-88-3	Toluene	2,400	2,400	770	300	
591-78-6	2-Hexanone	770	4,600	770	300	U
124-48-1	Dibromochloromethane	770	2,400	770	320	U
106-93-4	1,2-Dibromoethane	770	2,400	770	280	U
127-18-4	Tetrachloroethene	910	2,400	770	310	J
100-41-4	Ethylbenzene	770	2,400	770	340	U
179601-23-1	m,p-Xylenes	3,800	4,600	1,500	640	J
75-25-2	Bromoform	1,500	2,400	1,500	500	U
100-42-5	Styrene	1,500	2,400	1,500	390	U
95-47-6	o-Xylene	8,800	2,400	770	350	
108-67-8	1,3,5-Trimethylbenzene	2,200	2,400	770	350	J
95-63-6	1,2,4-Trimethylbenzene	1,900	2,400	770	340	J
120-82-1	1,2,4-Trichlorobenzene	1,500	4,600	1,500	590	U
91-20-3	Naphthalene	1,400	2,400	1,400	590	U
1330-20-7	Xylenes, Total	13,000	4,600	1,500	640	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-007

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00070 Liter(s)

Test Notes:

Container ID: 1SS00169

Initial Pressure (psig): -3.48 Final Pressure (psig): 5.37

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	820	1,300	820	330	J
75-71-8	Dichlorodifluoromethane (CFC 12)	820	1,300	820	220	U
74-87-3	Chloromethane	820	1,300	820	220	U
75-01-4	Vinyl Chloride	430	1,400	430	150	U
106-99-0	1,3-Butadiene	820	1,300	820	230	U
75-00-3	Chloroethane	820	1,300	820	170	U
64-17-5	Ethanol	2,100	14,000	2,100	950	U
67-64-1	Acetone	6,900	13,000	6,900	3,100	U
75-69-4	Trichlorofluoromethane	820	1,300	820	210	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,600	2,600	1,600	560	U
75-09-2	Methylene Chloride	820	1,300	820	380	U
76-13-1	Trichlorotrifluoroethane	670	1,400	430	190	J
75-15-0	Carbon Disulfide	1,400	2,600	1,400	410	U
75-34-3	1,1-Dichloroethane	840	1,400	840	200	U
78-93-3	2-Butanone (MEK)	820	2,600	820	280	U
141-78-6	Ethyl Acetate	1,700	2,600	1,700	720	U
110-54-3	n-Hexane	46,000	1,300	820	280	
67-66-3	Chloroform	430	1,400	430	180	U
109-99-9	Tetrahydrofuran (THF)	430	2,600	430	170	U
107-06-2	1,2-Dichloroethane	430	1,300	430	150	U
71-43-2	Benzene	430	1,300	430	200	U
56-23-5	Carbon Tetrachloride	430	1,300	430	190	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV119-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-007

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00070 Liter(s)

Test Notes:

Container ID: 1SS00169

Initial Pressure (psig): -3.48 Final Pressure (psig): 5.37

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	270,000	2,600	870	380	
75-27-4	Bromodichloromethane	430	1,300	430	200	U
79-01-6	Trichloroethene	290	1,300	430	180	J
123-91-1	1,4-Dioxane	430	1,300	430	160	U
142-82-5	n-Heptane	57,000	1,300	820	220	
108-10-1	4-Methyl-2-pentanone	430	2,600	430	190	U
108-88-3	Toluene	300	1,300	430	170	J
591-78-6	2-Hexanone	430	2,600	430	170	U
124-48-1	Dibromochloromethane	430	1,300	430	180	U
106-93-4	1,2-Dibromoethane	430	1,300	430	160	U
127-18-4	Tetrachloroethene	510	1,300	430	180	J
100-41-4	Ethylbenzene	260	1,300	430	190	J
179601-23-1	m,p-Xylenes	5,400	2,600	870	360	
75-25-2	Bromoform	820	1,400	820	280	U
100-42-5	Styrene	820	1,300	820	220	U
95-47-6	o-Xylene	510	1,400	430	200	J
108-67-8	1,3,5-Trimethylbenzene	1,000	1,400	430	200	J
95-63-6	1,2,4-Trimethylbenzene	210	1,300	430	190	J
120-82-1	1,2,4-Trichlorobenzene	820	2,600	820	330	U
91-20-3	Naphthalene	790	1,300	790	330	U
1330-20-7	Xylenes, Total	5,900	2,600	870	360	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00007

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.28 Final Pressure (psig): 6.43

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.3	2.4	1.5	0.60	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	2.4	1.5	0.40	
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	0.79	2.5	0.79	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	24	25	3.8	1.7	J
67-64-1	Acetone	40	24	12	5.6	
75-69-4	Trichlorofluoromethane	1.3	2.4	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	J
75-09-2	Methylene Chloride	2.9	2.4	1.5	0.69	
76-13-1	Trichlorotrifluoroethane	0.54	2.5	0.79	0.35	J
75-15-0	Carbon Disulfide	2.5	4.6	2.5	0.74	U
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	8.7	4.6	1.5	0.51	
141-78-6	Ethyl Acetate	4.1	4.6	3.0	1.3	J
110-54-3	n-Hexane	0.56	2.4	1.5	0.51	J
67-66-3	Chloroform	260	2.5	0.79	0.33	
109-99-9	Tetrahydrofuran (THF)	0.79	4.6	0.79	0.31	U
107-06-2	1,2-Dichloroethane	0.79	2.4	0.79	0.27	U
71-43-2	Benzene	0.76	2.4	0.79	0.36	J
56-23-5	Carbon Tetrachloride	7.0	2.4	0.79	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-008

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00007

Initial Pressure (psig): -3.28 Final Pressure (psig): 6.43

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.6	1.6	0.69	U
75-27-4	Bromodichloromethane	<b>20</b>	2.4	0.79	0.36	
79-01-6	Trichloroethene	<b>0.86</b>	2.4	0.79	0.33	J
123-91-1	1,4-Dioxane	0.79	2.4	0.79	0.29	U
142-82-5	n-Heptane	<b>0.50</b>	2.4	1.5	0.39	J
108-10-1	4-Methyl-2-pentanone	0.79	4.6	0.79	0.34	U
108-88-3	Toluene	<b>2.1</b>	2.4	0.79	0.30	J
591-78-6	2-Hexanone	<b>1.1</b>	4.6	0.79	0.31	J
124-48-1	Dibromochloromethane	0.79	2.4	0.79	0.32	U
106-93-4	1,2-Dibromoethane	0.79	2.4	0.79	0.29	U
127-18-4	Tetrachloroethene	<b>2.7</b>	2.4	0.79	0.32	
100-41-4	Ethylbenzene	0.79	2.4	0.79	0.35	U
179601-23-1	m,p-Xylenes	<b>1.0</b>	4.6	1.6	0.65	J
75-25-2	Bromoform	1.5	2.5	1.5	0.51	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	0.79	2.5	0.79	0.36	U
108-67-8	1,3,5-Trimethylbenzene	0.79	2.5	0.79	0.36	U
95-63-6	1,2,4-Trimethylbenzene	0.79	2.4	0.79	0.34	U
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.60	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.60	U
1330-20-7	Xylenes, Total	<b>1.0</b>	4.6	1.6	0.65	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00030

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -4.25 Final Pressure (psig): 7.88

Container Dilution Factor: 2.16

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.9	2.8	1.7	0.70	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	2.8	1.7	0.47	J
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	U
75-01-4	Vinyl Chloride	0.92	2.9	0.92	0.31	U
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.48	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.36	U
64-17-5	Ethanol	7.8	29	4.5	2.0	J
67-64-1	Acetone	34	28	15	6.5	
75-69-4	Trichlorofluoromethane	1.2	2.8	1.7	0.44	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.5	5.4	3.4	1.2	J
75-09-2	Methylene Chloride	1.1	2.8	1.7	0.81	J
76-13-1	Trichlorotrifluoroethane	0.43	2.9	0.92	0.41	J
75-15-0	Carbon Disulfide	11	5.4	2.9	0.86	
75-34-3	1,1-Dichloroethane	1.8	2.9	1.8	0.42	U
78-93-3	2-Butanone (MEK)	8.3	5.4	1.7	0.59	
141-78-6	Ethyl Acetate	5.6	5.4	3.5	1.5	
110-54-3	n-Hexane	1.7	2.8	1.7	0.59	U
67-66-3	Chloroform	440	29	9.2	3.8	D
109-99-9	Tetrahydrofuran (THF)	33	5.4	0.92	0.36	
107-06-2	1,2-Dichloroethane	0.92	2.8	0.92	0.32	U
71-43-2	Benzene	0.59	2.8	0.92	0.42	J
56-23-5	Carbon Tetrachloride	20	2.8	0.92	0.40	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan/Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00030

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -4.25 Final Pressure (psig): 7.88

Container Dilution Factor: 2.16

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.8	5.4	1.8	0.81	U
75-27-4	Bromodichloromethane	<b>61</b>	2.8	0.92	0.42	
79-01-6	Trichloroethene	<b>7.2</b>	2.8	0.92	0.39	
123-91-1	1,4-Dioxane	0.92	2.8	0.92	0.34	U
142-82-5	n-Heptane	1.7	2.8	1.7	0.46	U
108-10-1	4-Methyl-2-pentanone	0.92	5.4	0.92	0.39	U
108-88-3	Toluene	<b>1.1</b>	2.8	0.92	0.35	J
591-78-6	2-Hexanone	<b>1.4</b>	5.4	0.92	0.36	J
124-48-1	Dibromochloromethane	<b>1.2</b>	2.8	0.92	0.38	J
106-93-4	1,2-Dibromoethane	0.92	2.8	0.92	0.33	U
127-18-4	Tetrachloroethene	<b>13</b>	2.8	0.92	0.37	
100-41-4	Ethylbenzene	0.92	2.8	0.92	0.41	U
179601-23-1	m,p-Xylenes	1.8	5.4	1.8	0.76	U
75-25-2	Bromoform	1.7	2.9	1.7	0.59	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	0.92	2.9	0.92	0.42	U
108-67-8	1,3,5-Trimethylbenzene	0.92	2.9	0.92	0.42	U
95-63-6	1,2,4-Trimethylbenzene	0.92	2.8	0.92	0.40	U
120-82-1	1,2,4-Trichlorobenzene	1.7	5.4	1.7	0.70	U
91-20-3	Naphthalene	1.7	2.8	1.7	0.70	U
1330-20-7	Xylenes, Total	1.8	5.4	1.8	0.76	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-010

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00248

Initial Pressure (psig): -4.21 Final Pressure (psig): 5.16

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.88</b>	2.5	1.5	0.61	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.91</b>	2.5	1.5	0.41	<b>J</b>
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	<b>U</b>
75-01-4	Vinyl Chloride	0.80	2.5	0.80	0.27	<b>U</b>
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	<b>U</b>
75-00-3	Chloroethane	1.5	2.5	1.5	0.31	<b>U</b>
64-17-5	Ethanol	<b>4.0</b>	25	3.9	1.7	<b>J</b>
67-64-1	Acetone	<b>19</b>	25	13	5.7	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>1.4</b>	2.4	1.5	0.38	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>1.1</b>	4.7	3.0	1.0	<b>J</b>
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	<b>U</b>
76-13-1	Trichlorotrifluoroethane	0.80	2.5	0.80	0.36	<b>U</b>
75-15-0	Carbon Disulfide	<b>4.5</b>	4.7	2.6	0.76	<b>J</b>
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>7.1</b>	4.7	1.5	0.52	
141-78-6	Ethyl Acetate	<b>26</b>	4.7	3.1	1.3	
110-54-3	n-Hexane	1.5	2.5	1.5	0.52	<b>U</b>
67-66-3	Chloroform	<b>30</b>	2.5	0.80	0.34	
109-99-9	Tetrahydrofuran (THF)	<b>150</b>	4.7	0.80	0.32	
107-06-2	1,2-Dichloroethane	0.80	2.5	0.80	0.28	<b>U</b>
71-43-2	Benzene	<b>0.61</b>	2.5	0.80	0.36	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>13</b>	2.4	0.80	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-010

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00248

Initial Pressure (psig): -4.21 Final Pressure (psig): 5.16

Container Dilution Factor: 1.89

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.6	4.7	1.6	0.71	U
75-27-4	Bromodichloromethane	<b>1.6</b>	2.5	0.80	0.36	J
79-01-6	Trichloroethene	0.80	2.4	0.80	0.34	U
123-91-1	1,4-Dioxane	<b>0.71</b>	2.5	0.80	0.30	J
142-82-5	n-Heptane	1.5	2.5	1.5	0.40	U
108-10-1	4-Methyl-2-pentanone	0.80	4.7	0.80	0.34	U
108-88-3	Toluene	<b>2.9</b>	2.5	0.80	0.31	
591-78-6	2-Hexanone	0.80	4.7	0.80	0.31	U
124-48-1	Dibromochloromethane	0.80	2.5	0.80	0.33	U
106-93-4	1,2-Dibromoethane	0.80	2.5	0.80	0.29	U
127-18-4	Tetrachloroethene	<b>2.6</b>	2.5	0.80	0.33	
100-41-4	Ethylbenzene	0.80	2.5	0.80	0.35	U
179601-23-1	m,p-Xylenes	<b>1.5</b>	4.7	1.6	0.66	J
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	<b>0.51</b>	2.5	1.5	0.41	J
95-47-6	o-Xylene	<b>0.73</b>	2.5	0.80	0.36	J
108-67-8	1,3,5-Trimethylbenzene	0.80	2.5	0.80	0.36	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.92</b>	2.5	0.80	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.61	U
1330-20-7	Xylenes, Total	<b>2.2</b>	4.7	1.6	0.66	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00986

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.91 Final Pressure (psig): 8.29

Container Dilution Factor: 2.13

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.8	1.7	0.69	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.53</b>	2.8	1.7	0.46	J
74-87-3	Chloromethane	<b>0.52</b>	2.8	1.7	0.46	J
75-01-4	Vinyl Chloride	0.91	2.8	0.91	0.30	U
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	U
64-17-5	Ethanol	4.4	28	4.4	2.0	U
67-64-1	Acetone	<b>7.6</b>	28	14	6.4	J
75-69-4	Trichlorofluoromethane	<b>1.2</b>	2.7	1.7	0.43	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.4	5.3	3.4	1.2	U
75-09-2	Methylene Chloride	1.7	2.8	1.7	0.80	U
76-13-1	Trichlorotrifluoroethane	0.91	2.8	0.91	0.40	U
75-15-0	Carbon Disulfide	<b>3.8</b>	5.3	2.9	0.85	J
75-34-3	1,1-Dichloroethane	1.8	2.9	1.8	0.42	U
78-93-3	2-Butanone (MEK)	<b>4.4</b>	5.3	1.7	0.59	J
141-78-6	Ethyl Acetate	<b>3.2</b>	5.3	3.5	1.5	J
110-54-3	n-Hexane	1.7	2.8	1.7	0.59	U
67-66-3	Chloroform	<b>1.4</b>	2.8	0.91	0.38	J
109-99-9	Tetrahydrofuran (THF)	<b>99</b>	5.3	0.91	0.36	
107-06-2	1,2-Dichloroethane	0.91	2.8	0.91	0.31	U
71-43-2	Benzene	<b>0.45</b>	2.8	0.91	0.41	J
56-23-5	Carbon Tetrachloride	<b>2.4</b>	2.7	0.91	0.39	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-011

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00986

Initial Pressure (psig): -3.91 Final Pressure (psig): 8.29

Container Dilution Factor: 2.13

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.8	5.3	1.8	0.80	U
75-27-4	Bromodichloromethane	0.91	2.8	0.91	0.41	U
79-01-6	Trichloroethene	0.91	2.7	0.91	0.38	U
123-91-1	1,4-Dioxane	<b>0.85</b>	2.8	0.91	0.34	J
142-82-5	n-Heptane	1.7	2.8	1.7	0.45	U
108-10-1	4-Methyl-2-pentanone	0.91	5.3	0.91	0.39	U
108-88-3	Toluene	<b>0.75</b>	2.8	0.91	0.35	J
591-78-6	2-Hexanone	0.91	5.3	0.91	0.35	U
124-48-1	Dibromochloromethane	0.91	2.8	0.91	0.37	U
106-93-4	1,2-Dibromoethane	0.91	2.8	0.91	0.33	U
127-18-4	Tetrachloroethene	0.91	2.8	0.91	0.37	U
100-41-4	Ethylbenzene	0.91	2.8	0.91	0.40	U
179601-23-1	m,p-Xylenes	1.8	5.3	1.8	0.75	U
75-25-2	Bromoform	1.7	2.8	1.7	0.59	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	0.91	2.8	0.91	0.41	U
108-67-8	1,3,5-Trimethylbenzene	0.91	2.8	0.91	0.41	U
95-63-6	1,2,4-Trimethylbenzene	0.91	2.8	0.91	0.39	U
120-82-1	1,2,4-Trichlorobenzene	1.7	5.3	1.7	0.69	U
91-20-3	Naphthalene	1.7	2.8	1.7	0.69	U
1330-20-7	Xylenes, Total	1.8	5.3	1.8	0.75	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01139

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.060 Liter(s)

Initial Pressure (psig): -3.17 Final Pressure (psig): 7.23

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	12	16	10	4.1	J
75-71-8	Dichlorodifluoromethane (CFC 12)	10	16	10	2.8	U
74-87-3	Chloromethane	4.9	16	10	2.7	J
75-01-4	Vinyl Chloride	5.4	17	5.4	1.8	U
106-99-0	1,3-Butadiene	10	16	10	2.8	U
75-00-3	Chloroethane	10	16	10	2.1	U
64-17-5	Ethanol	13	170	26	12	J
67-64-1	Acetone	100	160	86	38	J
75-69-4	Trichlorofluoromethane	10	16	10	2.6	U
67-63-0	2-Propanol (Isopropyl Alcohol)	20	32	20	7.0	U
75-09-2	Methylene Chloride	10	16	10	4.8	U
76-13-1	Trichlorotrifluoroethane	5.4	17	5.4	2.4	U
75-15-0	Carbon Disulfide	17	32	17	5.1	U
75-34-3	1,1-Dichloroethane	10	17	10	2.5	U
78-93-3	2-Butanone (MEK)	48	32	10	3.5	
141-78-6	Ethyl Acetate	52	32	21	8.9	
110-54-3	n-Hexane	5.4	16	10	3.5	J
67-66-3	Chloroform	5.4	17	5.4	2.2	U
109-99-9	Tetrahydrofuran (THF)	2.2	32	5.4	2.1	J
107-06-2	1,2-Dichloroethane	5.4	16	5.4	1.9	U
71-43-2	Benzene	7.3	16	5.4	2.4	J
56-23-5	Carbon Tetrachloride	5.4	16	5.4	2.3	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01139

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.060 Liter(s)

Initial Pressure (psig): -3.17 Final Pressure (psig): 7.23

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	37	32	11	4.8	
75-27-4	Bromodichloromethane	5.4	16	5.4	2.4	U
79-01-6	Trichloroethene	3.0	16	5.4	2.3	J
123-91-1	1,4-Dioxane	5.4	16	5.4	2.0	U
142-82-5	n-Heptane	10	16	10	2.7	U
108-10-1	4-Methyl-2-pentanone	5.2	32	5.4	2.3	J
108-88-3	Toluene	4.7	16	5.4	2.1	J
591-78-6	2-Hexanone	22	32	5.4	2.1	J
124-48-1	Dibromochloromethane	5.4	16	5.4	2.2	U
106-93-4	1,2-Dibromoethane	5.4	16	5.4	2.0	U
127-18-4	Tetrachloroethene	5.4	16	5.4	2.2	U
100-41-4	Ethylbenzene	5.4	16	5.4	2.4	U
179601-23-1	m,p-Xylenes	11	32	11	4.4	U
75-25-2	Bromoform	10	17	10	3.5	U
100-42-5	Styrene	10	16	10	2.7	U
95-47-6	o-Xylene	5.4	17	5.4	2.4	U
108-67-8	1,3,5-Trimethylbenzene	5.4	17	5.4	2.4	U
95-63-6	1,2,4-Trimethylbenzene	5.4	16	5.4	2.3	U
120-82-1	1,2,4-Trichlorobenzene	10	32	10	4.1	U
91-20-3	Naphthalene	9.8	16	9.8	4.1	U
1330-20-7	Xylenes, Total	11	32	11	4.4	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00697

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.0015 Liter(s)

Initial Pressure (psig): -2.91 Final Pressure (psig): 6.40

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	380	620	380	160	U
75-71-8	Dichlorodifluoromethane (CFC 12)	380	620	380	100	U
74-87-3	Chloromethane	380	620	380	100	U
75-01-4	Vinyl Chloride	200	630	200	68	U
106-99-0	1,3-Butadiene	380	620	380	110	U
75-00-3	Chloroethane	380	620	380	79	U
64-17-5	Ethanol	990	6,300	990	440	U
67-64-1	Acetone	3,200	6,200	3,200	1,400	U
75-69-4	Trichlorofluoromethane	380	610	380	97	U
67-63-0	2-Propanol (Isopropyl Alcohol)	750	1,200	750	260	U
75-09-2	Methylene Chloride	380	620	380	180	U
76-13-1	Trichlorotrifluoroethane	140	630	200	91	J
75-15-0	Carbon Disulfide	640	1,200	640	190	U
75-34-3	1,1-Dichloroethane	390	640	390	93	U
78-93-3	2-Butanone (MEK)	380	1,200	380	130	U
141-78-6	Ethyl Acetate	780	1,200	780	330	U
110-54-3	n-Hexane	1,200	620	380	130	
67-66-3	Chloroform	200	630	200	85	U
109-99-9	Tetrahydrofuran (THF)	200	1,200	200	80	U
107-06-2	1,2-Dichloroethane	200	620	200	70	U
71-43-2	Benzene	170	620	200	92	J
56-23-5	Carbon Tetrachloride	200	610	200	88	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV126-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-013

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: 1SC00697

Initial Pressure (psig): -2.91 Final Pressure (psig): 6.40

Container Dilution Factor: 1.79

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	4,500	1,200	410	180	
75-27-4	Bromodichloromethane	200	620	200	92	U
79-01-6	Trichloroethene	140	610	200	86	J
123-91-1	1,4-Dioxane	150	620	200	75	J
142-82-5	n-Heptane	380	620	380	100	U
108-10-1	4-Methyl-2-pentanone	200	1,200	200	87	U
108-88-3	Toluene	150	620	200	78	J
591-78-6	2-Hexanone	200	1,200	200	79	U
124-48-1	Dibromochloromethane	200	620	200	84	U
106-93-4	1,2-Dibromoethane	200	620	200	74	U
127-18-4	Tetrachloroethene	250	620	200	82	J
100-41-4	Ethylbenzene	200	620	200	90	U
179601-23-1	m,p-Xylenes	410	1,200	410	170	U
75-25-2	Bromoform	380	630	380	130	U
100-42-5	Styrene	380	620	380	100	U
95-47-6	o-Xylene	200	630	200	92	U
108-67-8	1,3,5-Trimethylbenzene	200	630	200	92	U
95-63-6	1,2,4-Trimethylbenzene	200	620	200	88	U
120-82-1	1,2,4-Trichlorobenzene	380	1,200	380	160	U
91-20-3	Naphthalene	370	620	370	160	U
1330-20-7	Xylenes, Total	410	1,200	410	170	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-014

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00733

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.26

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	11	2.4	1.5	0.60	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	2.4	1.5	0.40	
74-87-3	Chloromethane	0.83	2.4	1.5	0.40	J
75-01-4	Vinyl Chloride	0.79	2.5	0.79	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	8.2	25	3.8	1.7	J
67-64-1	Acetone	62	24	12	5.6	
75-69-4	Trichlorofluoromethane	1.1	2.4	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	26	4.6	2.9	1.0	
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	1.7	2.5	0.79	0.35	J
75-15-0	Carbon Disulfide	6.1	4.6	2.5	0.74	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	9.7	4.6	1.5	0.51	
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U
110-54-3	n-Hexane	1.6	2.4	1.5	0.51	J
67-66-3	Chloroform	0.68	2.5	0.79	0.33	J
109-99-9	Tetrahydrofuran (THF)	5.2	4.6	0.79	0.31	
107-06-2	1,2-Dichloroethane	0.79	2.4	0.79	0.27	U
71-43-2	Benzene	1.8	2.4	0.79	0.36	J
56-23-5	Carbon Tetrachloride	1.6	2.4	0.79	0.34	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-014

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00733

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.26

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>0.89</b>	4.6	1.6	0.69	<b>J</b>
75-27-4	Bromodichloromethane	0.79	2.4	0.79	0.36	<b>U</b>
79-01-6	Trichloroethene	<b>3.5</b>	2.4	0.79	0.33	
123-91-1	1,4-Dioxane	<b>0.82</b>	2.4	0.79	0.29	<b>J</b>
142-82-5	n-Heptane	<b>3.7</b>	2.4	1.5	0.39	
108-10-1	4-Methyl-2-pentanone	<b>0.57</b>	4.6	0.79	0.34	<b>J</b>
108-88-3	Toluene	<b>9.5</b>	2.4	0.79	0.30	
591-78-6	2-Hexanone	<b>1.7</b>	4.6	0.79	0.31	<b>J</b>
124-48-1	Dibromochloromethane	0.79	2.4	0.79	0.32	<b>U</b>
106-93-4	1,2-Dibromoethane	0.79	2.4	0.79	0.29	<b>U</b>
127-18-4	Tetrachloroethene	<b>1.6</b>	2.4	0.79	0.32	<b>J</b>
100-41-4	Ethylbenzene	<b>0.91</b>	2.4	0.79	0.35	<b>J</b>
179601-23-1	m,p-Xylenes	<b>4.7</b>	4.6	1.6	0.65	
75-25-2	Bromoform	1.5	2.5	1.5	0.51	<b>U</b>
100-42-5	Styrene	1.5	2.4	1.5	0.40	<b>U</b>
95-47-6	o-Xylene	<b>1.5</b>	2.5	0.79	0.36	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.69</b>	2.5	0.79	0.36	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>1.4</b>	2.4	0.79	0.34	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.60	<b>U</b>
91-20-3	Naphthalene	1.4	2.4	1.4	0.60	<b>U</b>
1330-20-7	Xylenes, Total	<b>6.2</b>	4.6	1.6	0.65	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-015

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00332

Initial Pressure (psig): -3.32 Final Pressure (psig): 7.11

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.2	2.5	1.5	0.62	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.5	2.5	1.5	0.42	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	J
75-01-4	Vinyl Chloride	0.82	2.5	0.82	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	6.7	25	4.0	1.8	J
67-64-1	Acetone	94	25	13	5.8	
75-69-4	Trichlorofluoromethane	1.1	2.4	1.5	0.39	J
67-63-0	2-Propanol (Isopropyl Alcohol)	5.4	4.8	3.0	1.1	
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	2.2	2.5	0.82	0.36	J
75-15-0	Carbon Disulfide	41	4.8	2.6	0.77	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	20	4.8	1.5	0.53	
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	1.6	2.5	1.5	0.53	J
67-66-3	Chloroform	0.97	2.5	0.82	0.34	J
109-99-9	Tetrahydrofuran (THF)	10	4.8	0.82	0.32	
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	1.8	2.5	0.82	0.37	J
56-23-5	Carbon Tetrachloride	2.4	2.4	0.82	0.36	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-015

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00332

Initial Pressure (psig): -3.32 Final Pressure (psig): 7.11

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.0	4.8	1.6	0.72	J
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	0.42	2.4	0.82	0.35	J
123-91-1	1,4-Dioxane	1.1	2.5	0.82	0.30	J
142-82-5	n-Heptane	3.4	2.5	1.5	0.41	
108-10-1	4-Methyl-2-pentanone	1.3	4.8	0.82	0.35	J
108-88-3	Toluene	8.1	2.5	0.82	0.31	
591-78-6	2-Hexanone	2.0	4.8	0.82	0.32	J
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	140	2.5	0.82	0.33	
100-41-4	Ethylbenzene	0.81	2.5	0.82	0.36	J
179601-23-1	m,p-Xylenes	4.2	4.8	1.6	0.67	J
75-25-2	Bromoform	1.5	2.5	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	1.4	2.5	0.82	0.37	J
108-67-8	1,3,5-Trimethylbenzene	0.56	2.5	0.82	0.37	J
95-63-6	1,2,4-Trimethylbenzene	1.3	2.5	0.82	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	5.6	4.8	1.6	0.67	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-016

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01270

Initial Pressure (psig): -4.12 Final Pressure (psig): 6.97

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.77	2.7	1.6	0.67	J
75-71-8	Dichlorodifluoromethane (CFC 12)	4.1	2.7	1.6	0.45	
74-87-3	Chloromethane	1.6	2.7	1.6	0.44	U
75-01-4	Vinyl Chloride	0.87	2.7	0.87	0.29	U
106-99-0	1,3-Butadiene	1.6	2.7	1.6	0.45	U
75-00-3	Chloroethane	1.6	2.7	1.6	0.34	U
64-17-5	Ethanol	5.7	27	4.3	1.9	J
67-64-1	Acetone	17	27	14	6.2	J
75-69-4	Trichlorofluoromethane	1.1	2.6	1.6	0.42	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	5.1	3.2	1.1	U
75-09-2	Methylene Chloride	1.6	2.7	1.6	0.77	U
76-13-1	Trichlorotrifluoroethane	4.1	2.7	0.87	0.39	
75-15-0	Carbon Disulfide	3.7	5.1	2.8	0.82	J
75-34-3	1,1-Dichloroethane	1.7	2.8	1.7	0.40	U
78-93-3	2-Butanone (MEK)	7.5	5.1	1.6	0.56	
141-78-6	Ethyl Acetate	3.3	5.1	3.3	1.4	J
110-54-3	n-Hexane	3.8	2.7	1.6	0.56	
67-66-3	Chloroform	1.2	2.7	0.87	0.36	J
109-99-9	Tetrahydrofuran (THF)	3.7	5.1	0.87	0.34	J
107-06-2	1,2-Dichloroethane	0.87	2.7	0.87	0.30	U
71-43-2	Benzene	7.1	2.7	0.87	0.39	
56-23-5	Carbon Tetrachloride	3.0	2.6	0.87	0.38	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-016

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01270

Initial Pressure (psig): -4.12 Final Pressure (psig): 6.97

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.9	5.1	1.7	0.77	J
75-27-4	Bromodichloromethane	0.87	2.7	0.87	0.39	U
79-01-6	Trichloroethene	1.7	2.6	0.87	0.37	J
123-91-1	1,4-Dioxane	0.87	2.7	0.87	0.32	U
142-82-5	n-Heptane	8.4	2.7	1.6	0.44	
108-10-1	4-Methyl-2-pentanone	0.87	5.1	0.87	0.37	U
108-88-3	Toluene	15	2.7	0.87	0.33	
591-78-6	2-Hexanone	0.87	5.1	0.87	0.34	U
124-48-1	Dibromochloromethane	0.87	2.7	0.87	0.36	U
106-93-4	1,2-Dibromoethane	0.87	2.7	0.87	0.32	U
127-18-4	Tetrachloroethene	1.7	2.7	0.87	0.35	J
100-41-4	Ethylbenzene	1.1	2.7	0.87	0.38	J
179601-23-1	m,p-Xylenes	6.2	5.1	1.7	0.72	
75-25-2	Bromoform	1.6	2.7	1.6	0.56	U
100-42-5	Styrene	1.6	2.7	1.6	0.44	U
95-47-6	o-Xylene	1.7	2.7	0.87	0.39	J
108-67-8	1,3,5-Trimethylbenzene	0.60	2.7	0.87	0.39	J
95-63-6	1,2,4-Trimethylbenzene	1.3	2.7	0.87	0.38	J
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.67	U
91-20-3	Naphthalene	1.6	2.7	1.6	0.67	U
1330-20-7	Xylenes, Total	7.9	5.1	1.7	0.72	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00612

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -5.18 Final Pressure (psig): 6.43

Container Dilution Factor: 2.22

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.8	2.9	1.8	0.72	J
75-71-8	Dichlorodifluoromethane (CFC 12)	6.1	2.9	1.8	0.48	
74-87-3	Chloromethane	1.8	2.9	1.8	0.48	U
75-01-4	Vinyl Chloride	0.94	2.9	0.94	0.32	U
106-99-0	1,3-Butadiene	1.8	2.9	1.8	0.49	U
75-00-3	Chloroethane	1.8	2.9	1.8	0.37	U
64-17-5	Ethanol	31	29	4.6	2.1	
67-64-1	Acetone	19	29	15	6.7	J
75-69-4	Trichlorofluoromethane	0.87	2.8	1.8	0.45	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.6	5.6	3.5	1.2	J
75-09-2	Methylene Chloride	1.8	2.9	1.8	0.83	U
76-13-1	Trichlorotrifluoroethane	4.5	2.9	0.94	0.42	
75-15-0	Carbon Disulfide	5.6	5.6	3.0	0.89	
75-34-3	1,1-Dichloroethane	1.8	3.0	1.8	0.43	U
78-93-3	2-Butanone (MEK)	8.6	5.6	1.8	0.61	
141-78-6	Ethyl Acetate	4.0	5.6	3.6	1.6	J
110-54-3	n-Hexane	1.3	2.9	1.8	0.61	J
67-66-3	Chloroform	0.64	2.9	0.94	0.39	J
109-99-9	Tetrahydrofuran (THF)	2.4	5.6	0.94	0.37	J
107-06-2	1,2-Dichloroethane	0.94	2.9	0.94	0.33	U
71-43-2	Benzene	1.3	2.9	0.94	0.43	J
56-23-5	Carbon Tetrachloride	3.4	2.8	0.94	0.41	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-017

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00612

Initial Pressure (psig): -5.18 Final Pressure (psig): 6.43

Container Dilution Factor: 2.22

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.9	5.6	1.9	0.83	U
75-27-4	Bromodichloromethane	0.94	2.9	0.94	0.43	U
79-01-6	Trichloroethene	<b>2.5</b>	2.8	0.94	0.40	J
123-91-1	1,4-Dioxane	0.94	2.9	0.94	0.35	U
142-82-5	n-Heptane	<b>2.6</b>	2.9	1.8	0.47	J
108-10-1	4-Methyl-2-pentanone	0.94	5.6	0.94	0.41	U
108-88-3	Toluene	<b>7.1</b>	2.9	0.94	0.36	J
591-78-6	2-Hexanone	<b>0.95</b>	5.6	0.94	0.37	J
124-48-1	Dibromochloromethane	0.94	2.9	0.94	0.39	U
106-93-4	1,2-Dibromoethane	0.94	2.9	0.94	0.34	U
127-18-4	Tetrachloroethene	<b>2.1</b>	2.9	0.94	0.38	J
100-41-4	Ethylbenzene	<b>0.66</b>	2.9	0.94	0.42	J
179601-23-1	m,p-Xylenes	<b>3.2</b>	5.6	1.9	0.78	J
75-25-2	Bromoform	1.8	2.9	1.8	0.61	U
100-42-5	Styrene	1.8	2.9	1.8	0.48	U
95-47-6	o-Xylene	<b>1.0</b>	2.9	0.94	0.43	J
108-67-8	1,3,5-Trimethylbenzene	0.94	2.9	0.94	0.43	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.84</b>	2.9	0.94	0.41	J
120-82-1	1,2,4-Trichlorobenzene	1.8	5.6	1.8	0.72	U
91-20-3	Naphthalene	1.7	2.9	1.7	0.72	U
1330-20-7	Xylenes, Total	<b>4.2</b>	5.6	1.9	0.78	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00790

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.46 Final Pressure (psig): 6.71

Container Dilution Factor: 2.09

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.3	2.7	1.7	0.68	J
75-71-8	Dichlorodifluoromethane (CFC 12)	19	2.7	1.7	0.45	
74-87-3	Chloromethane	1.7	2.7	1.7	0.45	U
75-01-4	Vinyl Chloride	0.89	2.8	0.89	0.30	U
106-99-0	1,3-Butadiene	1.7	2.7	1.7	0.46	U
75-00-3	Chloroethane	1.7	2.7	1.7	0.34	U
64-17-5	Ethanol	9.9	28	4.3	1.9	J
67-64-1	Acetone	15	27	14	6.3	J
75-69-4	Trichlorofluoromethane	1.9	2.7	1.7	0.42	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.3	5.2	3.3	1.1	U
75-09-2	Methylene Chloride	1.7	2.7	1.7	0.78	U
76-13-1	Trichlorotrifluoroethane	2.3	2.8	0.89	0.40	J
75-15-0	Carbon Disulfide	64	5.2	2.8	0.84	
75-34-3	1,1-Dichloroethane	1.7	2.8	1.7	0.41	U
78-93-3	2-Butanone (MEK)	2.9	5.2	1.7	0.57	J
141-78-6	Ethyl Acetate	42	5.2	3.4	1.5	
110-54-3	n-Hexane	1.2	2.7	1.7	0.57	J
67-66-3	Chloroform	0.89	2.8	0.89	0.37	U
109-99-9	Tetrahydrofuran (THF)	2.8	5.2	0.89	0.35	J
107-06-2	1,2-Dichloroethane	0.89	2.7	0.89	0.31	U
71-43-2	Benzene	1.8	2.7	0.89	0.40	J
56-23-5	Carbon Tetrachloride	1.5	2.7	0.89	0.39	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-018

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00790

Initial Pressure (psig): -4.46 Final Pressure (psig): 6.71

Container Dilution Factor: 2.09

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.8	5.2	1.8	0.78	U
75-27-4	Bromodichloromethane	0.89	2.7	0.89	0.40	U
79-01-6	Trichloroethene	5.4	2.7	0.89	0.38	J
123-91-1	1,4-Dioxane	2.2	2.7	0.89	0.33	J
142-82-5	n-Heptane	2.4	2.7	1.7	0.44	J
108-10-1	4-Methyl-2-pentanone	0.89	5.2	0.89	0.38	U
108-88-3	Toluene	7.1	2.7	0.89	0.34	J
591-78-6	2-Hexanone	0.50	5.2	0.89	0.34	J
124-48-1	Dibromochloromethane	0.89	2.7	0.89	0.37	U
106-93-4	1,2-Dibromoethane	0.89	2.7	0.89	0.32	U
127-18-4	Tetrachloroethene	1.6	2.7	0.89	0.36	J
100-41-4	Ethylbenzene	0.51	2.7	0.89	0.39	J
179601-23-1	m,p-Xylenes	2.6	5.2	1.8	0.73	J
75-25-2	Bromoform	1.7	2.8	1.7	0.57	U
100-42-5	Styrene	1.7	2.7	1.7	0.45	U
95-47-6	o-Xylene	0.85	2.8	0.89	0.40	J
108-67-8	1,3,5-Trimethylbenzene	0.89	2.8	0.89	0.40	U
95-63-6	1,2,4-Trimethylbenzene	0.80	2.7	0.89	0.39	J
120-82-1	1,2,4-Trichlorobenzene	1.7	5.2	1.7	0.68	U
91-20-3	Naphthalene	1.6	2.7	1.6	0.68	U
1330-20-7	Xylenes, Total	3.5	5.2	1.8	0.73	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01089

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.0090 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 9.26

Container Dilution Factor: 2.19

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	150	130	78	32	
75-71-8	Dichlorodifluoromethane (CFC 12)	78	130	78	21	U
74-87-3	Chloromethane	49	130	78	21	J
75-01-4	Vinyl Chloride	41	130	41	14	U
106-99-0	1,3-Butadiene	78	130	78	21	U
75-00-3	Chloroethane	78	130	78	16	U
64-17-5	Ethanol	200	1,300	200	90	U
67-64-1	Acetone	660	1,300	660	290	U
75-69-4	Trichlorofluoromethane	78	120	78	20	U
67-63-0	2-Propanol (Isopropyl Alcohol)	87	240	150	54	J
75-09-2	Methylene Chloride	78	130	78	37	U
76-13-1	Trichlorotrifluoroethane	27	130	41	18	J
75-15-0	Carbon Disulfide	220	240	130	39	J
75-34-3	1,1-Dichloroethane	80	130	80	19	U
78-93-3	2-Butanone (MEK)	89	240	78	27	J
141-78-6	Ethyl Acetate	160	240	160	68	U
110-54-3	n-Hexane	470	130	78	27	
67-66-3	Chloroform	41	130	41	17	U
109-99-9	Tetrahydrofuran (THF)	51	240	41	16	J
107-06-2	1,2-Dichloroethane	41	130	41	14	U
71-43-2	Benzene	2,100	130	41	19	
56-23-5	Carbon Tetrachloride	41	120	41	18	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV129-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-019

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0090 Liter(s)

Test Notes:

Container ID: 1SC01089

Initial Pressure (psig): -3.76 Final Pressure (psig): 9.26

Container Dilution Factor: 2.19

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	680	240	83	37	
75-27-4	Bromodichloromethane	41	130	41	19	U
79-01-6	Trichloroethene	41	120	41	18	J
123-91-1	1,4-Dioxane	33	130	41	15	J
142-82-5	n-Heptane	470	130	78	21	
108-10-1	4-Methyl-2-pentanone	41	240	41	18	U
108-88-3	Toluene	3,100	130	41	16	
591-78-6	2-Hexanone	41	240	41	16	U
124-48-1	Dibromochloromethane	41	130	41	17	U
106-93-4	1,2-Dibromoethane	20	130	41	15	J
127-18-4	Tetrachloroethene	45	130	41	17	J
100-41-4	Ethylbenzene	120	130	41	18	J
179601-23-1	m,p-Xylenes	350	240	83	34	
75-25-2	Bromoform	78	130	78	27	U
100-42-5	Styrene	78	130	78	21	U
95-47-6	o-Xylene	240	130	41	19	
108-67-8	1,3,5-Trimethylbenzene	150	130	41	19	
95-63-6	1,2,4-Trimethylbenzene	30	130	41	18	J
120-82-1	1,2,4-Trichlorobenzene	78	240	78	32	U
91-20-3	Naphthalene	75	130	75	32	U
1330-20-7	Xylenes, Total	600	240	83	34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01025

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.88 Final Pressure (psig): 6.76

Container Dilution Factor: 2.19

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.8	2.8	1.8	0.71	U
75-71-8	Dichlorodifluoromethane (CFC 12)	4.5	2.8	1.8	0.48	
74-87-3	Chloromethane	1.8	2.8	1.8	0.47	U
75-01-4	Vinyl Chloride	0.93	2.9	0.93	0.31	U
106-99-0	1,3-Butadiene	1.8	2.8	1.8	0.48	U
75-00-3	Chloroethane	1.8	2.8	1.8	0.36	U
64-17-5	Ethanol	4.8	29	4.5	2.0	J
67-64-1	Acetone	15	28	15	6.6	J
75-69-4	Trichlorofluoromethane	1.3	2.8	1.8	0.44	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.4	5.5	3.4	1.2	U
75-09-2	Methylene Chloride	1.8	2.8	1.8	0.82	U
76-13-1	Trichlorotrifluoroethane	4.9	2.9	0.93	0.42	
75-15-0	Carbon Disulfide	15	5.5	3.0	0.88	
75-34-3	1,1-Dichloroethane	1.8	3.0	1.8	0.43	U
78-93-3	2-Butanone (MEK)	2.1	5.5	1.8	0.60	J
141-78-6	Ethyl Acetate	11	5.5	3.6	1.5	
110-54-3	n-Hexane	1.8	2.8	1.8	0.60	U
67-66-3	Chloroform	1.5	2.9	0.93	0.39	J
109-99-9	Tetrahydrofuran (THF)	0.46	5.5	0.93	0.37	J
107-06-2	1,2-Dichloroethane	0.93	2.8	0.93	0.32	U
71-43-2	Benzene	0.65	2.8	0.93	0.42	J
56-23-5	Carbon Tetrachloride	1.3	2.8	0.93	0.41	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-020

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01025

Initial Pressure (psig): -4.88 Final Pressure (psig): 6.76

Container Dilution Factor: 2.19

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.9	5.5	1.9	0.82	U
75-27-4	Bromodichloromethane	0.93	2.8	0.93	0.42	U
79-01-6	Trichloroethene	4.4	2.8	0.93	0.39	J
123-91-1	1,4-Dioxane	0.54	2.8	0.93	0.34	J
142-82-5	n-Heptane	1.8	2.8	1.8	0.47	U
108-10-1	4-Methyl-2-pentanone	0.41	5.5	0.93	0.40	J
108-88-3	Toluene	2.6	2.8	0.93	0.36	J
591-78-6	2-Hexanone	0.82	5.5	0.93	0.36	J
124-48-1	Dibromochloromethane	0.93	2.8	0.93	0.38	U
106-93-4	1,2-Dibromoethane	0.93	2.8	0.93	0.34	U
127-18-4	Tetrachloroethene	2.7	2.8	0.93	0.38	J
100-41-4	Ethylbenzene	1.1	2.8	0.93	0.41	J
179601-23-1	m,p-Xylenes	2.3	5.5	1.9	0.77	J
75-25-2	Bromoform	1.8	2.9	1.8	0.60	U
100-42-5	Styrene	1.8	2.8	1.8	0.47	U
95-47-6	o-Xylene	0.62	2.9	0.93	0.42	J
108-67-8	1,3,5-Trimethylbenzene	0.93	2.9	0.93	0.42	U
95-63-6	1,2,4-Trimethylbenzene	0.59	2.8	0.93	0.41	J
120-82-1	1,2,4-Trichlorobenzene	1.8	5.5	1.8	0.71	U
91-20-3	Naphthalene	1.4	2.8	1.7	0.71	J
1330-20-7	Xylenes, Total	2.9	5.5	1.9	0.77	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070  
 ALS Sample ID: P201110-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/10/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070  
 ALS Sample ID: P201110-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/10/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/19 - 10/20/20

Analyst: Lusine Hakobyan

Date(s) Received: 10/26/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 11/10/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201110-MB	99	105	102	70-130	
Lab Control Sample	P201110-LCS	98	101	101	70-130	
Duplicate Lab Control Sample	P201110-DLCS	99	105	104	70-130	
SV118-450-604	P2006070-001	99	105	100	70-130	
SV118-450-604	P2006070-001DUP	100	106	99	70-130	
SV119-025-204	P2006070-002	99	104	104	70-130	
SV119-050-204	P2006070-003	99	104	105	70-130	
SV119-150-204	P2006070-004	101	100	105	70-130	
SV119-250-204	P2006070-005	101	100	103	70-130	
SV119-350-204	P2006070-006	101	98	102	70-130	
SV119-450-204	P2006070-007	102	97	101	70-130	
SV126-025-204	P2006070-008	98	105	105	70-130	
SV126-050-204	P2006070-009	99	104	105	70-130	
SV126-150-204	P2006070-010	100	102	105	70-130	
SV126-250-204	P2006070-011	100	101	106	70-130	
SV126-350-204	P2006070-012	103	99	106	70-130	
SV126-450-204	P2006070-013	102	101	104	70-130	
SV129-025-204	P2006070-014	99	101	107	70-130	
SV129-050-204	P2006070-015	99	100	107	70-130	
SV129-150-204	P2006070-016	98	100	106	70-130	
SV129-250-204	P2006070-017	100	100	107	70-130	
SV129-350-204	P2006070-018	99	100	105	70-130	
SV129-450-204	P2006070-019	101	105	103	70-130	
SV130-025-204	P2006070-020	100	101	106	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070  
 ALS Sample ID: P201110-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/10/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit		
115-07-1	Propene	210	202	201	96	96	57-136	0	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	187	185	89	88	59-128	1	25	
74-87-3	Chloromethane	206	151	149	73	72	59-132	1	25	
75-01-4	Vinyl Chloride	208	191	190	92	91	64-127	1	25	
106-99-0	1,3-Butadiene	210	175	179	83	85	66-134	2	25	
75-00-3	Chloroethane	204	186	188	91	92	63-127	1	25	
64-17-5	Ethanol	998	907	917	91	92	59-125	1	25	
67-64-1	Acetone	1,030	935	938	91	91	58-128	0	25	
75-69-4	Trichlorofluoromethane	204	188	192	92	94	62-126	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	350	348	86	85	52-125	1	25	
75-09-2	Methylene Chloride	208	189	188	91	90	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	214	198	199	93	93	66-126	0	25	
75-15-0	Carbon Disulfide	428	397	402	93	94	57-134	1	25	
75-34-3	1,1-Dichloroethane	212	193	194	91	92	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	406	408	99	99	67-130	0	25	
141-78-6	Ethyl Acetate	422	523	520	124	123	65-128	0.8	25	
110-54-3	n-Hexane	212	214	213	101	100	63-120	1	25	
67-66-3	Chloroform	214	194	195	91	91	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	400	374	377	94	94	64-123	0	25	
107-06-2	1,2-Dichloroethane	208	194	193	93	93	65-128	0	25	
71-43-2	Benzene	204	185	185	91	91	69-119	0	25	
56-23-5	Carbon Tetrachloride	210	191	191	91	91	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070  
 ALS Sample ID: P201110-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/10/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$				Limit	
110-82-7	Cyclohexane	416	399	396		<b>96</b>	<b>95</b>	70-117	1	25
75-27-4	Bromodichloromethane	210	203	202		<b>97</b>	<b>96</b>	72-128	1	25
79-01-6	Trichloroethene	206	190	189		<b>92</b>	<b>92</b>	71-123	0	25
123-91-1	1,4-Dioxane	208	197	197		<b>95</b>	<b>95</b>	71-122	0	25
142-82-5	n-Heptane	210	199	199		<b>95</b>	<b>95</b>	69-123	0	25
108-10-1	4-Methyl-2-pentanone	416	406	400		<b>98</b>	<b>96</b>	67-130	2	25
108-88-3	Toluene	206	196	202		<b>95</b>	<b>98</b>	66-119	3	25
591-78-6	2-Hexanone	404	412	417		<b>102</b>	<b>103</b>	62-128	1	25
124-48-1	Dibromochloromethane	210	224	226		<b>107</b>	<b>108</b>	70-130	0.9	25
106-93-4	1,2-Dibromoethane	208	210	211		<b>101</b>	<b>101</b>	74-122	0	25
127-18-4	Tetrachloroethene	206	202	203		<b>98</b>	<b>99</b>	66-124	1	25
100-41-4	Ethylbenzene	206	202	210		<b>98</b>	<b>102</b>	70-124	4	25
179601-23-1	m,p-Xylenes	412	409	428		<b>99</b>	<b>104</b>	61-134	5	25
75-25-2	Bromoform	208	213	222		<b>102</b>	<b>107</b>	66-139	5	25
100-42-5	Styrene	206	221	229		<b>107</b>	<b>111</b>	73-127	4	25
95-47-6	o-Xylene	206	208	214		<b>101</b>	<b>104</b>	67-125	3	25
108-67-8	1,3,5-Trimethylbenzene	206	207	222		<b>100</b>	<b>108</b>	67-130	8	25
95-63-6	1,2,4-Trimethylbenzene	204	221	230		<b>108</b>	<b>113</b>	66-132	5	25
120-82-1	1,2,4-Trichlorobenzene	388	447	457		<b>115</b>	<b>118</b>	55-142	3	25
91-20-3	Naphthalene	198	208	210		<b>105</b>	<b>106</b>	57-138	0.9	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-604

ALS Project ID: P2006070

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006070-001DUP

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/10/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.015 Liter(s)

Test Notes:

Container ID: 1SS00219

Initial Pressure (psig): -6.37

Final Pressure (psig): 6.37

Container Dilution Factor: 2.53

Compound	Sample Result µg/m <sup>3</sup>	Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
		Sample Result µg/m <sup>3</sup>	Sample Result µg/m <sup>3</sup>				
Propene	33	33	33	33	0	25	J
Dichlorodifluoromethane (CFC 12)	ND	ND	ND	-	-	25	
Chloromethane	72	75	73.5	73.5	4	25	J
Vinyl Chloride	12	14	13	13	15	25	J
1,3-Butadiene	ND	ND	-	-	-	25	
Chloroethane	ND	ND	-	-	-	25	
Ethanol	ND	ND	-	-	-	25	
Acetone	ND	ND	-	-	-	25	
Trichlorofluoromethane	ND	ND	-	-	-	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	-	-	-	25	
Methylene Chloride	ND	ND	-	-	-	25	
Trichlorotrifluoroethane	21	23	22	22	9	25	J
Carbon Disulfide	360	360	360	360	0	25	
1,1-Dichloroethane	ND	ND	-	-	-	25	
2-Butanone (MEK)	ND	ND	-	-	-	25	
Ethyl Acetate	ND	ND	-	-	-	25	
n-Hexane	940	940	940	940	0	25	
Chloroform	ND	ND	-	-	-	25	
Tetrahydrofuran (THF)	85	85	85	85	0	25	J
1,2-Dichloroethane	ND	ND	-	-	-	25	
Benzene	84	83	83.5	83.5	1	25	J
Carbon Tetrachloride	120	120	120	120	0	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV118-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006070

ALS Sample ID: P2006070-001DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00219

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/10/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -6.37

Final Pressure (psig): 6.37

Container Dilution Factor: 2.53

Compound	Sample Result µg/m <sup>3</sup>	Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
		Sample Result µg/m <sup>3</sup>	Sample Result µg/m <sup>3</sup>				
Cyclohexane	15,000	15,000	15,000	15000	0	25	
Bromodichloromethane	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	-	-	25	
n-Heptane	18	19	18.5	18.5	5	25	J
4-Methyl-2-pentanone	ND	ND	ND	-	-	25	
Toluene	510	500	505	505	2	25	
2-Hexanone	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	ND	-	-	25	
Ethylbenzene	19	18	18.5	18.5	5	25	J
m,p-Xylenes	34	33	33.5	33.5	3	25	J
Bromoform	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	-	-	25	
o-Xylene	28	27	27.5	27.5	4	25	J
1,3,5-Trimethylbenzene	14	14	14	14	0	25	J
1,2,4-Trimethylbenzene	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	-	-	25	
Xylenes, Total	62	60	61	61	3	25	J

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2006070  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 11102001.D  
Analyst: Lusine Hakobyan Date Analyzed: 11/10/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 00:32  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	175125	11.22	763617	13.34	157271	17.64
<b>Upper Limit</b>	245175	11.55	1069064	13.67	220179	17.97
<b>Lower Limit</b>	105075	10.89	458170	13.01	94363	17.31

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)			
Client Sample ID	Area	RT	Area	RT			
01	Method Blank	155817	11.19	691658	13.32	134569	17.64
02	Lab Control Sample	165041	11.22	721462	13.34	148810	17.64
03	Duplicate Lab Control Sample	171159	11.22	750970	13.34	148861	17.64
04	SV118-450-604	171813	11.20	759502	13.32	154689	17.64
05	SV118-450-604 (Lab Duplicate)	169278	11.20	757519	13.32	154368	17.64
06	SV119-025-204	157598	11.20	698910	13.32	138742	17.64
07	SV119-050-204	159366	11.20	701828	13.32	139715	17.64
08	SV126-025-204	160715	11.20	705326	13.32	139515	17.64
09	SV126-050-204	163100	11.20	717568	13.32	143184	17.64
10	SV126-150-204	158175	11.20	705779	13.32	143345	17.64
11	SV126-250-204	158302	11.20	693443	13.32	142977	17.64
12	SV129-025-204	160845	11.20	702985	13.32	146408	17.64
13	SV129-050-204	165184	11.20	718185	13.32	151147	17.64
14	SV129-150-204	164325	11.20	718382	13.32	151502	17.64
15	SV126-050-204 (Dilution)	171837	11.19	758168	13.32	161901	17.64
16	SV119-150-204	155639	11.20	690250	13.32	150966	17.64
17	SV119-250-204	158139	11.19	698299	13.32	156341	17.64
18	SV119-350-204	150786	11.20	659288	13.33	152592	17.64
19	SV119-450-204	155105	11.20	683253	13.32	158544	17.64
20	SV126-450-204	157534	11.20	700507	13.33	146391	17.64

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2006070  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 11102001.D  
Analyst: Lusine Hakobyan Date Analyzed: 11/10/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 00:32  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	175125	11.22	763617	13.34	157271	17.64
<b>Upper Limit</b>	245175	11.55	1069064	13.67	220179	17.97
<b>Lower Limit</b>	105075	10.89	458170	13.01	94363	17.31

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
21	SV129-450-204	157905	11.20	684473
22	SV126-350-204	171143	11.20	769112
23	SV129-250-204	168555	11.20	740514
24	SV129-350-204	163218	11.20	713535
25	SV130-025-204	158862	11.20	701920
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



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## LABORATORY REPORT

February 3, 2021

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Your report P2006072 has been amended for the samples submitted to our laboratory on October 26, 2020. The report files were corrected for an error related to the sample IDs. Samples "SV131-245-204" (P2006072-010) and "SC131-450-204" (P2006072-012) were mislabeled by the lab, and swapped at login. The report has been corrected to place the samples in the correct order and associate each canister's results with the correct sample ID. The change has been indicated by the "Revised Page" footer located at the bottom right corner of each page.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

By Hayden Akers at 5:07 pm, Feb 03, 2021

Hayden Akers  
Project Manager

---

RIGHT SOLUTIONS | RIGHT PARTNER



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 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2006072

### CASE NARRATIVE

The samples were received intact under chain of custody on October 26, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

#### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2006072-004, 007, 012	Ethanol
P2006072-011, 013	Propene
P2006072-011	Acetone

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2006072

Date Received: 10/26/2020  
 Time Received: 09:45

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
SV130-050-204	P2006072-001	Air	10/20/2020	11:52	1SS00934	-4.41	7.33	X
SV130-150-204	P2006072-002	Air	10/20/2020	11:55	1SS00879	-4.40	7.14	X
SV130-250-204	P2006072-003	Air	10/20/2020	11:59	1SS01145	-4.38	7.42	X
SV130-350-204	P2006072-004	Air	10/20/2020	12:01	1SC00304	-3.05	8.93	X
SV130-450-204	P2006072-005	Air	10/20/2020	12:09	1SC00553	-2.79	7.04	X
SV130-450-604	P2006072-006	Air	10/20/2020	12:09	1SC00428	-2.92	7.25	X
SV131-025-204	P2006072-007	Air	10/19/2020	11:20	1SS00063	-4.08	7.65	X
SV131-055-204	P2006072-008	Air	10/19/2020	11:23	1SS00884	-2.97	7.64	X
SV131-150-204	P2006072-009	Air	10/19/2020	11:26	1SC01146	0.07	7.85	X
SV131-245-204	P2006072-010	Air	10/19/2020	11:29	1SS00495	-4.55	7.65	X
SV131-350-204	P2006072-011	Air	10/19/2020	11:32	1SS00501	-3.81	8.70	X
SV131-450-204	P2006072-012	Air	10/19/2020	11:41	1SC00495	-2.96	7.60	X
SVE10-410-204	P2006072-013	Air	10/19/2020	10:57	1SC01028	-3.16	7.40	X
SVE10-410-604	P2006072-014	Air	10/19/2020	10:57	1SS00910	-3.12	7.25	X
SVE11-410-204	P2006072-015	Air	10/19/2020	14:11	1SS00187	-4.70	7.70	X
SVE11-410-604	P2006072-016	Air	10/19/2020	14:11	1SC01209	-3.23	7.99	X
SVE13-410-204	P2006072-017	Air	10/19/2020	13:22	1SC00412	-3.76	7.77	X
SV01-050-204	P2006072-018	Air	10/19/2020	08:52	1SS00888	-3.40	7.30	X
SV01-100-204	P2006072-019	Air	10/19/2020	08:56	1SC00582	-2.84	7.99	X
SV01-250-204	P2006072-020	Air	10/19/2020	09:01	1SS00967	-2.62	7.93	X

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March 2021



2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**Air - Chain of Custody Record & Analytical Service Request**

Requested Turnaround Time in Business Days  
 10 Day-Standard

COC #:

COC-SV204-05

ALS Project No. 12006072  
 ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Company Name & Address (Reporting Information)

EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

Project Manager / Project Chemist  
 Email Address for Result Reporting  
 Devon Jerichovic (505) 715-4248 / Pam Moss (303) 590-9143

Tara Lamond:  
 Amanda Smith:  
 Pam Moss:  
 tlamond@eaest.com  
 asmith@eaest.com  
 pmoss@eaest.com

Sampler (Print & Sign)  
*Henry Roschinsky*

Project Name: Kirtland AFB Bulk Fuels Facility  
 Project Number: 62735DM02  
 P.O. # / Billing Information: 17682

ALS Contact: Kate Kaneko  
 1 (805) 577-2089  
 Analysis Method

TO-15 Project Specific List  
 Comments  
 e.g. Actual Preservative or specific instructions

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume		
SV130-050-204		10/20/2020	1152	ISS00934	NA	-25.0	-3.0	1L	X	None
SV130-150-204		10/20/2020	1155	ISS00879	NA	-24.0	-4.0	1L	X	None
SV130-250-204		10/20/2020	1159	ISS01145	NA	-25.0	-4.0	1L	X	None
SV130-350-204		10/20/2020	1201	ISS00304	NA	-24.0	-1.0	1L	X	None
SV130-450-204		10/20/2020	1209	ISS00053	NA	-26.0	-2.0	1L	X	None
SV130-450-604		10/20/2020	1209	ISS00428	NA	-26.0	-2.0	1L	X	None
SV131-025-204		10/19/2020	1120	ISS00063	NA	-25.5	-3.0	1L	X	None
SV131-055-204		10/19/2020	1123	ISS00884	NA	-25.5	0.0	1L	X	None
SV131-150-204		10/19/2020	1126	ISS01146	NA	-23.0	-1.0	1L	X	None
SV131-245-204		10/19/2020	1129	ISS00495	NA	-26.0	-5.0	1L	X	None

FedEX Tracking Number: 1028 3402 6278 Associated with Trip blank: SVTB204-03

Shipping information: Box number 3 of 5

Report Tier Levels - please select

Tier I - Results (Default if not specified) \_\_\_\_\_ Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_ Tier IV (Data Validation Package) \_\_\_\_\_ X

Relinquished by: (Signature) *[Signature]* Date: 10/21/20 Time: 1300  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

EDD required: Yes \_\_\_\_\_  
 Type: ERPIMS / EQUIS \_\_\_\_\_

Chain of Custody Seal: (Circle)  
 INTACT \_\_\_\_\_ BROKEN \_\_\_\_\_ ABSENT \_\_\_\_\_  
 Project Requirements: QAPP  
 Cooler / Blank Temperature: NA °C



2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**Air - Chain of Custody Record & Analytical Service Request**

Requested Turnaround Time in Business Days  
 10 Day-Standard

COC #:

COC-SV204-06

ALS Project No. P2006072

Company Name & Address (Reporting Information)

EA Engineering, Science, and Technology, Inc. PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

Project Name

Kirtland AFB Bulk Fuels Facility

ALS Contact: Kate Kaneko  
 1 (805) 577-2089

Analysis Method

Project Manager / Project Chemist  
 Devon Jerichovic (505) 715-4248 / Pam Moss (303) 590-9143  
 Email Address for Result Reporting  
 Tara Lamond:  
 Amanda Smith:  
 Pam Moss:

tiamond@eaest.com  
 asmith@eaest.com  
 pmoss@eaest.com

P.O. # / Billing Information  
 17692

Sampler (Print & Sign)  
*Amy Rosebrough*

Client Sample ID

Laboratory ID Number

Date Collected

Time Collected

Canister ID (Bar code # - AC, SC, etc.)

Flow Controller ID (Bar code # - FC #)

Canister Start Pressure "Hg

Canister End Pressure "Hg/psig

Sample Volume

TO-15 Project Specific List

Comments  
 e.g. Actual Preservative or specific instructions

SV131-350-204		10/19/2020	1332	1SS00501	NA	-26.0	-2.0	1L	X	None
SV131-450-204		10/19/2020	1141	1SC00495	NA	-27.0	-1.5	1L	X	None
SVE10-410-204		10/19/2020	1057	1SC01028	NA	-27.0	-2.5	1L	X	None
SVE10-410-604		10/19/2020	1057	1SS00910	NA	-24.0	-0.5	1L	X	None
SVE11-410-204		10/19/2020	1411	1SS00187	NA	-25.0	-5.0	1L	X	None
SVE11-410-604		10/19/2020	1411	1SC01209	NA	-25.0	-1.5	1L	X	None
SVE13-410-204		10/19/2020	1322	1SC00412	NA	-26.0	-2.5	1L	X	None
SVE13-410-604		10/19/2020	0852	1SS00888	NA	-24.0	-1.5	1L	X	None
SV01-050-204		10/19/2020	0856	1SC00582	NA	-26.5	-2.5	1L	X	None
SV01-250-204		10/19/2020	0901	1SS00967	NA	-26.0	-2.5	1L	X	None

FedEx Tracking Number: 1028 3402 6278

Shipping information: Box number 3 of 5

Associated with Trip blank: SVTB204-03

Report Tier Levels - please select

Tier I - Results (Default if not specified) \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_\_\_\_\_  
 Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_  
 Tier IV (Data Validation Package) \_\_\_\_\_ X

EDD required: Yes  
 Type: \_\_\_\_\_ ERP/MS / EQUIS \_\_\_\_\_

Chain of Custody Seal: (Circle)  
 INTACT \_\_\_\_\_  
 BROKEN \_\_\_\_\_  
 ABSENT \_\_\_\_\_

Project Requirements: QAPP

Relinquished by: (Signature) <i>Amy Rosebrough</i>	Date: 10/21/20	Time: 1300	Received by: (Signature) <i>Amy Rosebrough</i>	Date: 10/21/20	Time: 0947	Cooler / Blank Temperature: NA °C
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**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2006072  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/26/20 Date opened: 10/26/20 by: MBERGKAMP

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | Yes                                 | No                       | N/A                                 |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? <u>On side of box</u> Sealing Lid?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2006072-001.01	1.0 L Source Silonite Canister					
P2006072-002.01	1.0 L Source Silonite Canister					
P2006072-003.01	1.0 L Source Silonite Canister					
P2006072-004.01	1.0 L Source Can					
P2006072-005.01	1.0 L Source Can					
P2006072-006.01	1.0 L Source Can					
P2006072-007.01	1.0 L Source Silonite Canister					
P2006072-008.01	1.0 L Source Silonite Canister					
P2006072-009.01	1.0 L Source Silonite Canister					
P2006072-010.01	1.0 L Source Silonite Canister					
P2006072-011.01	1.0 L Source Silonite Canister					
P2006072-012.01	1.0 L Source Can					
P2006072-013.01	1.0 L Source Can					
P2006072-014.01	1.0 L Source Silonite Canister					
P2006072-015.01	1.0 L Source Silonite Canister					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-001

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00934

Initial Pressure (psig): -4.41 Final Pressure (psig): 7.33

Container Dilution Factor: 2.14

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.0	1.6	1.0	0.40	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>0.79</b>	0.56	0.35	0.094	
74-87-3	Chloromethane	0.83	1.3	0.83	0.22	U
75-01-4	Vinyl Chloride	0.36	1.1	0.36	0.12	U
106-99-0	1,3-Butadiene	0.77	1.3	0.77	0.21	U
75-00-3	Chloroethane	0.65	1.1	0.65	0.13	U
64-17-5	Ethanol	2.4	15	2.4	1.1	U
67-64-1	Acetone	<b>8.2</b>	12	6.1	2.7	J
75-69-4	Trichlorofluoromethane	<b>0.18</b>	0.49	0.30	0.077	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.48	U
75-09-2	Methylene Chloride	0.49	0.80	0.49	0.23	U
76-13-1	Trichlorotrifluoroethane	<b>0.56</b>	0.37	0.12	0.053	
75-15-0	Carbon Disulfide	<b>0.53</b>	1.7	0.93	0.27	J
75-34-3	1,1-Dichloroethane	0.44	0.71	0.44	0.10	U
78-93-3	2-Butanone (MEK)	<b>0.93</b>	1.8	0.58	0.20	J
141-78-6	Ethyl Acetate	<b>1.7</b>	1.5	0.97	0.42	
110-54-3	n-Hexane	0.49	0.79	0.49	0.17	U
67-66-3	Chloroform	<b>0.24</b>	0.58	0.19	0.078	J
109-99-9	Tetrahydrofuran (THF)	<b>14</b>	1.8	0.31	0.12	
107-06-2	1,2-Dichloroethane	0.22	0.69	0.22	0.078	U
71-43-2	Benzene	0.28	0.87	0.28	0.13	U
56-23-5	Carbon Tetrachloride	<b>0.18</b>	0.43	0.14	0.063	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-001

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00934

Initial Pressure (psig): -4.41 Final Pressure (psig): 7.33

Container Dilution Factor: 2.14

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.53	1.6	0.53	0.23	U
75-27-4	Bromodichloromethane	0.14	0.42	0.14	0.062	U
79-01-6	Trichloroethene	<b>0.78</b>	0.51	0.17	0.072	
123-91-1	1,4-Dioxane	0.25	0.77	0.25	0.094	U
142-82-5	n-Heptane	0.42	0.68	0.42	0.11	U
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.095	U
108-88-3	Toluene	<b>0.21</b>	0.74	0.24	0.092	J
591-78-6	2-Hexanone	0.22	1.3	0.22	0.086	U
124-48-1	Dibromochloromethane	0.11	0.33	0.11	0.044	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	U
127-18-4	Tetrachloroethene	<b>0.34</b>	0.41	0.13	0.054	J
100-41-4	Ethylbenzene	0.21	0.64	0.21	0.092	U
179601-23-1	m,p-Xylenes	0.42	1.2	0.42	0.17	U
75-25-2	Bromoform	0.17	0.27	0.17	0.057	U
100-42-5	Styrene	0.40	0.65	0.40	0.11	U
95-47-6	o-Xylene	0.21	0.65	0.21	0.095	U
108-67-8	1,3,5-Trimethylbenzene	0.19	0.58	0.19	0.084	U
95-63-6	1,2,4-Trimethylbenzene	0.19	0.57	0.19	0.081	U
120-82-1	1,2,4-Trichlorobenzene	0.23	0.72	0.23	0.094	U
91-20-3	Naphthalene	0.32	0.53	0.32	0.13	U
1330-20-7	Xylenes, Total	0.42	1.2	0.42	0.17	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-002

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00879

Initial Pressure (psig): -4.40 Final Pressure (psig): 7.14

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.49	1.6	0.99	0.40	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.1	0.56	0.34	0.093	
74-87-3	Chloromethane	0.82	1.3	0.82	0.22	U
75-01-4	Vinyl Chloride	0.35	1.1	0.35	0.12	U
106-99-0	1,3-Butadiene	0.77	1.2	0.77	0.21	U
75-00-3	Chloroethane	0.64	1.0	0.64	0.13	U
64-17-5	Ethanol	1.5	15	2.3	1.0	J
67-64-1	Acetone	3.0	12	6.0	2.7	J
75-69-4	Trichlorofluoromethane	0.22	0.48	0.30	0.076	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.47	U
75-09-2	Methylene Chloride	0.49	0.79	0.49	0.23	U
76-13-1	Trichlorotrifluoroethane	0.92	0.37	0.12	0.053	
75-15-0	Carbon Disulfide	4.2	1.7	0.92	0.27	
75-34-3	1,1-Dichloroethane	0.43	0.71	0.43	0.10	U
78-93-3	2-Butanone (MEK)	0.49	1.8	0.58	0.20	J
141-78-6	Ethyl Acetate	2.0	1.5	0.96	0.41	
110-54-3	n-Hexane	0.48	0.78	0.48	0.17	U
67-66-3	Chloroform	0.18	0.58	0.18	0.077	U
109-99-9	Tetrahydrofuran (THF)	2.5	1.8	0.31	0.12	
107-06-2	1,2-Dichloroethane	0.22	0.68	0.22	0.077	U
71-43-2	Benzene	0.33	0.86	0.28	0.13	J
56-23-5	Carbon Tetrachloride	0.14	0.43	0.14	0.062	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-002

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00879

Initial Pressure (psig): -4.40 Final Pressure (psig): 7.14

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.52	1.5	0.52	0.23	U
75-27-4	Bromodichloromethane	0.13	0.41	0.13	0.061	U
79-01-6	Trichloroethene	<b>0.49</b>	0.50	0.17	0.071	J
123-91-1	1,4-Dioxane	0.25	0.77	0.25	0.093	U
142-82-5	n-Heptane	<b>0.18</b>	0.67	0.41	0.11	J
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.094	U
108-88-3	Toluene	<b>1.2</b>	0.73	0.24	0.091	U
591-78-6	2-Hexanone	0.22	1.3	0.22	0.085	U
124-48-1	Dibromochloromethane	0.11	0.32	0.11	0.044	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	U
127-18-4	Tetrachloroethene	<b>0.99</b>	0.41	0.13	0.054	U
100-41-4	Ethylbenzene	0.21	0.63	0.21	0.092	U
179601-23-1	m,p-Xylenes	<b>1.1</b>	1.2	0.42	0.17	J
75-25-2	Bromoform	0.16	0.27	0.16	0.056	U
100-42-5	Styrene	0.40	0.65	0.40	0.11	U
95-47-6	o-Xylene	<b>0.26</b>	0.65	0.21	0.094	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.090</b>	0.57	0.18	0.083	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.32</b>	0.56	0.18	0.080	J
120-82-1	1,2,4-Trichlorobenzene	0.23	0.71	0.23	0.093	U
91-20-3	Naphthalene	0.31	0.53	0.31	0.13	U
1330-20-7	Xylenes, Total	<b>1.3</b>	1.2	0.42	0.17	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-003

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01145

Initial Pressure (psig): -4.38 Final Pressure (psig): 7.42

Container Dilution Factor: 2.14

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.1	1.6	1.0	0.40	J
75-71-8	Dichlorodifluoromethane (CFC 12)	0.64	0.56	0.35	0.094	
74-87-3	Chloromethane	0.83	1.3	0.83	0.22	U
75-01-4	Vinyl Chloride	0.36	1.1	0.36	0.12	U
106-99-0	1,3-Butadiene	0.77	1.3	0.77	0.21	U
75-00-3	Chloroethane	0.65	1.1	0.65	0.13	U
64-17-5	Ethanol	4.2	15	2.4	1.1	J
67-64-1	Acetone	14	12	6.1	2.7	
75-69-4	Trichlorofluoromethane	0.19	0.49	0.30	0.077	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.48	J
75-09-2	Methylene Chloride	0.49	0.80	0.49	0.23	U
76-13-1	Trichlorotrifluoroethane	0.76	0.37	0.12	0.053	
75-15-0	Carbon Disulfide	3.5	1.7	0.93	0.27	
75-34-3	1,1-Dichloroethane	0.44	0.71	0.44	0.10	U
78-93-3	2-Butanone (MEK)	1.5	1.8	0.58	0.20	J
141-78-6	Ethyl Acetate	6.5	1.5	0.97	0.42	
110-54-3	n-Hexane	0.49	0.79	0.49	0.17	U
67-66-3	Chloroform	0.096	0.58	0.19	0.078	J
109-99-9	Tetrahydrofuran (THF)	1.6	1.8	0.31	0.12	J
107-06-2	1,2-Dichloroethane	0.22	0.69	0.22	0.078	U
71-43-2	Benzene	0.31	0.87	0.28	0.13	J
56-23-5	Carbon Tetrachloride	0.13	0.43	0.14	0.063	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-003

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01145

Initial Pressure (psig): -4.38 Final Pressure (psig): 7.42

Container Dilution Factor: 2.14

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.53	1.6	0.53	0.23	U
75-27-4	Bromodichloromethane	0.14	0.42	0.14	0.062	U
79-01-6	Trichloroethene	<b>2.6</b>	0.51	0.17	0.072	
123-91-1	1,4-Dioxane	0.25	0.77	0.25	0.094	U
142-82-5	n-Heptane	0.42	0.68	0.42	0.11	U
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.095	U
108-88-3	Toluene	<b>0.77</b>	0.74	0.24	0.092	
591-78-6	2-Hexanone	<b>0.27</b>	1.3	0.22	0.086	J
124-48-1	Dibromochloromethane	0.11	0.33	0.11	0.044	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	U
127-18-4	Tetrachloroethene	<b>1.1</b>	0.41	0.13	0.054	
100-41-4	Ethylbenzene	0.21	0.64	0.21	0.092	U
179601-23-1	m,p-Xylenes	<b>0.19</b>	1.2	0.42	0.17	J
75-25-2	Bromoform	0.17	0.27	0.17	0.057	U
100-42-5	Styrene	0.40	0.65	0.40	0.11	U
95-47-6	o-Xylene	0.21	0.65	0.21	0.095	U
108-67-8	1,3,5-Trimethylbenzene	0.19	0.58	0.19	0.084	U
95-63-6	1,2,4-Trimethylbenzene	0.19	0.57	0.19	0.081	U
120-82-1	1,2,4-Trichlorobenzene	<b>0.13</b>	0.72	0.23	0.094	J
91-20-3	Naphthalene	0.32	0.53	0.32	0.13	U
1330-20-7	Xylenes, Total	<b>0.19</b>	1.2	0.42	0.17	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-004

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00304

Initial Pressure (psig): -3.05 Final Pressure (psig): 8.93

Container Dilution Factor: 2.03

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.9	1.5	0.94	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.57	0.53	0.33	0.089	
74-87-3	Chloromethane	0.37	1.3	0.79	0.21	J
75-01-4	Vinyl Chloride	0.34	1.1	0.34	0.11	U
106-99-0	1,3-Butadiene	0.73	1.2	0.73	0.20	U
75-00-3	Chloroethane	0.62	1.0	0.62	0.13	U
64-17-5	Ethanol	9.1	14	2.2	1.0	J
67-64-1	Acetone	32	11	5.8	2.6	
75-69-4	Trichlorofluoromethane	0.20	0.46	0.29	0.073	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.7	2.1	1.3	0.45	J
75-09-2	Methylene Chloride	0.47	0.76	0.47	0.22	U
76-13-1	Trichlorotrifluoroethane	0.22	0.35	0.11	0.050	J
75-15-0	Carbon Disulfide	7.0	1.6	0.88	0.26	
75-34-3	1,1-Dichloroethane	0.41	0.68	0.41	0.098	U
78-93-3	2-Butanone (MEK)	3.3	1.7	0.55	0.19	
141-78-6	Ethyl Acetate	6.2	1.4	0.92	0.39	
110-54-3	n-Hexane	0.46	0.75	0.46	0.16	U
67-66-3	Chloroform	0.18	0.55	0.18	0.074	J
109-99-9	Tetrahydrofuran (THF)	3.4	1.7	0.29	0.12	
107-06-2	1,2-Dichloroethane	0.21	0.65	0.21	0.074	U
71-43-2	Benzene	0.38	0.83	0.27	0.12	J
56-23-5	Carbon Tetrachloride	0.16	0.41	0.14	0.060	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV130-350-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-004

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00304

Initial Pressure (psig): -3.05 Final Pressure (psig): 8.93

Container Dilution Factor: 2.03

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.50	1.5	0.50	0.22	U
75-27-4	Bromodichloromethane	0.13	0.39	0.13	0.058	U
79-01-6	Trichloroethene	1.3	0.48	0.16	0.068	
123-91-1	1,4-Dioxane	0.20	0.73	0.24	0.089	J
142-82-5	n-Heptane	0.40	0.64	0.40	0.11	U
108-10-1	4-Methyl-2-pentanone	0.12	1.2	0.21	0.090	J
108-88-3	Toluene	1.2	0.70	0.23	0.088	
591-78-6	2-Hexanone	0.25	1.2	0.21	0.082	J
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	U
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.041	U
127-18-4	Tetrachloroethene	1.0	0.39	0.13	0.052	
100-41-4	Ethylbenzene	0.089	0.61	0.20	0.088	J
179601-23-1	m,p-Xylenes	0.30	1.2	0.40	0.16	J
75-25-2	Bromoform	0.16	0.26	0.16	0.054	U
100-42-5	Styrene	0.38	0.62	0.38	0.10	U
95-47-6	o-Xylene	0.29	0.62	0.20	0.090	J
108-67-8	1,3,5-Trimethylbenzene	0.18	0.55	0.18	0.080	U
95-63-6	1,2,4-Trimethylbenzene	0.18	0.54	0.18	0.076	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.68	0.22	0.089	U
91-20-3	Naphthalene	0.30	0.50	0.30	0.13	U
1330-20-7	Xylenes, Total	0.59	1.2	0.40	0.16	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00553

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/8/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.79 Final Pressure (psig): 7.04

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.4	1.4	0.85	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.58	0.48	0.30	0.081	
74-87-3	Chloromethane	1.7	1.2	0.71	0.19	
75-01-4	Vinyl Chloride	0.97	0.95	0.30	0.10	
106-99-0	1,3-Butadiene	0.19	1.1	0.66	0.18	J
75-00-3	Chloroethane	0.83	0.90	0.56	0.11	J
64-17-5	Ethanol	11	13	2.0	0.90	J
67-64-1	Acetone	40	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	0.21	0.42	0.26	0.066	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.0	1.9	1.2	0.41	J
75-09-2	Methylene Chloride	0.41	0.69	0.42	0.20	J
76-13-1	Trichlorotrifluoroethane	0.15	0.32	0.10	0.045	J
75-15-0	Carbon Disulfide	35	1.5	0.79	0.24	
75-34-3	1,1-Dichloroethane	0.43	0.61	0.37	0.088	J
78-93-3	2-Butanone (MEK)	20	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	1.2	1.3	0.83	0.36	J
110-54-3	n-Hexane	2.9	0.68	0.42	0.14	
67-66-3	Chloroform	0.16	0.50	0.16	0.067	U
109-99-9	Tetrahydrofuran (THF)	18	1.6	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.38	0.59	0.19	0.067	J
71-43-2	Benzene	140	0.74	0.24	0.11	
56-23-5	Carbon Tetrachloride	0.12	0.37	0.12	0.054	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-005

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SC00553

Initial Pressure (psig): -2.79 Final Pressure (psig): 7.04

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.96</b>	1.3	0.45	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	<b>U</b>
79-01-6	Trichloroethene	<b>0.50</b>	0.43	0.14	0.061	
123-91-1	1,4-Dioxane	<b>0.10</b>	0.66	0.22	0.080	<b>J</b>
142-82-5	n-Heptane	<b>2.2</b>	0.58	0.36	0.095	
108-10-1	4-Methyl-2-pentanone	<b>2.2</b>	1.1	0.19	0.082	
108-88-3	Toluene	<b>220</b>	6.3	2.1	0.79	<b>D</b>
591-78-6	2-Hexanone	<b>0.57</b>	1.1	0.19	0.074	<b>J</b>
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.038	<b>U</b>
106-93-4	1,2-Dibromoethane	<b>0.12</b>	0.31	0.10	0.037	<b>J</b>
127-18-4	Tetrachloroethene	<b>0.24</b>	0.35	0.11	0.047	<b>J</b>
100-41-4	Ethylbenzene	<b>8.2</b>	0.55	0.18	0.079	
179601-23-1	m,p-Xylenes	<b>22</b>	1.1	0.36	0.15	
75-25-2	Bromoform	0.14	0.23	0.14	0.049	<b>U</b>
100-42-5	Styrene	0.34	0.56	0.34	0.092	<b>U</b>
95-47-6	o-Xylene	<b>5.4</b>	0.56	0.18	0.081	
108-67-8	1,3,5-Trimethylbenzene	<b>0.57</b>	0.49	0.16	0.072	
95-63-6	1,2,4-Trimethylbenzene	<b>0.90</b>	0.48	0.16	0.069	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.080	<b>U</b>
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	<b>U</b>
1330-20-7	Xylenes, Total	<b>27</b>	1.1	0.36	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00428

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/8/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.92 Final Pressure (psig): 7.25

Container Dilution Factor: 1.86

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.4	1.4	0.86	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.45	0.49	0.30	0.082	J
74-87-3	Chloromethane	2.7	1.2	0.72	0.19	
75-01-4	Vinyl Chloride	0.96	0.96	0.31	0.10	J
106-99-0	1,3-Butadiene	0.67	1.1	0.67	0.19	U
75-00-3	Chloroethane	0.78	0.92	0.56	0.12	J
64-17-5	Ethanol	2.0	13	2.0	0.91	U
67-64-1	Acetone	24	10	5.3	2.3	
75-69-4	Trichlorofluoromethane	0.17	0.42	0.26	0.067	J
67-63-0	2-Propanol (Isopropyl Alcohol)	0.61	1.9	1.2	0.42	J
75-09-2	Methylene Chloride	0.43	0.70	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	0.13	0.32	0.10	0.046	J
75-15-0	Carbon Disulfide	37	1.5	0.81	0.24	
75-34-3	1,1-Dichloroethane	0.42	0.62	0.38	0.090	J
78-93-3	2-Butanone (MEK)	16	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	1.1	1.3	0.84	0.36	J
110-54-3	n-Hexane	2.8	0.69	0.42	0.15	
67-66-3	Chloroform	0.16	0.50	0.16	0.068	U
109-99-9	Tetrahydrofuran (THF)	19	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.39	0.60	0.20	0.068	J
71-43-2	Benzene	140	0.76	0.25	0.11	
56-23-5	Carbon Tetrachloride	0.13	0.38	0.13	0.055	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00428

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/8/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.92 Final Pressure (psig): 7.25

Container Dilution Factor: 1.86

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.96</b>	1.4	0.46	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	<b>U</b>
79-01-6	Trichloroethene	<b>0.47</b>	0.44	0.15	0.062	
123-91-1	1,4-Dioxane	<b>0.37</b>	0.67	0.22	0.081	<b>J</b>
142-82-5	n-Heptane	<b>2.3</b>	0.59	0.36	0.096	
108-10-1	4-Methyl-2-pentanone	<b>2.1</b>	1.1	0.19	0.083	
108-88-3	Toluene	<b>230</b>	6.4	2.1	0.80	<b>D</b>
591-78-6	2-Hexanone	<b>0.52</b>	1.1	0.19	0.075	<b>J</b>
124-48-1	Dibromochloromethane	0.093	0.28	0.093	0.038	<b>U</b>
106-93-4	1,2-Dibromoethane	<b>0.13</b>	0.31	0.10	0.038	<b>J</b>
127-18-4	Tetrachloroethene	<b>0.095</b>	0.36	0.12	0.047	<b>J</b>
100-41-4	Ethylbenzene	<b>8.2</b>	0.56	0.18	0.080	
179601-23-1	m,p-Xylenes	<b>22</b>	1.1	0.36	0.15	
75-25-2	Bromoform	0.14	0.24	0.14	0.049	<b>U</b>
100-42-5	Styrene	0.35	0.57	0.35	0.094	<b>U</b>
95-47-6	o-Xylene	<b>5.6</b>	0.57	0.18	0.082	
108-67-8	1,3,5-Trimethylbenzene	<b>0.56</b>	0.50	0.16	0.073	
95-63-6	1,2,4-Trimethylbenzene	<b>0.87</b>	0.49	0.16	0.070	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.081	<b>U</b>
91-20-3	Naphthalene	0.28	0.46	0.28	0.12	<b>U</b>
1330-20-7	Xylenes, Total	<b>27</b>	1.1	0.36	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-007

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00063

Initial Pressure (psig): -4.08 Final Pressure (psig): 7.65

Container Dilution Factor: 2.10

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.98	1.6	0.98	0.40	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>24</b>	0.55	0.34	0.092	
74-87-3	Chloromethane	0.81	1.3	0.81	0.22	U
75-01-4	Vinyl Chloride	0.35	1.1	0.35	0.12	U
106-99-0	1,3-Butadiene	0.76	1.2	0.76	0.21	U
75-00-3	Chloroethane	0.64	1.0	0.64	0.13	U
64-17-5	Ethanol	<b>2.7</b>	15	2.3	1.0	J
67-64-1	Acetone	<b>3.3</b>	11	6.0	2.7	J
75-69-4	Trichlorofluoromethane	<b>2.5</b>	0.48	0.30	0.076	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.47	U
75-09-2	Methylene Chloride	0.48	0.79	0.48	0.23	U
76-13-1	Trichlorotrifluoroethane	<b>3.8</b>	0.36	0.12	0.052	
75-15-0	Carbon Disulfide	<b>1.0</b>	1.7	0.91	0.27	J
75-34-3	1,1-Dichloroethane	0.43	0.70	0.43	0.10	U
78-93-3	2-Butanone (MEK)	<b>0.58</b>	1.8	0.57	0.20	J
141-78-6	Ethyl Acetate	0.95	1.5	0.95	0.41	U
110-54-3	n-Hexane	<b>0.89</b>	0.77	0.48	0.16	
67-66-3	Chloroform	<b>0.69</b>	0.57	0.18	0.076	
109-99-9	Tetrahydrofuran (THF)	0.30	1.8	0.30	0.12	U
107-06-2	1,2-Dichloroethane	0.22	0.67	0.22	0.077	U
71-43-2	Benzene	<b>1.1</b>	0.85	0.28	0.13	
56-23-5	Carbon Tetrachloride	<b>1.5</b>	0.43	0.14	0.062	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-007

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00063

Initial Pressure (psig): -4.08 Final Pressure (psig): 7.65

Container Dilution Factor: 2.10

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.79	1.5	0.52	0.23	J
75-27-4	Bromodichloromethane	0.068	0.41	0.13	0.060	J
79-01-6	Trichloroethene	0.17	0.50	0.17	0.070	U
123-91-1	1,4-Dioxane	0.25	0.76	0.25	0.092	U
142-82-5	n-Heptane	2.2	0.67	0.41	0.11	
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.094	U
108-88-3	Toluene	7.9	0.72	0.24	0.091	
591-78-6	2-Hexanone	0.22	1.3	0.22	0.085	U
124-48-1	Dibromochloromethane	0.10	0.32	0.10	0.043	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.042	U
127-18-4	Tetrachloroethene	0.13	0.40	0.13	0.053	U
100-41-4	Ethylbenzene	0.83	0.63	0.21	0.091	
179601-23-1	m,p-Xylenes	4.4	1.2	0.41	0.17	
75-25-2	Bromoform	0.16	0.27	0.16	0.056	U
100-42-5	Styrene	0.39	0.64	0.39	0.11	U
95-47-6	o-Xylene	1.6	0.64	0.21	0.093	
108-67-8	1,3,5-Trimethylbenzene	0.64	0.57	0.18	0.082	
95-63-6	1,2,4-Trimethylbenzene	1.6	0.56	0.18	0.079	
120-82-1	1,2,4-Trichlorobenzene	0.23	0.71	0.23	0.092	U
91-20-3	Naphthalene	0.16	0.52	0.31	0.13	J
1330-20-7	Xylenes, Total	6.1	1.2	0.41	0.17	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-055-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-008

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00884

Initial Pressure (psig): -2.97 Final Pressure (psig): 7.64

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.88	1.4	0.88	0.36	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>36</b>	0.50	0.31	0.084	
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	0.32	0.99	0.32	0.11	U
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.58	0.94	0.58	0.12	U
64-17-5	Ethanol	<b>1.3</b>	13	2.1	0.93	J
67-64-1	Acetone	<b>2.5</b>	10	5.4	2.4	J
75-69-4	Trichlorofluoromethane	<b>3.6</b>	0.43	0.27	0.068	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.71	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	<b>5.2</b>	0.33	0.11	0.047	
75-15-0	Carbon Disulfide	<b>0.87</b>	1.5	0.82	0.24	J
75-34-3	1,1-Dichloroethane	0.39	0.63	0.39	0.092	U
78-93-3	2-Butanone (MEK)	<b>0.48</b>	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.86	1.3	0.86	0.37	U
110-54-3	n-Hexane	<b>0.68</b>	0.70	0.43	0.15	J
67-66-3	Chloroform	<b>0.41</b>	0.52	0.17	0.069	J
109-99-9	Tetrahydrofuran (THF)	<b>3.8</b>	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.20	0.61	0.20	0.069	U
71-43-2	Benzene	<b>0.63</b>	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	<b>2.2</b>	0.39	0.13	0.056	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-055-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-008

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00884

Initial Pressure (psig): -2.97 Final Pressure (psig): 7.64

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.49</b>	1.4	0.47	0.21	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	<b>U</b>
79-01-6	Trichloroethene	0.15	0.45	0.15	0.064	<b>U</b>
123-91-1	1,4-Dioxane	0.22	0.69	0.22	0.083	<b>U</b>
142-82-5	n-Heptane	<b>1.4</b>	0.60	0.37	0.099	
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.085	<b>U</b>
108-88-3	Toluene	<b>4.4</b>	0.66	0.21	0.082	
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	<b>U</b>
124-48-1	Dibromochloromethane	0.095	0.29	0.095	0.039	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.038	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.16</b>	0.36	0.12	0.048	<b>J</b>
100-41-4	Ethylbenzene	<b>0.37</b>	0.57	0.19	0.082	<b>J</b>
179601-23-1	m,p-Xylenes	<b>2.1</b>	1.1	0.37	0.15	
75-25-2	Bromoform	0.15	0.24	0.15	0.051	<b>U</b>
100-42-5	Styrene	0.36	0.58	0.36	0.096	<b>U</b>
95-47-6	o-Xylene	<b>0.71</b>	0.58	0.19	0.084	
108-67-8	1,3,5-Trimethylbenzene	<b>0.27</b>	0.51	0.16	0.074	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.64</b>	0.50	0.16	0.072	
120-82-1	1,2,4-Trichlorobenzene	0.20	0.64	0.20	0.083	<b>U</b>
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	<b>U</b>
1330-20-7	Xylenes, Total	<b>2.8</b>	1.1	0.37	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01146

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): 0.07 Final Pressure (psig): 7.85

Container Dilution Factor: 1.53

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.9	1.2	0.71	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	46	0.40	0.25	0.067	
74-87-3	Chloromethane	0.19	0.96	0.59	0.16	J
75-01-4	Vinyl Chloride	0.25	0.79	0.25	0.085	U
106-99-0	1,3-Butadiene	0.55	0.90	0.55	0.15	U
75-00-3	Chloroethane	0.46	0.75	0.46	0.096	U
64-17-5	Ethanol	90	11	1.7	0.75	
67-64-1	Acetone	27	8.4	4.3	1.9	
75-69-4	Trichlorofluoromethane	4.2	0.35	0.22	0.055	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.7	1.6	0.98	0.34	
75-09-2	Methylene Chloride	2.5	0.57	0.35	0.17	
76-13-1	Trichlorotrifluoroethane	2.9	0.26	0.085	0.038	
75-15-0	Carbon Disulfide	1.3	1.2	0.66	0.20	
75-34-3	1,1-Dichloroethane	0.31	0.51	0.31	0.074	U
78-93-3	2-Butanone (MEK)	5.3	1.3	0.42	0.14	
141-78-6	Ethyl Acetate	14	1.1	0.69	0.30	
110-54-3	n-Hexane	2.1	0.56	0.35	0.12	
67-66-3	Chloroform	0.23	0.42	0.13	0.056	J
109-99-9	Tetrahydrofuran (THF)	1.3	1.3	0.22	0.087	
107-06-2	1,2-Dichloroethane	0.57	0.49	0.16	0.056	
71-43-2	Benzene	0.97	0.62	0.20	0.092	
56-23-5	Carbon Tetrachloride	2.2	0.31	0.10	0.045	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-009

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01146

Initial Pressure (psig): 0.07 Final Pressure (psig): 7.85

Container Dilution Factor: 1.53

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1.1</b>	1.1	0.38	0.17	<b>J</b>
75-27-4	Bromodichloromethane	0.097	0.30	0.097	0.044	<b>U</b>
79-01-6	Trichloroethene	<b>0.14</b>	0.36	0.12	0.051	<b>J</b>
123-91-1	1,4-Dioxane	0.18	0.55	0.18	0.067	<b>U</b>
142-82-5	n-Heptane	<b>1.9</b>	0.49	0.30	0.079	
108-10-1	4-Methyl-2-pentanone	<b>0.41</b>	0.93	0.16	0.068	<b>J</b>
108-88-3	Toluene	<b>9.3</b>	0.53	0.17	0.066	
591-78-6	2-Hexanone	0.16	0.93	0.16	0.062	<b>U</b>
124-48-1	Dibromochloromethane	0.076	0.23	0.076	0.031	<b>U</b>
106-93-4	1,2-Dibromoethane	0.085	0.26	0.085	0.031	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.43</b>	0.29	0.096	0.039	
100-41-4	Ethylbenzene	<b>0.73</b>	0.46	0.15	0.066	
179601-23-1	m,p-Xylenes	<b>2.7</b>	0.88	0.30	0.12	
75-25-2	Bromoform	0.12	0.20	0.12	0.041	<b>U</b>
100-42-5	Styrene	<b>0.26</b>	0.47	0.29	0.077	<b>J</b>
95-47-6	o-Xylene	<b>0.97</b>	0.47	0.15	0.068	
108-67-8	1,3,5-Trimethylbenzene	<b>0.18</b>	0.41	0.13	0.060	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.49</b>	0.40	0.13	0.058	
120-82-1	1,2,4-Trichlorobenzene	0.16	0.52	0.16	0.067	<b>U</b>
91-20-3	Naphthalene	0.23	0.38	0.23	0.095	<b>U</b>
1330-20-7	Xylenes, Total	<b>3.6</b>	0.88	0.30	0.12	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-245-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00495

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -4.55 Final Pressure (psig): 7.65

Container Dilution Factor: 2.20

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.0	1.7	1.0	0.42	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>120</b>	5.8	3.6	0.97	D
74-87-3	Chloromethane	0.85	1.4	0.85	0.23	U
75-01-4	Vinyl Chloride	0.37	1.1	0.37	0.12	U
106-99-0	1,3-Butadiene	0.80	1.3	0.80	0.22	U
75-00-3	Chloroethane	0.67	1.1	0.67	0.14	U
64-17-5	Ethanol	<b>1.6</b>	15	2.4	1.1	J
67-64-1	Acetone	6.3	12	6.3	2.8	U
75-69-4	Trichlorofluoromethane	<b>11</b>	0.50	0.31	0.079	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.49	U
75-09-2	Methylene Chloride	0.51	0.82	0.51	0.24	U
76-13-1	Trichlorotrifluoroethane	<b>4.6</b>	0.38	0.12	0.055	
75-15-0	Carbon Disulfide	<b>3.1</b>	1.8	0.95	0.28	
75-34-3	1,1-Dichloroethane	0.45	0.73	0.45	0.11	U
78-93-3	2-Butanone (MEK)	<b>0.56</b>	1.9	0.60	0.21	J
141-78-6	Ethyl Acetate	<b>1.1</b>	1.5	0.99	0.43	J
110-54-3	n-Hexane	<b>0.71</b>	0.81	0.50	0.17	J
67-66-3	Chloroform	<b>1.4</b>	0.60	0.19	0.080	
109-99-9	Tetrahydrofuran (THF)	<b>27</b>	1.9	0.32	0.12	
107-06-2	1,2-Dichloroethane	0.23	0.71	0.23	0.080	U
71-43-2	Benzene	<b>0.71</b>	0.90	0.29	0.13	J
56-23-5	Carbon Tetrachloride	<b>7.8</b>	0.45	0.15	0.065	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-245-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-010

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Wida Ang

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SS00495

Initial Pressure (psig): -4.55 Final Pressure (psig): 7.65

Container Dilution Factor: 2.20

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.55</b>	1.6	0.54	0.24	<b>J</b>
75-27-4	Bromodichloromethane	0.14	0.43	0.14	0.063	<b>U</b>
79-01-6	Trichloroethene	<b>0.14</b>	0.52	0.17	0.074	<b>J</b>
123-91-1	1,4-Dioxane	0.26	0.79	0.26	0.096	<b>U</b>
142-82-5	n-Heptane	<b>1.4</b>	0.70	0.43	0.11	
108-10-1	4-Methyl-2-pentanone	0.23	1.3	0.23	0.098	<b>U</b>
108-88-3	Toluene	<b>3.6</b>	0.76	0.25	0.095	
591-78-6	2-Hexanone	0.23	1.3	0.23	0.089	<b>U</b>
124-48-1	Dibromochloromethane	0.11	0.34	0.11	0.045	<b>U</b>
106-93-4	1,2-Dibromoethane	0.12	0.37	0.12	0.044	<b>U</b>
127-18-4	Tetrachloroethene	0.14	0.42	0.14	0.056	<b>U</b>
100-41-4	Ethylbenzene	<b>0.28</b>	0.66	0.22	0.095	<b>J</b>
179601-23-1	m,p-Xylenes	<b>1.5</b>	1.3	0.43	0.18	
75-25-2	Bromoform	0.17	0.28	0.17	0.059	<b>U</b>
100-42-5	Styrene	0.41	0.67	0.41	0.11	<b>U</b>
95-47-6	o-Xylene	<b>0.51</b>	0.67	0.22	0.098	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.17</b>	0.59	0.19	0.086	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.40</b>	0.58	0.19	0.083	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.24	0.74	0.24	0.096	<b>U</b>
91-20-3	Naphthalene	0.33	0.55	0.33	0.14	<b>U</b>
1330-20-7	Xylenes, Total	<b>2.0</b>	1.3	0.43	0.18	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00501

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.40 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -3.81 Final Pressure (psig): 8.70

Container Dilution Factor: 2.15

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	19	1.6	1.0	0.41	
75-71-8	Dichlorodifluoromethane (CFC 12)	970	9.0	5.6	1.5	D
74-87-3	Chloromethane	0.83	1.4	0.83	0.22	U
75-01-4	Vinyl Chloride	0.36	1.1	0.36	0.12	U
106-99-0	1,3-Butadiene	0.78	1.3	0.78	0.21	U
75-00-3	Chloroethane	0.65	1.1	0.65	0.13	U
64-17-5	Ethanol	4.4	15	2.4	1.1	J
67-64-1	Acetone	6.4	12	6.1	2.7	J
75-69-4	Trichlorofluoromethane	130	7.8	4.9	1.2	D
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.48	U
75-09-2	Methylene Chloride	0.50	0.80	0.50	0.23	U
76-13-1	Trichlorotrifluoroethane	41	0.37	0.12	0.053	
75-15-0	Carbon Disulfide	2.2	1.7	0.93	0.28	
75-34-3	1,1-Dichloroethane	0.44	0.72	0.44	0.10	U
78-93-3	2-Butanone (MEK)	0.88	1.8	0.58	0.20	J
141-78-6	Ethyl Acetate	3.6	1.5	0.97	0.42	
110-54-3	n-Hexane	0.81	0.79	0.49	0.17	
67-66-3	Chloroform	0.24	0.58	0.19	0.078	J
109-99-9	Tetrahydrofuran (THF)	1.1	1.8	0.31	0.12	J
107-06-2	1,2-Dichloroethane	0.23	0.69	0.23	0.078	U
71-43-2	Benzene	0.59	0.88	0.29	0.13	J
56-23-5	Carbon Tetrachloride	1.7	0.44	0.15	0.063	

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-011

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Wida Ang

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.025 Liter(s)

Container ID: 1SS00501

Initial Pressure (psig): -3.81 Final Pressure (psig): 8.70

Container Dilution Factor: 2.15

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	39	1.6	0.53	0.23	
75-27-4	Bromodichloromethane	0.14	0.42	0.14	0.062	U
79-01-6	Trichloroethene	0.084	0.51	0.17	0.072	J
123-91-1	1,4-Dioxane	0.25	0.78	0.25	0.094	U
142-82-5	n-Heptane	1.0	0.68	0.42	0.11	
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.096	U
108-88-3	Toluene	2.8	0.74	0.24	0.093	
591-78-6	2-Hexanone	0.22	1.3	0.22	0.087	U
124-48-1	Dibromochloromethane	0.11	0.33	0.11	0.044	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	U
127-18-4	Tetrachloroethene	2.1	0.41	0.13	0.055	
100-41-4	Ethylbenzene	0.22	0.64	0.21	0.093	J
179601-23-1	m,p-Xylenes	1.1	1.2	0.42	0.17	J
75-25-2	Bromoform	0.17	0.28	0.17	0.057	U
100-42-5	Styrene	0.40	0.66	0.40	0.11	U
95-47-6	o-Xylene	0.43	0.66	0.21	0.095	J
108-67-8	1,3,5-Trimethylbenzene	0.12	0.58	0.19	0.084	J
95-63-6	1,2,4-Trimethylbenzene	0.27	0.57	0.19	0.081	J
120-82-1	1,2,4-Trichlorobenzene	0.23	0.72	0.23	0.094	U
91-20-3	Naphthalene	0.32	0.53	0.32	0.13	U
1330-20-7	Xylenes, Total	1.5	1.2	0.42	0.17	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00495

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.0015 Liter(s)

Initial Pressure (psig): -2.96 Final Pressure (psig): 7.60

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	240	380	240	96	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>1,300</b>	130	82	22	
74-87-3	Chloromethane	200	320	200	53	U
75-01-4	Vinyl Chloride	84	260	84	28	U
106-99-0	1,3-Butadiene	180	300	180	50	U
75-00-3	Chloroethane	150	250	150	32	U
64-17-5	Ethanol	<b>280</b>	3,600	560	250	J
67-64-1	Acetone	1,400	2,800	1,400	640	U
75-69-4	Trichlorofluoromethane	<b>180</b>	120	72	18	
67-63-0	2-Propanol (Isopropyl Alcohol)	320	520	320	110	U
75-09-2	Methylene Chloride	120	190	120	55	U
76-13-1	Trichlorotrifluoroethane	<b>68</b>	88	28	13	J
75-15-0	Carbon Disulfide	<b>100</b>	410	220	65	J
75-34-3	1,1-Dichloroethane	100	170	100	24	U
78-93-3	2-Butanone (MEK)	140	430	140	47	U
141-78-6	Ethyl Acetate	230	350	230	98	U
110-54-3	n-Hexane	<b>150</b>	190	120	40	J
67-66-3	Chloroform	44	140	44	18	U
109-99-9	Tetrahydrofuran (THF)	73	430	73	29	U
107-06-2	1,2-Dichloroethane	53	160	53	18	U
71-43-2	Benzene	<b>980</b>	210	67	31	
56-23-5	Carbon Tetrachloride	34	100	34	15	U

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-012

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Wida Ang

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: 1SC00495

Initial Pressure (psig): -2.96 Final Pressure (psig): 7.60

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	380	370	130	55	
75-27-4	Bromodichloromethane	32	98	32	15	U
79-01-6	Trichloroethene	30	120	40	17	J
123-91-1	1,4-Dioxane	60	180	60	22	J
142-82-5	n-Heptane	200	160	99	26	
108-10-1	4-Methyl-2-pentanone	53	310	53	23	U
108-88-3	Toluene	860	170	57	22	
591-78-6	2-Hexanone	53	310	53	20	U
124-48-1	Dibromochloromethane	25	77	25	10	U
106-93-4	1,2-Dibromoethane	28	86	28	10	U
127-18-4	Tetrachloroethene	49	97	32	13	J
100-41-4	Ethylbenzene	42	150	50	22	J
179601-23-1	m,p-Xylenes	110	290	99	41	J
75-25-2	Bromoform	39	65	39	13	U
100-42-5	Styrene	95	150	95	26	U
95-47-6	o-Xylene	48	150	50	22	J
108-67-8	1,3,5-Trimethylbenzene	27	140	44	20	J
95-63-6	1,2,4-Trimethylbenzene	44	130	44	19	U
120-82-1	1,2,4-Trichlorobenzene	26	170	55	22	J
91-20-3	Naphthalene	75	130	75	31	U
1330-20-7	Xylenes, Total	160	290	99	41	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE10-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan/Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01028

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.070 Liter(s)

0.035 Liter(s)

Initial Pressure (psig): -3.16 Final Pressure (psig): 7.40

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	8.1	8.3	5.1	2.1	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.4	2.9	1.8	0.48	J
74-87-3	Chloromethane	24	6.9	4.3	1.1	
75-01-4	Vinyl Chloride	1.2	5.7	1.8	0.61	J
106-99-0	1,3-Butadiene	4.0	6.4	4.0	1.1	U
75-00-3	Chloroethane	3.3	5.4	3.3	0.69	U
64-17-5	Ethanol	12	77	12	5.4	U
67-64-1	Acetone	31	60	31	14	U
75-69-4	Trichlorofluoromethane	0.52	2.5	1.6	0.40	J
67-63-0	2-Propanol (Isopropyl Alcohol)	7.0	11	7.0	2.5	U
75-09-2	Methylene Chloride	2.5	4.1	2.5	1.2	U
76-13-1	Trichlorotrifluoroethane	150	1.9	0.61	0.27	
75-15-0	Carbon Disulfide	9.8	8.8	4.8	1.4	
75-34-3	1,1-Dichloroethane	2.2	3.7	2.2	0.53	U
78-93-3	2-Butanone (MEK)	2.0	9.3	3.0	1.0	J
141-78-6	Ethyl Acetate	4.9	7.6	4.9	2.1	U
110-54-3	n-Hexane	44	4.0	2.5	0.86	
67-66-3	Chloroform	1.2	3.0	0.96	0.40	J
109-99-9	Tetrahydrofuran (THF)	14	9.3	1.6	0.62	
107-06-2	1,2-Dichloroethane	0.41	3.5	1.2	0.40	J
71-43-2	Benzene	200	4.5	1.5	0.66	
56-23-5	Carbon Tetrachloride	2.6	2.2	0.74	0.32	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE10-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-013

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan/Wida Ang

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.070 Liter(s)

Test Notes:

0.035 Liter(s)

Container ID: 1SC01028

Initial Pressure (psig): -3.16 Final Pressure (psig): 7.40

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	17	8.0	2.7	1.2	
75-27-4	Bromodichloromethane	0.70	2.1	0.70	0.32	U
79-01-6	Trichloroethene	5.8	2.6	0.87	0.37	
123-91-1	1,4-Dioxane	1.3	4.0	1.3	0.48	U
142-82-5	n-Heptane	16	3.5	2.1	0.57	
108-10-1	4-Methyl-2-pentanone	1.1	6.7	1.1	0.49	U
108-88-3	Toluene	750	7.6	2.5	0.95	D
591-78-6	2-Hexanone	1.1	6.7	1.1	0.44	U
124-48-1	Dibromochloromethane	0.55	1.7	0.55	0.23	U
106-93-4	1,2-Dibromoethane	0.61	1.9	0.61	0.22	U
127-18-4	Tetrachloroethene	1.7	2.1	0.69	0.28	J
100-41-4	Ethylbenzene	13	3.3	1.1	0.47	
179601-23-1	m,p-Xylenes	48	6.3	2.1	0.88	
75-25-2	Bromoform	0.85	1.4	0.85	0.29	U
100-42-5	Styrene	2.1	3.4	2.1	0.55	U
95-47-6	o-Xylene	12	3.3	1.1	0.49	
108-67-8	1,3,5-Trimethylbenzene	1.1	3.0	0.95	0.43	J
95-63-6	1,2,4-Trimethylbenzene	1.3	2.9	0.95	0.41	J
120-82-1	1,2,4-Trichlorobenzene	1.2	3.7	1.2	0.48	U
91-20-3	Naphthalene	1.6	2.7	1.6	0.68	U
1330-20-7	Xylenes, Total	60	6.3	2.1	0.88	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE10-410-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan/Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00910

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.080 Liter(s)

0.020 Liter(s)

Initial Pressure (psig): -3.12 Final Pressure (psig): 7.25

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	8.4	7.2	4.4	1.8	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.4	2.5	1.5	0.42	J
74-87-3	Chloromethane	22	6.0	3.7	0.99	
75-01-4	Vinyl Chloride	1.3	4.9	1.6	0.53	J
106-99-0	1,3-Butadiene	3.4	5.6	3.4	0.95	U
75-00-3	Chloroethane	2.9	4.7	2.9	0.59	U
64-17-5	Ethanol	10	67	10	4.7	U
67-64-1	Acetone	27	52	27	12	U
75-69-4	Trichlorofluoromethane	0.54	2.2	1.4	0.34	J
67-63-0	2-Propanol (Isopropyl Alcohol)	6.1	9.7	6.1	2.1	U
75-09-2	Methylene Chloride	2.2	3.6	2.2	1.0	U
76-13-1	Trichlorotrifluoroethane	150	1.6	0.53	0.24	
75-15-0	Carbon Disulfide	10	7.6	4.1	1.2	
75-34-3	1,1-Dichloroethane	1.9	3.2	1.9	0.46	U
78-93-3	2-Butanone (MEK)	1.4	8.1	2.6	0.89	J
141-78-6	Ethyl Acetate	4.3	6.6	4.3	1.8	U
110-54-3	n-Hexane	45	3.5	2.2	0.74	
67-66-3	Chloroform	1.2	2.6	0.83	0.35	J
109-99-9	Tetrahydrofuran (THF)	16	8.1	1.4	0.54	
107-06-2	1,2-Dichloroethane	0.42	3.1	1.0	0.35	J
71-43-2	Benzene	190	3.9	1.3	0.57	
56-23-5	Carbon Tetrachloride	2.5	1.9	0.64	0.28	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE10-410-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-014

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan/Wida Ang

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.080 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: 1SS00910

Initial Pressure (psig): -3.12 Final Pressure (psig): 7.25

Container Dilution Factor: 1.90

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	17	6.9	2.3	1.0	
75-27-4	Bromodichloromethane	0.60	1.8	0.60	0.27	U
79-01-6	Trichloroethene	5.0	2.3	0.75	0.32	
123-91-1	1,4-Dioxane	1.1	3.4	1.1	0.42	U
142-82-5	n-Heptane	16	3.0	1.9	0.49	
108-10-1	4-Methyl-2-pentanone	0.99	5.8	0.99	0.42	U
108-88-3	Toluene	730	13	4.3	1.6	D
591-78-6	2-Hexanone	0.99	5.8	0.99	0.38	U
124-48-1	Dibromochloromethane	0.47	1.5	0.47	0.20	U
106-93-4	1,2-Dibromoethane	0.53	1.6	0.53	0.19	U
127-18-4	Tetrachloroethene	1.6	1.8	0.60	0.24	J
100-41-4	Ethylbenzene	11	2.8	0.93	0.41	
179601-23-1	m,p-Xylenes	42	5.5	1.9	0.77	
75-25-2	Bromoform	0.74	1.2	0.74	0.25	U
100-42-5	Styrene	1.8	2.9	1.8	0.48	U
95-47-6	o-Xylene	11	2.9	0.93	0.42	
108-67-8	1,3,5-Trimethylbenzene	0.83	2.6	0.82	0.37	J
95-63-6	1,2,4-Trimethylbenzene	1.3	2.5	0.82	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.0	3.2	1.0	0.42	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	53	5.5	1.9	0.77	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00187

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -4.70 Final Pressure (psig): 7.70

Container Dilution Factor: 2.24

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	53	17	10	4.2	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.6	5.9	3.6	0.99	U
74-87-3	Chloromethane	6.1	14	8.7	2.3	J
75-01-4	Vinyl Chloride	3.7	12	3.7	1.2	U
106-99-0	1,3-Butadiene	8.1	13	8.1	2.2	U
75-00-3	Chloroethane	6.8	11	6.8	1.4	U
64-17-5	Ethanol	25	160	25	11	U
67-64-1	Acetone	64	120	64	28	U
75-69-4	Trichlorofluoromethane	3.2	5.1	3.2	0.81	U
67-63-0	2-Propanol (Isopropyl Alcohol)	14	23	14	5.0	U
75-09-2	Methylene Chloride	5.2	8.4	5.2	2.4	U
76-13-1	Trichlorotrifluoroethane	1.6	3.9	1.2	0.56	J
75-15-0	Carbon Disulfide	6.4	18	9.7	2.9	J
75-34-3	1,1-Dichloroethane	4.6	7.5	4.6	1.1	U
78-93-3	2-Butanone (MEK)	6.1	19	6.1	2.1	U
141-78-6	Ethyl Acetate	10	16	10	4.4	U
110-54-3	n-Hexane	440	8.3	5.1	1.7	
67-66-3	Chloroform	1.5	6.1	2.0	0.81	J
109-99-9	Tetrahydrofuran (THF)	5.4	19	3.2	1.3	J
107-06-2	1,2-Dichloroethane	2.4	7.2	2.4	0.82	U
71-43-2	Benzene	1,100	9.1	3.0	1.4	
56-23-5	Carbon Tetrachloride	0.94	4.5	1.5	0.66	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00187

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -4.70 Final Pressure (psig): 7.70

Container Dilution Factor: 2.24

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>2,800</b>	16	5.5	2.4	
75-27-4	Bromodichloromethane	1.4	4.3	1.4	0.64	U
79-01-6	Trichloroethene	1.8	5.3	1.8	0.75	U
123-91-1	1,4-Dioxane	2.6	8.1	2.6	0.98	U
142-82-5	n-Heptane	<b>350</b>	7.1	4.4	1.2	
108-10-1	4-Methyl-2-pentanone	2.3	14	2.3	1.0	U
108-88-3	Toluene	<b>770</b>	7.7	2.5	0.97	
591-78-6	2-Hexanone	2.3	14	2.3	0.90	U
124-48-1	Dibromochloromethane	1.1	3.4	1.1	0.46	U
106-93-4	1,2-Dibromoethane	1.2	3.8	1.2	0.45	U
127-18-4	Tetrachloroethene	<b>0.57</b>	4.3	1.4	0.57	J
100-41-4	Ethylbenzene	<b>30</b>	6.7	2.2	0.97	
179601-23-1	m,p-Xylenes	<b>480</b>	13	4.4	1.8	
75-25-2	Bromoform	1.7	2.9	1.7	0.60	U
100-42-5	Styrene	4.2	6.8	4.2	1.1	U
95-47-6	o-Xylene	<b>170</b>	6.8	2.2	0.99	
108-67-8	1,3,5-Trimethylbenzene	<b>43</b>	6.0	1.9	0.88	
95-63-6	1,2,4-Trimethylbenzene	<b>40</b>	5.9	1.9	0.84	
120-82-1	1,2,4-Trichlorobenzene	2.4	7.5	2.4	0.98	U
91-20-3	Naphthalene	3.3	5.6	3.3	1.4	U
1330-20-7	Xylenes, Total	<b>650</b>	13	4.4	1.8	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-016

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.015 Liter(s)

Test Notes:

Container ID: 1SC01209

Initial Pressure (psig): -3.23 Final Pressure (psig): 7.99

Container Dilution Factor: 1.98

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	66	40	25	10	
75-71-8	Dichlorodifluoromethane (CFC 12)	8.5	14	8.5	2.3	U
74-87-3	Chloromethane	7.9	33	20	5.5	J
75-01-4	Vinyl Chloride	8.8	27	8.8	2.9	U
106-99-0	1,3-Butadiene	19	31	19	5.3	U
75-00-3	Chloroethane	16	26	16	3.3	U
64-17-5	Ethanol	58	370	58	26	U
67-64-1	Acetone	150	290	150	67	U
75-69-4	Trichlorofluoromethane	7.5	12	7.5	1.9	U
67-63-0	2-Propanol (Isopropyl Alcohol)	34	54	34	12	U
75-09-2	Methylene Chloride	12	20	12	5.7	U
76-13-1	Trichlorotrifluoroethane	1.8	9.1	2.9	1.3	J
75-15-0	Carbon Disulfide	23	42	23	6.8	U
75-34-3	1,1-Dichloroethane	11	18	11	2.5	U
78-93-3	2-Butanone (MEK)	14	45	14	4.9	U
141-78-6	Ethyl Acetate	24	37	24	10	U
110-54-3	n-Hexane	530	19	12	4.1	
67-66-3	Chloroform	4.6	14	4.6	1.9	U
109-99-9	Tetrahydrofuran (THF)	6.1	45	7.6	3.0	J
107-06-2	1,2-Dichloroethane	5.5	17	5.5	1.9	U
71-43-2	Benzene	1,200	21	7.0	3.2	
56-23-5	Carbon Tetrachloride	3.6	11	3.6	1.6	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01209

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.015 Liter(s)

Initial Pressure (psig): -3.23 Final Pressure (psig): 7.99

Container Dilution Factor: 1.98

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>3,200</b>	38	13	5.8	
75-27-4	Bromodichloromethane	3.4	10	3.4	1.5	U
79-01-6	Trichloroethene	4.2	13	4.2	1.8	U
123-91-1	1,4-Dioxane	6.2	19	6.2	2.3	U
142-82-5	n-Heptane	<b>420</b>	17	10	2.7	
108-10-1	4-Methyl-2-pentanone	5.5	32	5.5	2.4	U
108-88-3	Toluene	<b>990</b>	18	6.0	2.3	
591-78-6	2-Hexanone	5.5	32	5.5	2.1	U
124-48-1	Dibromochloromethane	2.6	8.1	2.6	1.1	U
106-93-4	1,2-Dibromoethane	2.9	8.9	2.9	1.1	U
127-18-4	Tetrachloroethene	3.3	10	3.3	1.3	U
100-41-4	Ethylbenzene	<b>39</b>	16	5.2	2.3	
179601-23-1	m,p-Xylenes	<b>610</b>	30	10	4.3	
75-25-2	Bromoform	4.1	6.8	4.1	1.4	U
100-42-5	Styrene	9.9	16	9.9	2.7	U
95-47-6	o-Xylene	<b>220</b>	16	5.2	2.3	
108-67-8	1,3,5-Trimethylbenzene	<b>57</b>	14	4.6	2.1	
95-63-6	1,2,4-Trimethylbenzene	<b>51</b>	14	4.6	2.0	
120-82-1	1,2,4-Trichlorobenzene	5.7	18	5.7	2.3	U
91-20-3	Naphthalene	7.8	13	7.8	3.3	U
1330-20-7	Xylenes, Total	<b>830</b>	30	10	4.3	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE13-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00412

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.00125 Liter(s)

0.00050 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 7.77

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1,700	500	310	120	
75-71-8	Dichlorodifluoromethane (CFC 12)	110	170	110	29	U
74-87-3	Chloromethane	250	410	250	68	U
75-01-4	Vinyl Chloride	110	340	110	37	U
106-99-0	1,3-Butadiene	240	390	240	65	U
75-00-3	Chloroethane	200	320	200	41	U
64-17-5	Ethanol	720	4,600	720	320	U
67-64-1	Acetone	1,900	3,600	1,900	830	U
75-69-4	Trichlorofluoromethane	93	150	93	24	U
67-63-0	2-Propanol (Isopropyl Alcohol)	420	670	420	150	U
75-09-2	Methylene Chloride	150	250	150	71	U
76-13-1	Trichlorotrifluoroethane	30	110	36	16	J
75-15-0	Carbon Disulfide	280	530	280	84	U
75-34-3	1,1-Dichloroethane	130	220	130	32	U
78-93-3	2-Butanone (MEK)	180	560	180	61	U
141-78-6	Ethyl Acetate	300	460	300	130	U
110-54-3	n-Hexane	45,000	610	370	130	D
67-66-3	Chloroform	57	180	57	24	U
109-99-9	Tetrahydrofuran (THF)	95	560	95	37	U
107-06-2	1,2-Dichloroethane	69	210	69	24	U
71-43-2	Benzene	8,100	270	87	40	
56-23-5	Carbon Tetrachloride	44	130	44	19	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE13-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00412

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.00125 Liter(s)

0.00050 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 7.77

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	79,000	480	160	71	
75-27-4	Bromodichloromethane	42	130	42	19	U
79-01-6	Trichloroethene	56	160	52	22	J
123-91-1	1,4-Dioxane	77	240	77	29	U
142-82-5	n-Heptane	33,000	520	320	85	D
108-10-1	4-Methyl-2-pentanone	68	400	68	29	U
108-88-3	Toluene	1,100	230	74	28	
591-78-6	2-Hexanone	68	400	68	26	U
124-48-1	Dibromochloromethane	33	100	33	13	U
106-93-4	1,2-Dibromoethane	36	110	36	13	U
127-18-4	Tetrachloroethene	53	130	41	17	J
100-41-4	Ethylbenzene	49	200	64	28	J
179601-23-1	m,p-Xylenes	160	380	130	53	J
75-25-2	Bromoform	51	84	51	17	U
100-42-5	Styrene	120	200	120	33	U
95-47-6	o-Xylene	310	200	64	29	
108-67-8	1,3,5-Trimethylbenzene	130	180	57	26	J
95-63-6	1,2,4-Trimethylbenzene	57	170	57	25	U
120-82-1	1,2,4-Trichlorobenzene	71	220	71	29	U
91-20-3	Naphthalene	97	160	97	41	U
1330-20-7	Xylenes, Total	470	380	130	53	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00888

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.40 Final Pressure (psig): 7.30

Container Dilution Factor: 1.95

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3.2	1.5	0.91	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.92	0.51	0.32	0.086	
74-87-3	Chloromethane	0.76	1.2	0.76	0.20	U
75-01-4	Vinyl Chloride	0.32	1.0	0.32	0.11	U
106-99-0	1,3-Butadiene	0.71	1.1	0.71	0.19	U
75-00-3	Chloroethane	0.59	0.96	0.59	0.12	U
64-17-5	Ethanol	2.1	14	2.1	0.96	U
67-64-1	Acetone	5.5	11	5.5	2.5	U
75-69-4	Trichlorofluoromethane	5.1	0.44	0.28	0.070	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.44	U
75-09-2	Methylene Chloride	0.45	0.73	0.45	0.21	U
76-13-1	Trichlorotrifluoroethane	9.9	0.34	0.11	0.048	
75-15-0	Carbon Disulfide	1.2	1.6	0.85	0.25	J
75-34-3	1,1-Dichloroethane	0.40	0.65	0.40	0.094	U
78-93-3	2-Butanone (MEK)	0.53	1.7	0.53	0.18	U
141-78-6	Ethyl Acetate	0.88	1.4	0.88	0.38	U
110-54-3	n-Hexane	1.0	0.72	0.44	0.15	
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.28	1.7	0.28	0.11	U
107-06-2	1,2-Dichloroethane	0.20	0.63	0.20	0.071	U
71-43-2	Benzene	0.18	0.79	0.26	0.12	J
56-23-5	Carbon Tetrachloride	0.13	0.40	0.13	0.057	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-050-204

ALS Project ID: P2006072

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006072-018

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00888

Initial Pressure (psig): -3.40 Final Pressure (psig): 7.30

Container Dilution Factor: 1.95

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.61</b>	1.4	0.48	0.21	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.38	0.12	0.056	<b>U</b>
79-01-6	Trichloroethene	0.15	0.46	0.15	0.065	<b>U</b>
123-91-1	1,4-Dioxane	0.23	0.70	0.23	0.085	<b>U</b>
142-82-5	n-Heptane	<b>2.3</b>	0.62	0.38	0.10	
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.087	<b>U</b>
108-88-3	Toluene	<b>0.60</b>	0.67	0.22	0.084	<b>J</b>
591-78-6	2-Hexanone	0.20	1.2	0.20	0.079	<b>U</b>
124-48-1	Dibromochloromethane	0.097	0.30	0.097	0.040	<b>U</b>
106-93-4	1,2-Dibromoethane	0.11	0.33	0.11	0.039	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.43</b>	0.37	0.12	0.050	
100-41-4	Ethylbenzene	0.19	0.58	0.19	0.084	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.24</b>	1.1	0.38	0.16	<b>J</b>
75-25-2	Bromoform	0.15	0.25	0.15	0.052	<b>U</b>
100-42-5	Styrene	0.37	0.60	0.37	0.099	<b>U</b>
95-47-6	o-Xylene	<b>0.091</b>	0.60	0.19	0.086	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.076	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.073	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	0.21	0.66	0.21	0.085	<b>U</b>
91-20-3	Naphthalene	0.29	0.48	0.29	0.12	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.33</b>	1.1	0.38	0.16	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00582

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.00010 Liter(s)

0.000025 Liter(s)

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2,900	5,800	3,600	1,400	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1,200	2,000	1,200	340	U
74-87-3	Chloromethane	3,000	4,800	3,000	800	U
75-01-4	Vinyl Chloride	1,300	4,000	1,300	430	U
106-99-0	1,3-Butadiene	2,800	4,500	2,800	760	U
75-00-3	Chloroethane	2,300	3,800	2,300	480	U
64-17-5	Ethanol	8,400	54,000	8,400	3,800	U
67-64-1	Acetone	22,000	42,000	22,000	9,700	U
75-69-4	Trichlorofluoromethane	1,100	1,700	1,100	280	U
67-63-0	2-Propanol (Isopropyl Alcohol)	4,900	7,800	4,900	1,700	U
75-09-2	Methylene Chloride	1,800	2,900	1,800	830	U
76-13-1	Trichlorotrifluoroethane	300	1,300	420	190	J
75-15-0	Carbon Disulfide	3,300	6,100	3,300	980	U
75-34-3	1,1-Dichloroethane	1,600	2,500	1,600	370	U
78-93-3	2-Butanone (MEK)	2,100	6,500	2,100	710	U
141-78-6	Ethyl Acetate	3,400	5,300	3,400	1,500	U
110-54-3	n-Hexane	870,000	11,000	6,900	2,400	D
67-66-3	Chloroform	670	2,100	670	280	U
109-99-9	Tetrahydrofuran (THF)	1,100	6,500	1,100	430	U
107-06-2	1,2-Dichloroethane	800	2,500	800	280	U
71-43-2	Benzene	47,000	3,100	1,000	460	U
56-23-5	Carbon Tetrachloride	520	1,500	520	220	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-100-204

ALS Project ID: P2006072

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006072-019

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

0.000025 Liter(s)

Container ID: 1SC00582

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>840,000</b>	5,600	1,900	830	
75-27-4	Bromodichloromethane	480	1,500	480	220	U
79-01-6	Trichloroethene	<b>470</b>	1,800	600	260	J
123-91-1	1,4-Dioxane	900	2,800	900	330	U
142-82-5	n-Heptane	<b>260,000</b>	2,400	1,500	400	
108-10-1	4-Methyl-2-pentanone	790	4,700	790	340	U
108-88-3	Toluene	<b>37,000</b>	2,600	860	330	
591-78-6	2-Hexanone	790	4,700	790	310	U
124-48-1	Dibromochloromethane	380	1,200	380	160	U
106-93-4	1,2-Dibromoethane	420	1,300	420	150	U
127-18-4	Tetrachloroethene	<b>630</b>	1,500	480	190	J
100-41-4	Ethylbenzene	<b>2,600</b>	2,300	750	330	
179601-23-1	m,p-Xylenes	<b>14,000</b>	4,400	1,500	620	
75-25-2	Bromoform	590	980	590	200	U
100-42-5	Styrene	1,400	2,300	1,400	390	U
95-47-6	o-Xylene	<b>4,800</b>	2,300	750	340	
108-67-8	1,3,5-Trimethylbenzene	<b>1,300</b>	2,100	660	300	J
95-63-6	1,2,4-Trimethylbenzene	<b>1,500</b>	2,000	660	290	J
120-82-1	1,2,4-Trichlorobenzene	820	2,600	820	330	U
91-20-3	Naphthalene	1,100	1,900	1,100	470	U
1330-20-7	Xylenes, Total	<b>19,000</b>	4,400	1,500	620	

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00967

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.00015 Liter(s)

0.000050 Liter(s)

Initial Pressure (psig): -2.62 Final Pressure (psig): 7.93

Container Dilution Factor: 1.87

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	7,500	3,800	2,300	940	
75-71-8	Dichlorodifluoromethane (CFC 12)	810	1,300	810	220	U
74-87-3	Chloromethane	1,900	3,100	1,900	520	U
75-01-4	Vinyl Chloride	830	2,600	830	280	U
106-99-0	1,3-Butadiene	1,800	2,900	1,800	500	U
75-00-3	Chloroethane	1,500	2,500	1,500	310	U
64-17-5	Ethanol	5,500	35,000	5,500	2,400	U
67-64-1	Acetone	14,000	27,000	14,000	6,300	U
75-69-4	Trichlorofluoromethane	710	1,100	710	180	U
67-63-0	2-Propanol (Isopropyl Alcohol)	3,200	5,100	3,200	1,100	U
75-09-2	Methylene Chloride	1,100	1,900	1,100	540	U
76-13-1	Trichlorotrifluoroethane	220	860	280	120	J
75-15-0	Carbon Disulfide	2,200	4,000	2,200	640	U
75-34-3	1,1-Dichloroethane	1,000	1,700	1,000	240	U
78-93-3	2-Butanone (MEK)	1,400	4,200	1,400	470	U
141-78-6	Ethyl Acetate	2,200	3,500	2,200	970	U
110-54-3	n-Hexane	370,000	5,500	3,400	1,200	D
67-66-3	Chloroform	430	1,400	430	180	U
109-99-9	Tetrahydrofuran (THF)	720	4,200	720	280	U
107-06-2	1,2-Dichloroethane	520	1,600	520	180	U
71-43-2	Benzene	28,000	2,000	660	300	
56-23-5	Carbon Tetrachloride	340	1,000	340	150	U

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D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-250-204

ALS Project ID: P2006072

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006072-020

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

0.000050 Liter(s)

Container ID: 1SS00967

Initial Pressure (psig): -2.62 Final Pressure (psig): 7.93

Container Dilution Factor: 1.87

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>510,000</b>	3,600	1,200	540	
75-27-4	Bromodichloromethane	320	970	320	140	U
79-01-6	Trichloroethene	<b>310</b>	1,200	390	170	J
123-91-1	1,4-Dioxane	590	1,800	590	220	U
142-82-5	n-Heptane	<b>310,000</b>	4,700	2,900	780	D
108-10-1	4-Methyl-2-pentanone	520	3,000	520	220	U
108-88-3	Toluene	<b>7,500</b>	1,700	560	220	
591-78-6	2-Hexanone	520	3,000	520	200	U
124-48-1	Dibromochloromethane	250	760	250	100	U
106-93-4	1,2-Dibromoethane	280	840	280	100	U
127-18-4	Tetrachloroethene	<b>400</b>	960	310	130	J
100-41-4	Ethylbenzene	<b>590</b>	1,500	490	220	J
179601-23-1	m,p-Xylenes	<b>670</b>	2,900	980	400	J
75-25-2	Bromoform	390	640	390	130	U
100-42-5	Styrene	940	1,500	940	250	U
95-47-6	o-Xylene	<b>1,300</b>	1,500	490	220	J
108-67-8	1,3,5-Trimethylbenzene	430	1,300	430	200	U
95-63-6	1,2,4-Trimethylbenzene	430	1,300	430	190	U
120-82-1	1,2,4-Trichlorobenzene	540	1,700	540	220	U
91-20-3	Naphthalene	740	1,200	740	310	U
1330-20-7	Xylenes, Total	<b>2,000</b>	2,900	980	400	J

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D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201108-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/8/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

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 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201108-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/8/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201109-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/9/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201109-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/9/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/19 - 10/20/20

Analyst: Simon Cao/Lusine Hakobyan/Topacio De Leon/Wida Ang

Date(s) Received: 10/26/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 11/8 - 11/9/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201108-MB	99	106	102	70-130	
Method Blank	P201109-MB	98	107	104	70-130	
Lab Control Sample	P201108-LCS	98	102	102	70-130	
Lab Control Sample	P201109-LCS	95	103	103	70-130	
Duplicate Lab Control Sample	P201108-DLCS	99	98	104	70-130	
Duplicate Lab Control Sample	P201109-DLCS	96	102	102	70-130	
SV130-050-204	P2006072-001	100	102	103	70-130	
SV130-150-204	P2006072-002	100	101	105	70-130	
SV130-250-204	P2006072-003	98	102	104	70-130	
SV130-350-204	P2006072-004	98	102	106	70-130	
SV130-450-204	P2006072-005	97	102	107	70-130	
SV130-450-604	P2006072-006	98	103	109	70-130	
SV131-025-204	P2006072-007	97	106	108	70-130	
SV131-055-204	P2006072-008	97	107	107	70-130	
SV131-150-204	P2006072-009	97	105	107	70-130	
SV131-245-204	P2006072-010	101	102	106	70-130	
SV131-350-204	P2006072-011	98	100	105	70-130	
SV131-450-204	P2006072-012	99	108	104	70-130	
SVE10-410-204	P2006072-013	99	102	106	70-130	
SVE10-410-604	P2006072-014	101	102	106	70-130	
SVE11-410-204	P2006072-015	101	87	87	70-130	
SVE11-410-204	P2006072-015DUP	100	89	88	70-130	
SVE11-410-604	P2006072-016	101	93	94	70-130	
SVE13-410-204	P2006072-017	100	96	100	70-130	
SV01-050-204	P2006072-018	96	100	107	70-130	
SV01-100-204	P2006072-019	99	100	106	70-130	
SV01-250-204	P2006072-020	100	101	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

Revised Page

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## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201108-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/8/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	122	115	116	94	95	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	37.9	38.6	89	91	59-128	2	25	
74-87-3	Chloromethane	99.8	76.1	79.0	76	79	59-132	4	25	
75-01-4	Vinyl Chloride	81.4	75.2	76.3	92	94	64-127	2	25	
106-99-0	1,3-Butadiene	95.0	86.4	94.6	91	100	66-134	9	25	
75-00-3	Chloroethane	77.3	71.0	72.1	92	93	63-127	1	25	
64-17-5	Ethanol	530	488	500	92	94	59-125	2	25	
67-64-1	Acetone	435	397	398	91	91	58-128	0	25	
75-69-4	Trichlorofluoromethane	36.3	34.1	34.2	94	94	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	146	153	88	92	52-125	4	25	
75-09-2	Methylene Chloride	59.9	54.8	54.9	91	92	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	27.9	26.3	26.1	94	94	66-126	0	25	
75-15-0	Carbon Disulfide	137	131	132	96	96	57-134	0	25	
75-34-3	1,1-Dichloroethane	52.4	48.1	48.6	92	93	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	141	141	101	101	67-130	0	25	
141-78-6	Ethyl Acetate	117	149	150	127	128	65-128	0.8	25	
110-54-3	n-Hexane	60.2	61.8	62.3	103	103	63-120	0	25	
67-66-3	Chloroform	43.8	40.6	40.8	93	93	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	136	129	130	95	96	64-123	1	25	
107-06-2	1,2-Dichloroethane	51.4	48.4	49.0	94	95	65-128	1	25	
71-43-2	Benzene	63.9	58.7	59.9	92	94	69-119	2	25	
56-23-5	Carbon Tetrachloride	33.4	30.8	31.2	92	93	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201108-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/8/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		ppbV	ppbV	ppbV	ppbV					
110-82-7	Cyclohexane	121	117	120	97	99	70-117	2	25	
75-27-4	Bromodichloromethane	31.4	30.5	31.2	97	99	72-128	2	25	
79-01-6	Trichloroethene	38.3	35.6	36.3	93	95	71-123	2	25	
123-91-1	1,4-Dioxane	57.7	55.8	56.6	97	98	71-122	1	25	
142-82-5	n-Heptane	51.3	49.1	50.3	96	98	69-123	2	25	
108-10-1	4-Methyl-2-pentanone	102	101	104	99	102	67-130	3	25	
108-88-3	Toluene	54.7	53.7	51.9	98	95	66-119	3	25	
591-78-6	2-Hexanone	98.7	105	103	106	104	62-128	2	25	
124-48-1	Dibromochloromethane	24.7	27.0	26.0	109	105	70-130	4	25	
106-93-4	1,2-Dibromoethane	27.1	28.2	27.2	104	100	74-122	4	25	
127-18-4	Tetrachloroethene	30.4	30.9	29.6	102	97	66-124	5	25	
100-41-4	Ethylbenzene	47.4	48.5	46.9	102	99	70-124	3	25	
179601-23-1	m,p-Xylenes	94.9	97.6	95.9	103	101	61-134	2	25	
75-25-2	Bromoform	20.1	21.2	20.5	105	102	66-139	3	25	
100-42-5	Styrene	48.4	54.0	51.9	112	107	73-127	5	25	
95-47-6	o-Xylene	47.4	49.5	48.1	104	101	67-125	3	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	43.8	43.9	105	105	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	47.2	46.5	114	112	66-132	2	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	63.4	62.2	121	119	55-142	2	25	
91-20-3	Naphthalene	37.8	41.5	41.1	110	109	57-138	0.9	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201109-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/9/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	122	114	111	93	91	57-136	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	37.4	37.1	88	87	59-128	1	25	
74-87-3	Chloromethane	99.8	71.9	71.7	72	72	59-132	0	25	
75-01-4	Vinyl Chloride	81.4	73.6	73.0	90	90	64-127	0	25	
106-99-0	1,3-Butadiene	95.0	75.9	76.7	80	81	66-134	1	25	
75-00-3	Chloroethane	77.3	70.1	70.8	91	92	63-127	1	25	
64-17-5	Ethanol	530	474	482	89	91	59-125	2	25	
67-64-1	Acetone	435	381	389	88	89	58-128	1	25	
75-69-4	Trichlorofluoromethane	36.3	33.3	33.9	92	93	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	140	142	84	86	52-125	2	25	
75-09-2	Methylene Chloride	59.9	53.5	54.4	89	91	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	27.9	25.7	26.0	92	93	66-126	1	25	
75-15-0	Carbon Disulfide	137	127	128	93	93	57-134	0	25	
75-34-3	1,1-Dichloroethane	52.4	47.0	47.6	90	91	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	137	139	98	99	67-130	1	25	
141-78-6	Ethyl Acetate	117	143	144	122	123	65-128	0.8	25	
110-54-3	n-Hexane	60.2	59.7	60.0	99	100	63-120	1	25	
67-66-3	Chloroform	43.8	38.9	39.9	89	91	68-123	2	25	
109-99-9	Tetrahydrofuran (THF)	136	123	128	90	94	64-123	4	25	
107-06-2	1,2-Dichloroethane	51.4	46.4	47.3	90	92	65-128	2	25	
71-43-2	Benzene	63.9	57.3	58.5	90	92	69-119	2	25	
56-23-5	Carbon Tetrachloride	33.4	30.5	30.6	91	92	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201109-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/9/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS		LCS	DLCS	LCS	DLCS	Acceptance	RPD	
		ppbV		ppbV	ppbV			Limits	Limit	
110-82-7	Cyclohexane	121		116	116	96	96	70-117	0	25
75-27-4	Bromodichloromethane	31.4		30.3	30.3	96	96	72-128	0	25
79-01-6	Trichloroethene	38.3		35.1	35.4	92	92	71-123	0	25
123-91-1	1,4-Dioxane	57.7		54.8	55.3	95	96	71-122	1	25
142-82-5	n-Heptane	51.3		47.5	46.8	93	91	69-123	2	25
108-10-1	4-Methyl-2-pentanone	102		98.7	96.1	97	94	67-130	3	25
108-88-3	Toluene	54.7		53.2	53.2	97	97	66-119	0	25
591-78-6	2-Hexanone	98.7		103	102	104	103	62-128	1	25
124-48-1	Dibromochloromethane	24.7		26.8	27.0	109	109	70-130	0	25
106-93-4	1,2-Dibromoethane	27.1		28.0	28.1	103	104	74-122	1	25
127-18-4	Tetrachloroethene	30.4		30.6	30.9	101	102	66-124	1	25
100-41-4	Ethylbenzene	47.4		47.9	48.1	101	101	70-124	0	25
179601-23-1	m,p-Xylenes	94.9		97.0	97.9	102	103	61-134	1	25
75-25-2	Bromoform	20.1		21.2	21.4	105	106	66-139	0.9	25
100-42-5	Styrene	48.4		53.1	53.1	110	110	73-127	0	25
95-47-6	o-Xylene	47.4		48.8	49.1	103	104	67-125	1	25
108-67-8	1,3,5-Trimethylbenzene	41.9		42.9	44.4	102	106	67-130	4	25
95-63-6	1,2,4-Trimethylbenzene	41.5		46.0	47.5	111	114	66-132	3	25
120-82-1	1,2,4-Trichlorobenzene	52.3		60.9	64.7	116	124	55-142	7	25
91-20-3	Naphthalene	37.8		39.8	43.3	105	115	57-138	9	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-204

ALS Project ID: P2006072

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006072-015DUP

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

Container ID: 1SS00187

Initial Pressure (psig): -4.70

Final Pressure (psig): 7.70

Container Dilution Factor: 2.24

Compound	Sample Result ppbV	Duplicate		Average ppbV	% RPD	RPD Limit	Data Qualifier
		Sample Result ppbV	Sample Result ppbV				
Propene	53	51	52	4	25		
Dichlorodifluoromethane (CFC 12)	ND	ND	-	-	25		
Chloromethane	6.1	5.8	5.95	5	25	J	
Vinyl Chloride	ND	ND	-	-	25		
1,3-Butadiene	ND	ND	-	-	25		
Chloroethane	ND	ND	-	-	25		
Ethanol	ND	ND	-	-	25		
Acetone	ND	ND	-	-	25		
Trichlorofluoromethane	ND	ND	-	-	25		
2-Propanol (Isopropyl Alcohol)	ND	ND	-	-	25		
Methylene Chloride	ND	ND	-	-	25		
Trichlorotrifluoroethane	1.6	1.5	1.55	6	25	J	
Carbon Disulfide	6.4	6.5	6.45	2	25	J	
1,1-Dichloroethane	ND	ND	-	-	25		
2-Butanone (MEK)	ND	ND	-	-	25		
Ethyl Acetate	ND	ND	-	-	25		
n-Hexane	440	430	435	2	25		
Chloroform	1.5	1.4	1.45	7	25	J	
Tetrahydrofuran (THF)	5.4	5.4	5.4	0	25	J	
1,2-Dichloroethane	ND	ND	-	-	25		
Benzene	1,100	1,000	1050	10	25		
Carbon Tetrachloride	0.94	0.92	0.93	2	25	J	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-204

ALS Project ID: P2006072

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006072-015DUP

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

Container ID: 1SS00187

Initial Pressure (psig): -4.70

Final Pressure (psig): 7.70

Container Dilution Factor: 2.24

Compound	Sample Result ppbV	Duplicate		Average ppbV	% RPD	RPD Limit	Data Qualifier
		Sample Result ppbV	Sample Result ppbV				
Cyclohexane	2,800	2,700	2,750	2750	4	25	
Bromodichloromethane	ND	ND	-	-	-	25	
Trichloroethene	ND	ND	-	-	-	25	
1,4-Dioxane	ND	ND	-	-	-	25	
n-Heptane	350	350	350	350	0	25	
4-Methyl-2-pentanone	ND	ND	-	-	-	25	
Toluene	770	750	760	760	3	25	
2-Hexanone	ND	ND	-	-	-	25	
Dibromochloromethane	ND	ND	-	-	-	25	
1,2-Dibromoethane	ND	ND	-	-	-	25	
Tetrachloroethene	0.57	0.59	0.58	0.58	3	25	J
Ethylbenzene	30	29	29.5	29.5	3	25	
m,p-Xylenes	480	460	470	470	4	25	
Bromoform	ND	ND	-	-	-	25	
Styrene	ND	ND	-	-	-	25	
o-Xylene	170	160	165	165	6	25	
1,3,5-Trimethylbenzene	43	43	43	43	0	25	
1,2,4-Trimethylbenzene	40	39	39.5	39.5	3	25	
1,2,4-Trichlorobenzene	ND	ND	-	-	-	25	
Naphthalene	ND	ND	-	-	-	25	
Xylenes, Total	650	630	640	640	3	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-001

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00934

Initial Pressure (psig): -4.41 Final Pressure (psig): 7.33

Container Dilution Factor: 2.14

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.8	1.7	0.70	U
75-71-8	Dichlorodifluoromethane (CFC 12)	3.9	2.8	1.7	0.47	
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	U
75-01-4	Vinyl Chloride	0.91	2.8	0.91	0.30	U
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	U
64-17-5	Ethanol	4.4	28	4.4	2.0	U
67-64-1	Acetone	19	28	14	6.4	J
75-69-4	Trichlorofluoromethane	1.0	2.7	1.7	0.43	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.4	5.4	3.4	1.2	U
75-09-2	Methylene Chloride	1.7	2.8	1.7	0.80	U
76-13-1	Trichlorotrifluoroethane	4.3	2.8	0.91	0.41	
75-15-0	Carbon Disulfide	1.6	5.4	2.9	0.86	J
75-34-3	1,1-Dichloroethane	1.8	2.9	1.8	0.42	U
78-93-3	2-Butanone (MEK)	2.7	5.4	1.7	0.59	J
141-78-6	Ethyl Acetate	6.1	5.4	3.5	1.5	
110-54-3	n-Hexane	1.7	2.8	1.7	0.59	U
67-66-3	Chloroform	1.2	2.8	0.91	0.38	J
109-99-9	Tetrahydrofuran (THF)	40	5.4	0.91	0.36	
107-06-2	1,2-Dichloroethane	0.91	2.8	0.91	0.32	U
71-43-2	Benzene	0.91	2.8	0.91	0.41	U
56-23-5	Carbon Tetrachloride	1.1	2.7	0.91	0.40	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-001

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00934

Initial Pressure (psig): -4.41 Final Pressure (psig): 7.33

Container Dilution Factor: 2.14

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.8	5.4	1.8	0.80	U
75-27-4	Bromodichloromethane	0.91	2.8	0.91	0.41	U
79-01-6	Trichloroethene	4.2	2.7	0.91	0.39	
123-91-1	1,4-Dioxane	0.91	2.8	0.91	0.34	U
142-82-5	n-Heptane	1.7	2.8	1.7	0.45	U
108-10-1	4-Methyl-2-pentanone	0.91	5.4	0.91	0.39	U
108-88-3	Toluene	0.80	2.8	0.91	0.35	J
591-78-6	2-Hexanone	0.91	5.4	0.91	0.35	U
124-48-1	Dibromochloromethane	0.91	2.8	0.91	0.37	U
106-93-4	1,2-Dibromoethane	0.91	2.8	0.91	0.33	U
127-18-4	Tetrachloroethene	2.3	2.8	0.91	0.37	J
100-41-4	Ethylbenzene	0.91	2.8	0.91	0.40	U
179601-23-1	m,p-Xylenes	1.8	5.4	1.8	0.75	U
75-25-2	Bromoform	1.7	2.8	1.7	0.59	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	0.91	2.8	0.91	0.41	U
108-67-8	1,3,5-Trimethylbenzene	0.91	2.8	0.91	0.41	U
95-63-6	1,2,4-Trimethylbenzene	0.91	2.8	0.91	0.40	U
120-82-1	1,2,4-Trichlorobenzene	1.7	5.4	1.7	0.70	U
91-20-3	Naphthalene	1.7	2.8	1.7	0.70	U
1330-20-7	Xylenes, Total	1.8	5.4	1.8	0.75	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00879

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/8/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.40 Final Pressure (psig): 7.14

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.84</b>	2.8	1.7	0.69	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>5.6</b>	2.8	1.7	0.46	
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	<b>U</b>
75-01-4	Vinyl Chloride	0.90	2.8	0.90	0.30	<b>U</b>
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	<b>U</b>
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	<b>U</b>
64-17-5	Ethanol	<b>2.9</b>	28	4.4	2.0	<b>J</b>
67-64-1	Acetone	<b>7.1</b>	28	14	6.4	<b>J</b>
75-69-4	Trichlorofluoromethane	<b>1.2</b>	2.7	1.7	0.43	<b>J</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	3.3	5.3	3.3	1.2	<b>U</b>
75-09-2	Methylene Chloride	1.7	2.8	1.7	0.80	<b>U</b>
76-13-1	Trichlorotrifluoroethane	<b>7.0</b>	2.8	0.90	0.40	
75-15-0	Carbon Disulfide	<b>13</b>	5.3	2.9	0.85	
75-34-3	1,1-Dichloroethane	1.7	2.9	1.7	0.41	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.5</b>	5.3	1.7	0.58	<b>J</b>
141-78-6	Ethyl Acetate	<b>7.1</b>	5.3	3.4	1.5	
110-54-3	n-Hexane	1.7	2.8	1.7	0.58	<b>U</b>
67-66-3	Chloroform	0.90	2.8	0.90	0.38	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>7.5</b>	5.3	0.90	0.36	
107-06-2	1,2-Dichloroethane	0.90	2.8	0.90	0.31	<b>U</b>
71-43-2	Benzene	<b>1.0</b>	2.8	0.90	0.41	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.91</b>	2.7	0.90	0.39	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-002

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00879

Initial Pressure (psig): -4.40 Final Pressure (psig): 7.14

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.8	5.3	1.8	0.80	U
75-27-4	Bromodichloromethane	0.90	2.8	0.90	0.41	U
79-01-6	Trichloroethene	<b>2.6</b>	2.7	0.90	0.38	J
123-91-1	1,4-Dioxane	0.90	2.8	0.90	0.33	U
142-82-5	n-Heptane	<b>0.73</b>	2.8	1.7	0.45	J
108-10-1	4-Methyl-2-pentanone	0.90	5.3	0.90	0.39	U
108-88-3	Toluene	<b>4.5</b>	2.8	0.90	0.34	U
591-78-6	2-Hexanone	0.90	5.3	0.90	0.35	U
124-48-1	Dibromochloromethane	0.90	2.8	0.90	0.37	U
106-93-4	1,2-Dibromoethane	0.90	2.8	0.90	0.33	U
127-18-4	Tetrachloroethene	<b>6.7</b>	2.8	0.90	0.37	U
100-41-4	Ethylbenzene	0.90	2.8	0.90	0.40	U
179601-23-1	m,p-Xylenes	<b>4.7</b>	5.3	1.8	0.74	J
75-25-2	Bromoform	1.7	2.8	1.7	0.58	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	<b>1.1</b>	2.8	0.90	0.41	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.44</b>	2.8	0.90	0.41	J
95-63-6	1,2,4-Trimethylbenzene	<b>1.6</b>	2.8	0.90	0.39	J
120-82-1	1,2,4-Trichlorobenzene	1.7	5.3	1.7	0.69	U
91-20-3	Naphthalene	1.6	2.8	1.6	0.69	U
1330-20-7	Xylenes, Total	<b>5.9</b>	5.3	1.8	0.74	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01145

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/8/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.38 Final Pressure (psig): 7.42

Container Dilution Factor: 2.14

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.8	2.8	1.7	0.70	J
75-71-8	Dichlorodifluoromethane (CFC 12)	3.2	2.8	1.7	0.47	
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	U
75-01-4	Vinyl Chloride	0.91	2.8	0.91	0.30	U
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	U
64-17-5	Ethanol	8.0	28	4.4	2.0	J
67-64-1	Acetone	33	28	14	6.4	
75-69-4	Trichlorofluoromethane	1.1	2.7	1.7	0.43	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.5	5.4	3.4	1.2	J
75-09-2	Methylene Chloride	1.7	2.8	1.7	0.80	U
76-13-1	Trichlorotrifluoroethane	5.8	2.8	0.91	0.41	
75-15-0	Carbon Disulfide	11	5.4	2.9	0.86	
75-34-3	1,1-Dichloroethane	1.8	2.9	1.8	0.42	U
78-93-3	2-Butanone (MEK)	4.5	5.4	1.7	0.59	J
141-78-6	Ethyl Acetate	23	5.4	3.5	1.5	
110-54-3	n-Hexane	1.7	2.8	1.7	0.59	U
67-66-3	Chloroform	0.47	2.8	0.91	0.38	J
109-99-9	Tetrahydrofuran (THF)	4.6	5.4	0.91	0.36	J
107-06-2	1,2-Dichloroethane	0.91	2.8	0.91	0.32	U
71-43-2	Benzene	0.99	2.8	0.91	0.41	J
56-23-5	Carbon Tetrachloride	0.85	2.7	0.91	0.40	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-003

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01145

Initial Pressure (psig): -4.38 Final Pressure (psig): 7.42

Container Dilution Factor: 2.14

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.8	5.4	1.8	0.80	U
75-27-4	Bromodichloromethane	0.91	2.8	0.91	0.41	U
79-01-6	Trichloroethene	14	2.7	0.91	0.39	
123-91-1	1,4-Dioxane	0.91	2.8	0.91	0.34	U
142-82-5	n-Heptane	1.7	2.8	1.7	0.45	U
108-10-1	4-Methyl-2-pentanone	0.91	5.4	0.91	0.39	U
108-88-3	Toluene	2.9	2.8	0.91	0.35	
591-78-6	2-Hexanone	1.1	5.4	0.91	0.35	J
124-48-1	Dibromochloromethane	0.91	2.8	0.91	0.37	U
106-93-4	1,2-Dibromoethane	0.91	2.8	0.91	0.33	U
127-18-4	Tetrachloroethene	7.5	2.8	0.91	0.37	
100-41-4	Ethylbenzene	0.91	2.8	0.91	0.40	U
179601-23-1	m,p-Xylenes	0.83	5.4	1.8	0.75	J
75-25-2	Bromoform	1.7	2.8	1.7	0.59	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	0.91	2.8	0.91	0.41	U
108-67-8	1,3,5-Trimethylbenzene	0.91	2.8	0.91	0.41	U
95-63-6	1,2,4-Trimethylbenzene	0.91	2.8	0.91	0.40	U
120-82-1	1,2,4-Trichlorobenzene	0.93	5.4	1.7	0.70	J
91-20-3	Naphthalene	1.7	2.8	1.7	0.70	U
1330-20-7	Xylenes, Total	0.83	5.4	1.8	0.75	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00304

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/8/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.05 Final Pressure (psig): 8.93

Container Dilution Factor: 2.03

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.3	2.6	1.6	0.66	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	2.6	1.6	0.44	
74-87-3	Chloromethane	0.76	2.6	1.6	0.44	J
75-01-4	Vinyl Chloride	0.86	2.7	0.86	0.29	U
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.45	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	17	27	4.2	1.9	J
67-64-1	Acetone	76	26	14	6.1	
75-69-4	Trichlorofluoromethane	1.1	2.6	1.6	0.41	J
67-63-0	2-Propanol (Isopropyl Alcohol)	4.2	5.1	3.2	1.1	J
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.76	U
76-13-1	Trichlorotrifluoroethane	1.7	2.7	0.86	0.39	J
75-15-0	Carbon Disulfide	22	5.1	2.7	0.81	
75-34-3	1,1-Dichloroethane	1.7	2.7	1.7	0.40	U
78-93-3	2-Butanone (MEK)	9.8	5.1	1.6	0.56	
141-78-6	Ethyl Acetate	22	5.1	3.3	1.4	
110-54-3	n-Hexane	1.6	2.6	1.6	0.56	U
67-66-3	Chloroform	0.89	2.7	0.86	0.36	J
109-99-9	Tetrahydrofuran (THF)	10	5.1	0.86	0.34	
107-06-2	1,2-Dichloroethane	0.86	2.6	0.86	0.30	U
71-43-2	Benzene	1.2	2.6	0.86	0.39	J
56-23-5	Carbon Tetrachloride	0.98	2.6	0.86	0.38	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-004

Test Code: EPA TO-15

Date Collected: 10/20/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/8/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00304

Initial Pressure (psig): -3.05 Final Pressure (psig): 8.93

Container Dilution Factor: 2.03

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	5.1	1.7	0.76	U
75-27-4	Bromodichloromethane	0.86	2.6	0.86	0.39	U
79-01-6	Trichloroethene	<b>7.2</b>	2.6	0.86	0.37	
123-91-1	1,4-Dioxane	<b>0.73</b>	2.6	0.86	0.32	J
142-82-5	n-Heptane	1.6	2.6	1.6	0.43	U
108-10-1	4-Methyl-2-pentanone	<b>0.51</b>	5.1	0.86	0.37	J
108-88-3	Toluene	<b>4.4</b>	2.6	0.86	0.33	
591-78-6	2-Hexanone	<b>1.0</b>	5.1	0.86	0.33	J
124-48-1	Dibromochloromethane	0.86	2.6	0.86	0.36	U
106-93-4	1,2-Dibromoethane	0.86	2.6	0.86	0.31	U
127-18-4	Tetrachloroethene	<b>6.9</b>	2.6	0.86	0.35	
100-41-4	Ethylbenzene	<b>0.39</b>	2.6	0.86	0.38	J
179601-23-1	m,p-Xylenes	<b>1.3</b>	5.1	1.7	0.71	J
75-25-2	Bromoform	1.6	2.7	1.6	0.56	U
100-42-5	Styrene	1.6	2.6	1.6	0.44	U
95-47-6	o-Xylene	<b>1.3</b>	2.7	0.86	0.39	J
108-67-8	1,3,5-Trimethylbenzene	0.86	2.7	0.86	0.39	U
95-63-6	1,2,4-Trimethylbenzene	0.86	2.6	0.86	0.38	U
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.66	U
91-20-3	Naphthalene	1.6	2.6	1.6	0.66	U
1330-20-7	Xylenes, Total	<b>2.6</b>	5.1	1.7	0.71	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00553

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/8/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.79 Final Pressure (psig): 7.04

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	4.0	2.4	1.5	0.59	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	2.4	1.5	0.40	
74-87-3	Chloromethane	3.5	2.4	1.5	0.39	
75-01-4	Vinyl Chloride	2.5	2.4	0.78	0.26	
106-99-0	1,3-Butadiene	0.42	2.4	1.5	0.40	J
75-00-3	Chloroethane	2.2	2.4	1.5	0.30	J
64-17-5	Ethanol	21	24	3.8	1.7	J
67-64-1	Acetone	94	24	12	5.5	
75-69-4	Trichlorofluoromethane	1.2	2.3	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.5	4.6	2.9	1.0	J
75-09-2	Methylene Chloride	1.4	2.4	1.5	0.69	J
76-13-1	Trichlorotrifluoroethane	1.1	2.4	0.78	0.35	J
75-15-0	Carbon Disulfide	110	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.7	2.5	1.5	0.36	J
78-93-3	2-Butanone (MEK)	58	4.6	1.5	0.50	
141-78-6	Ethyl Acetate	4.3	4.6	3.0	1.3	J
110-54-3	n-Hexane	10	2.4	1.5	0.50	
67-66-3	Chloroform	0.78	2.4	0.78	0.32	U
109-99-9	Tetrahydrofuran (THF)	53	4.6	0.78	0.31	
107-06-2	1,2-Dichloroethane	1.5	2.4	0.78	0.27	J
71-43-2	Benzene	460	2.4	0.78	0.35	
56-23-5	Carbon Tetrachloride	0.78	2.3	0.78	0.34	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00553

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/8/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.79 Final Pressure (psig): 7.04

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	3.3	4.6	1.6	0.69	J
75-27-4	Bromodichloromethane	0.78	2.4	0.78	0.35	U
79-01-6	Trichloroethene	2.7	2.3	0.78	0.33	
123-91-1	1,4-Dioxane	0.38	2.4	0.78	0.29	J
142-82-5	n-Heptane	9.1	2.4	1.5	0.39	
108-10-1	4-Methyl-2-pentanone	9.0	4.6	0.78	0.33	
108-88-3	Toluene	810	24	7.8	3.0	D
591-78-6	2-Hexanone	2.3	4.6	0.78	0.30	J
124-48-1	Dibromochloromethane	0.78	2.4	0.78	0.32	U
106-93-4	1,2-Dibromoethane	0.93	2.4	0.78	0.28	J
127-18-4	Tetrachloroethene	1.7	2.4	0.78	0.32	J
100-41-4	Ethylbenzene	36	2.4	0.78	0.34	
179601-23-1	m,p-Xylenes	94	4.6	1.6	0.64	
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	23	2.4	0.78	0.35	
108-67-8	1,3,5-Trimethylbenzene	2.8	2.4	0.78	0.35	
95-63-6	1,2,4-Trimethylbenzene	4.4	2.4	0.78	0.34	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	120	4.6	1.6	0.64	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00428

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/8/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.92 Final Pressure (psig): 7.25

Container Dilution Factor: 1.86

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.5	2.4	1.5	0.60	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	2.4	1.5	0.40	J
74-87-3	Chloromethane	5.5	2.4	1.5	0.40	
75-01-4	Vinyl Chloride	2.5	2.5	0.79	0.27	J
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	2.1	2.4	1.5	0.31	J
64-17-5	Ethanol	3.9	25	3.9	1.7	U
67-64-1	Acetone	58	24	13	5.6	
75-69-4	Trichlorofluoromethane	0.97	2.4	1.5	0.38	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.5	4.7	2.9	1.0	J
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.70	U
76-13-1	Trichlorotrifluoroethane	1.0	2.5	0.79	0.35	J
75-15-0	Carbon Disulfide	120	4.7	2.5	0.74	
75-34-3	1,1-Dichloroethane	1.7	2.5	1.5	0.36	J
78-93-3	2-Butanone (MEK)	48	4.7	1.5	0.51	
141-78-6	Ethyl Acetate	4.0	4.7	3.0	1.3	J
110-54-3	n-Hexane	9.9	2.4	1.5	0.51	
67-66-3	Chloroform	0.79	2.5	0.79	0.33	U
109-99-9	Tetrahydrofuran (THF)	55	4.7	0.79	0.31	
107-06-2	1,2-Dichloroethane	1.6	2.4	0.79	0.27	J
71-43-2	Benzene	460	2.4	0.79	0.36	
56-23-5	Carbon Tetrachloride	0.79	2.4	0.79	0.34	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV130-450-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00428

Date Collected: 10/20/20

Date Received: 10/26/20

Date Analyzed: 11/8/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.92 Final Pressure (psig): 7.25

Container Dilution Factor: 1.86

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	3.3	4.7	1.6	0.70	J
75-27-4	Bromodichloromethane	0.79	2.4	0.79	0.36	U
79-01-6	Trichloroethene	2.5	2.4	0.79	0.33	
123-91-1	1,4-Dioxane	1.3	2.4	0.79	0.29	J
142-82-5	n-Heptane	9.3	2.4	1.5	0.40	
108-10-1	4-Methyl-2-pentanone	8.5	4.7	0.79	0.34	
108-88-3	Toluene	870	24	7.9	3.0	D
591-78-6	2-Hexanone	2.1	4.7	0.79	0.31	J
124-48-1	Dibromochloromethane	0.79	2.4	0.79	0.33	U
106-93-4	1,2-Dibromoethane	0.96	2.4	0.79	0.29	J
127-18-4	Tetrachloroethene	0.64	2.4	0.79	0.32	J
100-41-4	Ethylbenzene	36	2.4	0.79	0.35	
179601-23-1	m,p-Xylenes	94	4.7	1.6	0.65	
75-25-2	Bromoform	1.5	2.5	1.5	0.51	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	25	2.5	0.79	0.36	
108-67-8	1,3,5-Trimethylbenzene	2.7	2.5	0.79	0.36	
95-63-6	1,2,4-Trimethylbenzene	4.3	2.4	0.79	0.34	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.60	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.60	U
1330-20-7	Xylenes, Total	120	4.7	1.6	0.65	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-007

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00063

Initial Pressure (psig): -4.08 Final Pressure (psig): 7.65

Container Dilution Factor: 2.10

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.7	1.7	0.68	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>120</b>	2.7	1.7	0.46	
74-87-3	Chloromethane	1.7	2.7	1.7	0.45	U
75-01-4	Vinyl Chloride	0.89	2.8	0.89	0.30	U
106-99-0	1,3-Butadiene	1.7	2.7	1.7	0.46	U
75-00-3	Chloroethane	1.7	2.7	1.7	0.35	U
64-17-5	Ethanol	<b>5.1</b>	28	4.4	1.9	J
67-64-1	Acetone	<b>7.8</b>	27	14	6.3	J
75-69-4	Trichlorofluoromethane	<b>14</b>	2.7	1.7	0.43	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.3	5.3	3.3	1.2	U
75-09-2	Methylene Chloride	1.7	2.7	1.7	0.79	U
76-13-1	Trichlorotrifluoroethane	<b>29</b>	2.8	0.89	0.40	
75-15-0	Carbon Disulfide	<b>3.1</b>	5.3	2.8	0.84	J
75-34-3	1,1-Dichloroethane	1.7	2.8	1.7	0.41	U
78-93-3	2-Butanone (MEK)	<b>1.7</b>	5.3	1.7	0.58	J
141-78-6	Ethyl Acetate	3.4	5.3	3.4	1.5	U
110-54-3	n-Hexane	<b>3.2</b>	2.7	1.7	0.58	
67-66-3	Chloroform	<b>3.4</b>	2.8	0.89	0.37	
109-99-9	Tetrahydrofuran (THF)	0.89	5.3	0.89	0.35	U
107-06-2	1,2-Dichloroethane	0.89	2.7	0.89	0.31	U
71-43-2	Benzene	<b>3.6</b>	2.7	0.89	0.40	
56-23-5	Carbon Tetrachloride	<b>9.1</b>	2.7	0.89	0.39	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-025-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-007

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00063

Initial Pressure (psig): -4.08 Final Pressure (psig): 7.65

Container Dilution Factor: 2.10

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.7	5.3	1.8	0.79	J
75-27-4	Bromodichloromethane	0.46	2.7	0.89	0.40	J
79-01-6	Trichloroethene	0.89	2.7	0.89	0.38	U
123-91-1	1,4-Dioxane	0.89	2.7	0.89	0.33	U
142-82-5	n-Heptane	9.2	2.7	1.7	0.45	
108-10-1	4-Methyl-2-pentanone	0.89	5.3	0.89	0.38	U
108-88-3	Toluene	30	2.7	0.89	0.34	
591-78-6	2-Hexanone	0.89	5.3	0.89	0.35	U
124-48-1	Dibromochloromethane	0.89	2.7	0.89	0.37	U
106-93-4	1,2-Dibromoethane	0.89	2.7	0.89	0.33	U
127-18-4	Tetrachloroethene	0.89	2.7	0.89	0.36	U
100-41-4	Ethylbenzene	3.6	2.7	0.89	0.39	
179601-23-1	m,p-Xylenes	19	5.3	1.8	0.74	
75-25-2	Bromoform	1.7	2.8	1.7	0.58	U
100-42-5	Styrene	1.7	2.7	1.7	0.45	U
95-47-6	o-Xylene	7.1	2.8	0.89	0.40	
108-67-8	1,3,5-Trimethylbenzene	3.2	2.8	0.89	0.40	
95-63-6	1,2,4-Trimethylbenzene	7.7	2.7	0.89	0.39	
120-82-1	1,2,4-Trichlorobenzene	1.7	5.3	1.7	0.68	U
91-20-3	Naphthalene	0.81	2.7	1.6	0.68	J
1330-20-7	Xylenes, Total	26	5.3	1.8	0.74	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-055-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-008

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00884

Initial Pressure (psig): -2.97 Final Pressure (psig): 7.64

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.5	1.5	0.62	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>180</b>	2.5	1.5	0.41	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	0.81	2.5	0.81	0.27	U
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.31	U
64-17-5	Ethanol	<b>2.4</b>	25	3.9	1.8	J
67-64-1	Acetone	<b>6.0</b>	25	13	5.7	J
75-69-4	Trichlorofluoromethane	<b>20</b>	2.4	1.5	0.38	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.0	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	<b>40</b>	2.5	0.81	0.36	
75-15-0	Carbon Disulfide	<b>2.7</b>	4.8	2.6	0.76	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	<b>1.4</b>	4.8	1.5	0.52	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	<b>2.4</b>	2.5	1.5	0.52	J
67-66-3	Chloroform	<b>2.0</b>	2.5	0.81	0.34	J
109-99-9	Tetrahydrofuran (THF)	<b>11</b>	4.8	0.81	0.32	
107-06-2	1,2-Dichloroethane	0.81	2.5	0.81	0.28	U
71-43-2	Benzene	<b>2.0</b>	2.5	0.81	0.37	J
56-23-5	Carbon Tetrachloride	<b>14</b>	2.4	0.81	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-055-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-008

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Topacio De Leon

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00884

Initial Pressure (psig): -2.97 Final Pressure (psig): 7.64

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.7	4.8	1.6	0.71	J
75-27-4	Bromodichloromethane	0.81	2.5	0.81	0.37	U
79-01-6	Trichloroethene	0.81	2.4	0.81	0.34	U
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	5.9	2.5	1.5	0.40	
108-10-1	4-Methyl-2-pentanone	0.81	4.8	0.81	0.35	U
108-88-3	Toluene	17	2.5	0.81	0.31	
591-78-6	2-Hexanone	0.81	4.8	0.81	0.31	U
124-48-1	Dibromochloromethane	0.81	2.5	0.81	0.33	U
106-93-4	1,2-Dibromoethane	0.81	2.5	0.81	0.29	U
127-18-4	Tetrachloroethene	1.1	2.5	0.81	0.33	J
100-41-4	Ethylbenzene	1.6	2.5	0.81	0.36	J
179601-23-1	m,p-Xylenes	9.1	4.8	1.6	0.67	
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	3.1	2.5	0.81	0.37	
108-67-8	1,3,5-Trimethylbenzene	1.3	2.5	0.81	0.37	J
95-63-6	1,2,4-Trimethylbenzene	3.1	2.5	0.81	0.35	
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	12	4.8	1.6	0.67	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01146

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): 0.07 Final Pressure (psig): 7.85

Container Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	4.9	2.0	1.2	0.50	
75-71-8	Dichlorodifluoromethane (CFC 12)	230	2.0	1.2	0.33	
74-87-3	Chloromethane	0.38	2.0	1.2	0.33	J
75-01-4	Vinyl Chloride	0.65	2.0	0.65	0.22	U
106-99-0	1,3-Butadiene	1.2	2.0	1.2	0.34	U
75-00-3	Chloroethane	1.2	2.0	1.2	0.25	U
64-17-5	Ethanol	170	20	3.2	1.4	
67-64-1	Acetone	64	20	10	4.6	
75-69-4	Trichlorofluoromethane	23	2.0	1.2	0.31	
67-63-0	2-Propanol (Isopropyl Alcohol)	11	3.8	2.4	0.84	
75-09-2	Methylene Chloride	8.6	2.0	1.2	0.57	
76-13-1	Trichlorotrifluoroethane	22	2.0	0.65	0.29	
75-15-0	Carbon Disulfide	4.0	3.8	2.1	0.61	
75-34-3	1,1-Dichloroethane	1.3	2.1	1.3	0.30	U
78-93-3	2-Butanone (MEK)	16	3.8	1.2	0.42	
141-78-6	Ethyl Acetate	52	3.8	2.5	1.1	
110-54-3	n-Hexane	7.4	2.0	1.2	0.42	
67-66-3	Chloroform	1.1	2.0	0.65	0.27	J
109-99-9	Tetrahydrofuran (THF)	3.9	3.8	0.65	0.26	
107-06-2	1,2-Dichloroethane	2.3	2.0	0.65	0.23	
71-43-2	Benzene	3.1	2.0	0.65	0.29	
56-23-5	Carbon Tetrachloride	14	2.0	0.65	0.28	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Topacio De Leon

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01146

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): 0.07 Final Pressure (psig): 7.85

Container Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>3.6</b>	3.8	1.3	0.57	<b>J</b>
75-27-4	Bromodichloromethane	0.65	2.0	0.65	0.29	<b>U</b>
79-01-6	Trichloroethene	<b>0.73</b>	2.0	0.65	0.28	<b>J</b>
123-91-1	1,4-Dioxane	0.65	2.0	0.65	0.24	<b>U</b>
142-82-5	n-Heptane	<b>7.7</b>	2.0	1.2	0.33	
108-10-1	4-Methyl-2-pentanone	<b>1.7</b>	3.8	0.65	0.28	<b>J</b>
108-88-3	Toluene	<b>35</b>	2.0	0.65	0.25	
591-78-6	2-Hexanone	0.65	3.8	0.65	0.25	<b>U</b>
124-48-1	Dibromochloromethane	0.65	2.0	0.65	0.27	<b>U</b>
106-93-4	1,2-Dibromoethane	0.65	2.0	0.65	0.24	<b>U</b>
127-18-4	Tetrachloroethene	<b>2.9</b>	2.0	0.65	0.26	
100-41-4	Ethylbenzene	<b>3.2</b>	2.0	0.65	0.29	
179601-23-1	m,p-Xylenes	<b>12</b>	3.8	1.3	0.54	
75-25-2	Bromoform	1.2	2.0	1.2	0.42	<b>U</b>
100-42-5	Styrene	<b>1.1</b>	2.0	1.2	0.33	<b>J</b>
95-47-6	o-Xylene	<b>4.2</b>	2.0	0.65	0.29	
108-67-8	1,3,5-Trimethylbenzene	<b>0.88</b>	2.0	0.65	0.29	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>2.4</b>	2.0	0.65	0.28	
120-82-1	1,2,4-Trichlorobenzene	1.2	3.8	1.2	0.50	<b>U</b>
91-20-3	Naphthalene	1.2	2.0	1.2	0.50	<b>U</b>
1330-20-7	Xylenes, Total	<b>16</b>	3.8	1.3	0.54	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-245-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00495

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -4.55 Final Pressure (psig): 7.65

Container Dilution Factor: 2.20

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.8	2.9	1.8	0.72	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>580</b>	29	18	4.8	D
74-87-3	Chloromethane	1.8	2.9	1.8	0.47	U
75-01-4	Vinyl Chloride	0.94	2.9	0.94	0.31	U
106-99-0	1,3-Butadiene	1.8	2.9	1.8	0.48	U
75-00-3	Chloroethane	1.8	2.9	1.8	0.36	U
64-17-5	Ethanol	<b>2.9</b>	29	4.6	2.0	J
67-64-1	Acetone	15	29	15	6.6	U
75-69-4	Trichlorofluoromethane	<b>64</b>	2.8	1.8	0.45	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.5	5.5	3.5	1.2	U
75-09-2	Methylene Chloride	1.8	2.9	1.8	0.83	U
76-13-1	Trichlorotrifluoroethane	<b>35</b>	2.9	0.94	0.42	
75-15-0	Carbon Disulfide	<b>9.5</b>	5.5	3.0	0.88	
75-34-3	1,1-Dichloroethane	1.8	3.0	1.8	0.43	U
78-93-3	2-Butanone (MEK)	<b>1.6</b>	5.5	1.8	0.61	J
141-78-6	Ethyl Acetate	<b>4.0</b>	5.5	3.6	1.5	J
110-54-3	n-Hexane	<b>2.5</b>	2.9	1.8	0.61	J
67-66-3	Chloroform	<b>6.6</b>	2.9	0.94	0.39	
109-99-9	Tetrahydrofuran (THF)	<b>80</b>	5.5	0.94	0.37	
107-06-2	1,2-Dichloroethane	0.94	2.9	0.94	0.32	U
71-43-2	Benzene	<b>2.3</b>	2.9	0.94	0.42	J
56-23-5	Carbon Tetrachloride	<b>49</b>	2.8	0.94	0.41	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-245-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-010

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Wida Ang

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SS00495

Initial Pressure (psig): -4.55 Final Pressure (psig): 7.65

Container Dilution Factor: 2.20

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1.9</b>	5.5	1.9	0.83	<b>J</b>
75-27-4	Bromodichloromethane	0.94	2.9	0.94	0.42	<b>U</b>
79-01-6	Trichloroethene	<b>0.73</b>	2.8	0.94	0.40	<b>J</b>
123-91-1	1,4-Dioxane	0.94	2.9	0.94	0.35	<b>U</b>
142-82-5	n-Heptane	<b>5.6</b>	2.9	1.8	0.47	
108-10-1	4-Methyl-2-pentanone	0.94	5.5	0.94	0.40	<b>U</b>
108-88-3	Toluene	<b>14</b>	2.9	0.94	0.36	
591-78-6	2-Hexanone	0.94	5.5	0.94	0.36	<b>U</b>
124-48-1	Dibromochloromethane	0.94	2.9	0.94	0.39	<b>U</b>
106-93-4	1,2-Dibromoethane	0.94	2.9	0.94	0.34	<b>U</b>
127-18-4	Tetrachloroethene	0.94	2.9	0.94	0.38	<b>U</b>
100-41-4	Ethylbenzene	<b>1.2</b>	2.9	0.94	0.41	<b>J</b>
179601-23-1	m,p-Xylenes	<b>6.6</b>	5.5	1.9	0.77	
75-25-2	Bromoform	1.8	2.9	1.8	0.61	<b>U</b>
100-42-5	Styrene	1.8	2.9	1.8	0.47	<b>U</b>
95-47-6	o-Xylene	<b>2.2</b>	2.9	0.94	0.42	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.84</b>	2.9	0.94	0.42	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>2.0</b>	2.9	0.94	0.41	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.8	5.5	1.8	0.72	<b>U</b>
91-20-3	Naphthalene	1.7	2.9	1.7	0.72	<b>U</b>
1330-20-7	Xylenes, Total	<b>8.8</b>	5.5	1.9	0.77	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00501

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.40 Liter(s)

0.025 Liter(s)

Initial Pressure (psig): -3.81 Final Pressure (psig): 8.70

Container Dilution Factor: 2.15

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	32	2.8	1.7	0.70	
75-71-8	Dichlorodifluoromethane (CFC 12)	4,800	45	28	7.5	D
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	U
75-01-4	Vinyl Chloride	0.91	2.8	0.91	0.31	U
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	U
64-17-5	Ethanol	8.3	28	4.5	2.0	J
67-64-1	Acetone	15	28	15	6.5	J
75-69-4	Trichlorofluoromethane	730	44	28	7.0	D
67-63-0	2-Propanol (Isopropyl Alcohol)	3.4	5.4	3.4	1.2	U
75-09-2	Methylene Chloride	1.7	2.8	1.7	0.81	U
76-13-1	Trichlorotrifluoroethane	320	2.8	0.91	0.41	
75-15-0	Carbon Disulfide	7.0	5.4	2.9	0.86	
75-34-3	1,1-Dichloroethane	1.8	2.9	1.8	0.42	U
78-93-3	2-Butanone (MEK)	2.6	5.4	1.7	0.59	J
141-78-6	Ethyl Acetate	13	5.4	3.5	1.5	
110-54-3	n-Hexane	2.9	2.8	1.7	0.59	
67-66-3	Chloroform	1.2	2.8	0.91	0.38	J
109-99-9	Tetrahydrofuran (THF)	3.1	5.4	0.91	0.36	J
107-06-2	1,2-Dichloroethane	0.91	2.8	0.91	0.32	U
71-43-2	Benzene	1.9	2.8	0.91	0.41	J
56-23-5	Carbon Tetrachloride	11	2.7	0.91	0.40	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-011

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Wida Ang

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.025 Liter(s)

Container ID: 1SS00501

Initial Pressure (psig): -3.81 Final Pressure (psig): 8.70

Container Dilution Factor: 2.15

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>130</b>	5.4	1.8	0.81	
75-27-4	Bromodichloromethane	0.91	2.8	0.91	0.41	<b>U</b>
79-01-6	Trichloroethene	<b>0.45</b>	2.7	0.91	0.39	<b>J</b>
123-91-1	1,4-Dioxane	0.91	2.8	0.91	0.34	<b>U</b>
142-82-5	n-Heptane	<b>4.2</b>	2.8	1.7	0.46	
108-10-1	4-Methyl-2-pentanone	0.91	5.4	0.91	0.39	<b>U</b>
108-88-3	Toluene	<b>10</b>	2.8	0.91	0.35	
591-78-6	2-Hexanone	0.91	5.4	0.91	0.35	<b>U</b>
124-48-1	Dibromochloromethane	0.91	2.8	0.91	0.38	<b>U</b>
106-93-4	1,2-Dibromoethane	0.91	2.8	0.91	0.33	<b>U</b>
127-18-4	Tetrachloroethene	<b>14</b>	2.8	0.91	0.37	
100-41-4	Ethylbenzene	<b>0.95</b>	2.8	0.91	0.40	<b>J</b>
179601-23-1	m,p-Xylenes	<b>4.6</b>	5.4	1.8	0.75	<b>J</b>
75-25-2	Bromoform	1.7	2.8	1.7	0.59	<b>U</b>
100-42-5	Styrene	1.7	2.8	1.7	0.46	<b>U</b>
95-47-6	o-Xylene	<b>1.9</b>	2.8	0.91	0.41	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.59</b>	2.8	0.91	0.41	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>1.3</b>	2.8	0.91	0.40	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	1.7	5.4	1.7	0.70	<b>U</b>
91-20-3	Naphthalene	1.7	2.8	1.7	0.70	<b>U</b>
1330-20-7	Xylenes, Total	<b>6.5</b>	5.4	1.8	0.75	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SV131-450-204  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P2006072-012

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Wida Ang  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00495

Date Collected: 10/19/20  
 Date Received: 10/26/20  
 Date Analyzed: 11/9/20  
 Volume(s) Analyzed: 0.0015 Liter(s)

Initial Pressure (psig): -2.96 Final Pressure (psig): 7.60

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	410	660	410	160	U
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>6,400</b>	660	410	110	
74-87-3	Chloromethane	410	660	410	110	U
75-01-4	Vinyl Chloride	220	670	220	72	U
106-99-0	1,3-Butadiene	410	660	410	110	U
75-00-3	Chloroethane	410	660	410	84	U
64-17-5	Ethanol	<b>520</b>	6,700	1,100	470	J
67-64-1	Acetone	3,400	6,600	3,400	1,500	U
75-69-4	Trichlorofluoromethane	<b>1,000</b>	650	410	100	
67-63-0	2-Propanol (Isopropyl Alcohol)	800	1,300	800	280	U
75-09-2	Methylene Chloride	410	660	410	190	U
76-13-1	Trichlorotrifluoroethane	<b>520</b>	670	220	96	J
75-15-0	Carbon Disulfide	<b>310</b>	1,300	680	200	J
75-34-3	1,1-Dichloroethane	420	680	420	99	U
78-93-3	2-Butanone (MEK)	410	1,300	410	140	U
141-78-6	Ethyl Acetate	820	1,300	820	350	U
110-54-3	n-Hexane	<b>520</b>	660	410	140	J
67-66-3	Chloroform	220	670	220	90	U
109-99-9	Tetrahydrofuran (THF)	220	1,300	220	85	U
107-06-2	1,2-Dichloroethane	220	660	220	75	U
71-43-2	Benzene	<b>3,100</b>	660	220	98	
56-23-5	Carbon Tetrachloride	220	650	220	94	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV131-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-012

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Wida Ang

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: 1SC00495

Initial Pressure (psig): -2.96 Final Pressure (psig): 7.60

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1,300</b>	1,300	430	190	
75-27-4	Bromodichloromethane	220	660	220	98	U
79-01-6	Trichloroethene	<b>160</b>	650	220	91	J
123-91-1	1,4-Dioxane	<b>220</b>	660	220	80	J
142-82-5	n-Heptane	<b>820</b>	660	410	110	
108-10-1	4-Methyl-2-pentanone	220	1,300	220	92	U
108-88-3	Toluene	<b>3,300</b>	660	220	82	
591-78-6	2-Hexanone	220	1,300	220	84	U
124-48-1	Dibromochloromethane	220	660	220	89	U
106-93-4	1,2-Dibromoethane	220	660	220	79	U
127-18-4	Tetrachloroethene	<b>330</b>	660	220	87	J
100-41-4	Ethylbenzene	<b>180</b>	660	220	95	J
179601-23-1	m,p-Xylenes	<b>470</b>	1,300	430	180	J
75-25-2	Bromoform	410	670	410	140	U
100-42-5	Styrene	410	660	410	110	U
95-47-6	o-Xylene	<b>210</b>	670	220	98	J
108-67-8	1,3,5-Trimethylbenzene	<b>130</b>	670	220	98	J
95-63-6	1,2,4-Trimethylbenzene	220	660	220	94	U
120-82-1	1,2,4-Trichlorobenzene	<b>200</b>	1,300	410	160	J
91-20-3	Naphthalene	390	660	390	160	U
1330-20-7	Xylenes, Total	<b>680</b>	1,300	430	180	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

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March 2021

## ALS ENVIRONMENTAL

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE10-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan/Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01028

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.070 Liter(s)

0.035 Liter(s)

Initial Pressure (psig): -3.16 Final Pressure (psig): 7.40

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	14	14	8.8	3.6	J
75-71-8	Dichlorodifluoromethane (CFC 12)	6.9	14	8.8	2.4	J
74-87-3	Chloromethane	49	14	8.8	2.4	
75-01-4	Vinyl Chloride	3.2	15	4.7	1.6	J
106-99-0	1,3-Butadiene	8.8	14	8.8	2.4	U
75-00-3	Chloroethane	8.8	14	8.8	1.8	U
64-17-5	Ethanol	23	150	23	10	U
67-64-1	Acetone	74	140	74	33	U
75-69-4	Trichlorofluoromethane	2.9	14	8.8	2.2	J
67-63-0	2-Propanol (Isopropyl Alcohol)	17	27	17	6.0	U
75-09-2	Methylene Chloride	8.8	14	8.8	4.1	U
76-13-1	Trichlorotrifluoroethane	1,100	15	4.7	2.1	
75-15-0	Carbon Disulfide	31	27	15	4.4	
75-34-3	1,1-Dichloroethane	9.1	15	9.1	2.1	U
78-93-3	2-Butanone (MEK)	5.8	27	8.8	3.0	J
141-78-6	Ethyl Acetate	18	27	18	7.7	U
110-54-3	n-Hexane	160	14	8.8	3.0	
67-66-3	Chloroform	5.7	15	4.7	1.9	J
109-99-9	Tetrahydrofuran (THF)	43	27	4.7	1.8	
107-06-2	1,2-Dichloroethane	1.7	14	4.7	1.6	J
71-43-2	Benzene	620	14	4.7	2.1	
56-23-5	Carbon Tetrachloride	16	14	4.7	2.0	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE10-410-204

ALS Project ID: P2006072

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006072-013

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan/Wida Ang

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.070 Liter(s)

Test Notes:

0.035 Liter(s)

Container ID: 1SC01028

Initial Pressure (psig): -3.16 Final Pressure (psig): 7.40

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	57	27	9.3	4.1	
75-27-4	Bromodichloromethane	4.7	14	4.7	2.1	U
79-01-6	Trichloroethene	31	14	4.7	2.0	
123-91-1	1,4-Dioxane	4.7	14	4.7	1.7	U
142-82-5	n-Heptane	64	14	8.8	2.3	
108-10-1	4-Methyl-2-pentanone	4.7	27	4.7	2.0	U
108-88-3	Toluene	2,800	29	9.3	3.6	D
591-78-6	2-Hexanone	4.7	27	4.7	1.8	U
124-48-1	Dibromochloromethane	4.7	14	4.7	1.9	U
106-93-4	1,2-Dibromoethane	4.7	14	4.7	1.7	U
127-18-4	Tetrachloroethene	11	14	4.7	1.9	J
100-41-4	Ethylbenzene	55	14	4.7	2.1	
179601-23-1	m,p-Xylenes	210	27	9.3	3.8	
75-25-2	Bromoform	8.8	15	8.8	3.0	U
100-42-5	Styrene	8.8	14	8.8	2.4	U
95-47-6	o-Xylene	53	15	4.7	2.1	
108-67-8	1,3,5-Trimethylbenzene	5.3	15	4.7	2.1	J
95-63-6	1,2,4-Trimethylbenzene	6.3	14	4.7	2.0	J
120-82-1	1,2,4-Trichlorobenzene	8.8	27	8.8	3.6	U
91-20-3	Naphthalene	8.5	14	8.5	3.6	U
1330-20-7	Xylenes, Total	260	27	9.3	3.8	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE10-410-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-014

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan/Wida Ang

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.080 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: 1SS00910

Initial Pressure (psig): -3.12 Final Pressure (psig): 7.25

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	14	12	7.6	3.1	
75-71-8	Dichlorodifluoromethane (CFC 12)	6.8	12	7.6	2.1	J
74-87-3	Chloromethane	46	12	7.6	2.0	
75-01-4	Vinyl Chloride	3.2	13	4.0	1.4	J
106-99-0	1,3-Butadiene	7.6	12	7.6	2.1	U
75-00-3	Chloroethane	7.6	12	7.6	1.6	U
64-17-5	Ethanol	20	130	20	8.8	U
67-64-1	Acetone	64	120	64	29	U
75-69-4	Trichlorofluoromethane	3.0	12	7.6	1.9	J
67-63-0	2-Propanol (Isopropyl Alcohol)	15	24	15	5.2	U
75-09-2	Methylene Chloride	7.6	12	7.6	3.6	U
76-13-1	Trichlorotrifluoroethane	1,200	13	4.0	1.8	
75-15-0	Carbon Disulfide	31	24	13	3.8	
75-34-3	1,1-Dichloroethane	7.8	13	7.8	1.9	U
78-93-3	2-Butanone (MEK)	4.2	24	7.6	2.6	J
141-78-6	Ethyl Acetate	15	24	15	6.7	U
110-54-3	n-Hexane	160	12	7.6	2.6	
67-66-3	Chloroform	6.0	13	4.0	1.7	J
109-99-9	Tetrahydrofuran (THF)	47	24	4.0	1.6	
107-06-2	1,2-Dichloroethane	1.7	12	4.0	1.4	J
71-43-2	Benzene	620	12	4.0	1.8	
56-23-5	Carbon Tetrachloride	16	12	4.0	1.8	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE10-410-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-014

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan/Wida Ang

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.080 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: 1SS00910

Initial Pressure (psig): -3.12 Final Pressure (psig): 7.25

Container Dilution Factor: 1.90

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>58</b>	24	8.1	3.6	
75-27-4	Bromodichloromethane	4.0	12	4.0	1.8	<b>U</b>
79-01-6	Trichloroethene	<b>27</b>	12	4.0	1.7	
123-91-1	1,4-Dioxane	4.0	12	4.0	1.5	<b>U</b>
142-82-5	n-Heptane	<b>65</b>	12	7.6	2.0	
108-10-1	4-Methyl-2-pentanone	4.0	24	4.0	1.7	<b>U</b>
108-88-3	Toluene	<b>2,700</b>	49	16	6.2	<b>D</b>
591-78-6	2-Hexanone	4.0	24	4.0	1.6	<b>U</b>
124-48-1	Dibromochloromethane	4.0	12	4.0	1.7	<b>U</b>
106-93-4	1,2-Dibromoethane	4.0	12	4.0	1.5	<b>U</b>
127-18-4	Tetrachloroethene	<b>11</b>	12	4.0	1.6	<b>J</b>
100-41-4	Ethylbenzene	<b>49</b>	12	4.0	1.8	
179601-23-1	m,p-Xylenes	<b>180</b>	24	8.1	3.3	
75-25-2	Bromoform	7.6	13	7.6	2.6	<b>U</b>
100-42-5	Styrene	7.6	12	7.6	2.0	<b>U</b>
95-47-6	o-Xylene	<b>46</b>	13	4.0	1.8	
108-67-8	1,3,5-Trimethylbenzene	<b>4.1</b>	13	4.0	1.8	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>6.5</b>	12	4.0	1.8	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	7.6	24	7.6	3.1	<b>U</b>
91-20-3	Naphthalene	7.4	12	7.4	3.1	<b>U</b>
1330-20-7	Xylenes, Total	<b>230</b>	24	8.1	3.3	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-015

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

Container ID: 1SS00187

Initial Pressure (psig): -4.70 Final Pressure (psig): 7.70

Container Dilution Factor: 2.24

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	91	29	18	7.3	
75-71-8	Dichlorodifluoromethane (CFC 12)	18	29	18	4.9	U
74-87-3	Chloromethane	13	29	18	4.8	J
75-01-4	Vinyl Chloride	9.5	30	9.5	3.2	U
106-99-0	1,3-Butadiene	18	29	18	4.9	U
75-00-3	Chloroethane	18	29	18	3.7	U
64-17-5	Ethanol	46	300	46	21	U
67-64-1	Acetone	150	290	150	67	U
75-69-4	Trichlorofluoromethane	18	29	18	4.5	U
67-63-0	2-Propanol (Isopropyl Alcohol)	35	56	35	12	U
75-09-2	Methylene Chloride	18	29	18	8.4	U
76-13-1	Trichlorotrifluoroethane	12	30	9.5	4.3	J
75-15-0	Carbon Disulfide	20	56	30	9.0	J
75-34-3	1,1-Dichloroethane	18	30	18	4.4	U
78-93-3	2-Butanone (MEK)	18	56	18	6.2	U
141-78-6	Ethyl Acetate	36	56	36	16	U
110-54-3	n-Hexane	1,600	29	18	6.2	
67-66-3	Chloroform	7.1	30	9.5	4.0	J
109-99-9	Tetrahydrofuran (THF)	16	56	9.5	3.8	J
107-06-2	1,2-Dichloroethane	9.5	29	9.5	3.3	U
71-43-2	Benzene	3,400	29	9.5	4.3	
56-23-5	Carbon Tetrachloride	5.9	29	9.5	4.1	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-204

ALS Project ID: P2006072

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006072-015

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

Container ID: 1SS00187

Initial Pressure (psig): -4.70 Final Pressure (psig): 7.70

Container Dilution Factor: 2.24

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>9,600</b>	56	19	8.4	
75-27-4	Bromodichloromethane	9.5	29	9.5	4.3	U
79-01-6	Trichloroethene	9.5	29	9.5	4.0	U
123-91-1	1,4-Dioxane	9.5	29	9.5	3.5	U
142-82-5	n-Heptane	<b>1,400</b>	29	18	4.8	
108-10-1	4-Methyl-2-pentanone	9.5	56	9.5	4.1	U
108-88-3	Toluene	<b>2,900</b>	29	9.5	3.6	
591-78-6	2-Hexanone	9.5	56	9.5	3.7	U
124-48-1	Dibromochloromethane	9.5	29	9.5	3.9	U
106-93-4	1,2-Dibromoethane	9.5	29	9.5	3.5	U
127-18-4	Tetrachloroethene	<b>3.9</b>	29	9.5	3.9	J
100-41-4	Ethylbenzene	<b>130</b>	29	9.5	4.2	
179601-23-1	m,p-Xylenes	<b>2,100</b>	56	19	7.8	
75-25-2	Bromoform	18	30	18	6.2	U
100-42-5	Styrene	18	29	18	4.8	U
95-47-6	o-Xylene	<b>720</b>	30	9.5	4.3	
108-67-8	1,3,5-Trimethylbenzene	<b>210</b>	30	9.5	4.3	
95-63-6	1,2,4-Trimethylbenzene	<b>200</b>	29	9.5	4.1	
120-82-1	1,2,4-Trichlorobenzene	18	56	18	7.3	U
91-20-3	Naphthalene	17	29	17	7.3	U
1330-20-7	Xylenes, Total	<b>2,800</b>	56	19	7.8	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-016

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.015 Liter(s)

Test Notes:

Container ID: 1SC01209

Initial Pressure (psig): -3.23 Final Pressure (psig): 7.99

Container Dilution Factor: 1.98

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	110	69	42	17	
75-71-8	Dichlorodifluoromethane (CFC 12)	42	69	42	11	U
74-87-3	Chloromethane	16	69	42	11	J
75-01-4	Vinyl Chloride	22	70	22	7.5	U
106-99-0	1,3-Butadiene	42	69	42	12	U
75-00-3	Chloroethane	42	69	42	8.7	U
64-17-5	Ethanol	110	700	110	49	U
67-64-1	Acetone	360	690	360	160	U
75-69-4	Trichlorofluoromethane	42	67	42	11	U
67-63-0	2-Propanol (Isopropyl Alcohol)	83	130	83	29	U
75-09-2	Methylene Chloride	42	69	42	20	U
76-13-1	Trichlorotrifluoroethane	14	70	22	10	J
75-15-0	Carbon Disulfide	71	130	71	21	U
75-34-3	1,1-Dichloroethane	44	71	44	10	U
78-93-3	2-Butanone (MEK)	42	130	42	15	U
141-78-6	Ethyl Acetate	86	130	86	37	U
110-54-3	n-Hexane	1,900	69	42	15	
67-66-3	Chloroform	22	70	22	9.4	U
109-99-9	Tetrahydrofuran (THF)	18	130	22	8.8	J
107-06-2	1,2-Dichloroethane	22	69	22	7.8	U
71-43-2	Benzene	3,900	69	22	10	
56-23-5	Carbon Tetrachloride	22	67	22	9.8	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-016

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.015 Liter(s)

Test Notes:

Container ID: 1SC01209

Initial Pressure (psig): -3.23 Final Pressure (psig): 7.99

Container Dilution Factor: 1.98

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>11,000</b>	130	45	20	
75-27-4	Bromodichloromethane	22	69	22	10	U
79-01-6	Trichloroethene	22	67	22	9.5	U
123-91-1	1,4-Dioxane	22	69	22	8.3	U
142-82-5	n-Heptane	<b>1,700</b>	69	42	11	
108-10-1	4-Methyl-2-pentanone	22	130	22	9.6	U
108-88-3	Toluene	<b>3,700</b>	69	22	8.6	
591-78-6	2-Hexanone	22	130	22	8.7	U
124-48-1	Dibromochloromethane	22	69	22	9.2	U
106-93-4	1,2-Dibromoethane	22	69	22	8.2	U
127-18-4	Tetrachloroethene	22	69	22	9.1	U
100-41-4	Ethylbenzene	<b>170</b>	69	22	9.9	
179601-23-1	m,p-Xylenes	<b>2,700</b>	130	45	18	
75-25-2	Bromoform	42	70	42	15	U
100-42-5	Styrene	42	69	42	11	U
95-47-6	o-Xylene	<b>950</b>	70	22	10	
108-67-8	1,3,5-Trimethylbenzene	<b>280</b>	70	22	10	
95-63-6	1,2,4-Trimethylbenzene	<b>250</b>	69	22	9.8	
120-82-1	1,2,4-Trichlorobenzene	42	130	42	17	U
91-20-3	Naphthalene	41	69	41	17	U
1330-20-7	Xylenes, Total	<b>3,600</b>	130	45	18	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE13-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00412

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.00125 Liter(s)

0.00050 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 7.77

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>2,900</b>	850	520	210	
75-71-8	Dichlorodifluoromethane (CFC 12)	520	850	520	140	U
74-87-3	Chloromethane	520	850	520	140	U
75-01-4	Vinyl Chloride	280	870	280	93	U
106-99-0	1,3-Butadiene	520	850	520	140	U
75-00-3	Chloroethane	520	850	520	110	U
64-17-5	Ethanol	1,400	8,700	1,400	610	U
67-64-1	Acetone	4,400	8,500	4,400	2,000	U
75-69-4	Trichlorofluoromethane	520	840	520	130	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,000	1,600	1,000	360	U
75-09-2	Methylene Chloride	520	850	520	250	U
76-13-1	Trichlorotrifluoroethane	<b>230</b>	870	280	120	J
75-15-0	Carbon Disulfide	890	1,600	890	260	U
75-34-3	1,1-Dichloroethane	540	890	540	130	U
78-93-3	2-Butanone (MEK)	520	1,600	520	180	U
141-78-6	Ethyl Acetate	1,100	1,600	1,100	460	U
110-54-3	n-Hexane	<b>160,000</b>	2,100	1,300	450	D
67-66-3	Chloroform	280	870	280	120	U
109-99-9	Tetrahydrofuran (THF)	280	1,600	280	110	U
107-06-2	1,2-Dichloroethane	280	850	280	97	U
71-43-2	Benzene	<b>26,000</b>	850	280	130	
56-23-5	Carbon Tetrachloride	280	840	280	120	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE13-410-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Wida Ang

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00412

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.00125 Liter(s)

0.00050 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 7.77

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>270,000</b>	1,600	560	250	
75-27-4	Bromodichloromethane	280	850	280	130	U
79-01-6	Trichloroethene	<b>300</b>	840	280	120	J
123-91-1	1,4-Dioxane	280	850	280	100	U
142-82-5	n-Heptane	<b>140,000</b>	2,100	1,300	350	D
108-10-1	4-Methyl-2-pentanone	280	1,600	280	120	U
108-88-3	Toluene	<b>4,200</b>	850	280	110	
591-78-6	2-Hexanone	280	1,600	280	110	U
124-48-1	Dibromochloromethane	280	850	280	110	U
106-93-4	1,2-Dibromoethane	280	850	280	100	U
127-18-4	Tetrachloroethene	<b>360</b>	850	280	110	J
100-41-4	Ethylbenzene	<b>210</b>	850	280	120	J
179601-23-1	m,p-Xylenes	<b>690</b>	1,600	560	230	J
75-25-2	Bromoform	520	870	520	180	U
100-42-5	Styrene	520	850	520	140	U
95-47-6	o-Xylene	<b>1,400</b>	870	280	130	
108-67-8	1,3,5-Trimethylbenzene	<b>620</b>	870	280	130	J
95-63-6	1,2,4-Trimethylbenzene	280	850	280	120	U
120-82-1	1,2,4-Trichlorobenzene	520	1,600	520	210	U
91-20-3	Naphthalene	510	850	510	210	U
1330-20-7	Xylenes, Total	<b>2,000</b>	1,600	560	230	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-018

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00888

Initial Pressure (psig): -3.40 Final Pressure (psig): 7.30

Container Dilution Factor: 1.95

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	5.5	2.5	1.6	0.63	
75-71-8	Dichlorodifluoromethane (CFC 12)	4.6	2.5	1.6	0.42	
74-87-3	Chloromethane	1.6	2.5	1.6	0.42	U
75-01-4	Vinyl Chloride	0.83	2.6	0.83	0.28	U
106-99-0	1,3-Butadiene	1.6	2.5	1.6	0.43	U
75-00-3	Chloroethane	1.6	2.5	1.6	0.32	U
64-17-5	Ethanol	4.0	26	4.0	1.8	U
67-64-1	Acetone	13	25	13	5.9	U
75-69-4	Trichlorofluoromethane	28	2.5	1.6	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.1	4.9	3.1	1.1	U
75-09-2	Methylene Chloride	1.6	2.5	1.6	0.73	U
76-13-1	Trichlorotrifluoroethane	76	2.6	0.83	0.37	
75-15-0	Carbon Disulfide	3.7	4.9	2.6	0.78	J
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.38	U
78-93-3	2-Butanone (MEK)	1.6	4.9	1.6	0.54	U
141-78-6	Ethyl Acetate	3.2	4.9	3.2	1.4	U
110-54-3	n-Hexane	3.7	2.5	1.6	0.54	
67-66-3	Chloroform	0.83	2.6	0.83	0.35	U
109-99-9	Tetrahydrofuran (THF)	0.83	4.9	0.83	0.33	U
107-06-2	1,2-Dichloroethane	0.83	2.5	0.83	0.29	U
71-43-2	Benzene	0.58	2.5	0.83	0.38	J
56-23-5	Carbon Tetrachloride	0.83	2.5	0.83	0.36	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-018

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00888

Initial Pressure (psig): -3.40 Final Pressure (psig): 7.30

Container Dilution Factor: 1.95

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>2.1</b>	4.9	1.7	0.73	<b>J</b>
75-27-4	Bromodichloromethane	0.83	2.5	0.83	0.38	<b>U</b>
79-01-6	Trichloroethene	0.83	2.5	0.83	0.35	<b>U</b>
123-91-1	1,4-Dioxane	0.83	2.5	0.83	0.31	<b>U</b>
142-82-5	n-Heptane	<b>9.5</b>	2.5	1.6	0.41	
108-10-1	4-Methyl-2-pentanone	0.83	4.9	0.83	0.36	<b>U</b>
108-88-3	Toluene	<b>2.3</b>	2.5	0.83	0.32	<b>J</b>
591-78-6	2-Hexanone	0.83	4.9	0.83	0.32	<b>U</b>
124-48-1	Dibromochloromethane	0.83	2.5	0.83	0.34	<b>U</b>
106-93-4	1,2-Dibromoethane	0.83	2.5	0.83	0.30	<b>U</b>
127-18-4	Tetrachloroethene	<b>2.9</b>	2.5	0.83	0.34	
100-41-4	Ethylbenzene	0.83	2.5	0.83	0.37	<b>U</b>
179601-23-1	m,p-Xylenes	<b>1.1</b>	4.9	1.7	0.68	<b>J</b>
75-25-2	Bromoform	1.6	2.6	1.6	0.54	<b>U</b>
100-42-5	Styrene	1.6	2.5	1.6	0.42	<b>U</b>
95-47-6	o-Xylene	<b>0.39</b>	2.6	0.83	0.38	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.83	2.6	0.83	0.38	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	0.83	2.5	0.83	0.36	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	1.6	4.9	1.6	0.63	<b>U</b>
91-20-3	Naphthalene	1.5	2.5	1.5	0.63	<b>U</b>
1330-20-7	Xylenes, Total	<b>1.4</b>	4.9	1.7	0.68	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00582

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.00010 Liter(s)

0.000025 Liter(s)

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	4,900	9,900	6,100	2,500	J
75-71-8	Dichlorodifluoromethane (CFC 12)	6,100	9,900	6,100	1,700	U
74-87-3	Chloromethane	6,100	9,900	6,100	1,600	U
75-01-4	Vinyl Chloride	3,200	10,000	3,200	1,100	U
106-99-0	1,3-Butadiene	6,100	9,900	6,100	1,700	U
75-00-3	Chloroethane	6,100	9,900	6,100	1,300	U
64-17-5	Ethanol	16,000	100,000	16,000	7,100	U
67-64-1	Acetone	52,000	99,000	52,000	23,000	U
75-69-4	Trichlorofluoromethane	6,100	9,700	6,100	1,500	U
67-63-0	2-Propanol (Isopropyl Alcohol)	12,000	19,000	12,000	4,200	U
75-09-2	Methylene Chloride	6,100	9,900	6,100	2,900	U
76-13-1	Trichlorotrifluoroethane	2,300	10,000	3,200	1,500	J
75-15-0	Carbon Disulfide	10,000	19,000	10,000	3,100	U
75-34-3	1,1-Dichloroethane	6,300	10,000	6,300	1,500	U
78-93-3	2-Butanone (MEK)	6,100	19,000	6,100	2,100	U
141-78-6	Ethyl Acetate	12,000	19,000	12,000	5,300	U
110-54-3	n-Hexane	3,100,000	40,000	24,000	8,400	D
67-66-3	Chloroform	3,200	10,000	3,200	1,400	U
109-99-9	Tetrahydrofuran (THF)	3,200	19,000	3,200	1,300	U
107-06-2	1,2-Dichloroethane	3,200	9,900	3,200	1,100	U
71-43-2	Benzene	150,000	9,900	3,200	1,500	U
56-23-5	Carbon Tetrachloride	3,200	9,700	3,200	1,400	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-100-204

ALS Project ID: P2006072

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006072-019

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

0.000025 Liter(s)

Container ID: 1SC00582

Initial Pressure (psig): -2.84 Final Pressure (psig): 7.99

Container Dilution Factor: 1.91

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2,900,000	19,000	6,500	2,900	
75-27-4	Bromodichloromethane	3,200	9,900	3,200	1,500	U
79-01-6	Trichloroethene	2,500	9,700	3,200	1,400	J
123-91-1	1,4-Dioxane	3,200	9,900	3,200	1,200	U
142-82-5	n-Heptane	1,000,000	9,900	6,100	1,600	
108-10-1	4-Methyl-2-pentanone	3,200	19,000	3,200	1,400	U
108-88-3	Toluene	140,000	9,900	3,200	1,200	
591-78-6	2-Hexanone	3,200	19,000	3,200	1,300	U
124-48-1	Dibromochloromethane	3,200	9,900	3,200	1,300	U
106-93-4	1,2-Dibromoethane	3,200	9,900	3,200	1,200	U
127-18-4	Tetrachloroethene	4,300	9,900	3,200	1,300	J
100-41-4	Ethylbenzene	11,000	9,900	3,200	1,400	
179601-23-1	m,p-Xylenes	62,000	19,000	6,500	2,700	
75-25-2	Bromoform	6,100	10,000	6,100	2,100	U
100-42-5	Styrene	6,100	9,900	6,100	1,600	U
95-47-6	o-Xylene	21,000	10,000	3,200	1,500	
108-67-8	1,3,5-Trimethylbenzene	6,400	10,000	3,200	1,500	J
95-63-6	1,2,4-Trimethylbenzene	7,400	9,900	3,200	1,400	J
120-82-1	1,2,4-Trichlorobenzene	6,100	19,000	6,100	2,500	U
91-20-3	Naphthalene	5,900	9,900	5,900	2,500	U
1330-20-7	Xylenes, Total	82,000	19,000	6,500	2,700	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

ALS Sample ID: P2006072-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00967

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/9/20

Volume(s) Analyzed: 0.00015 Liter(s)

0.000050 Liter(s)

Initial Pressure (psig): -2.62 Final Pressure (psig): 7.93

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	13,000	6,500	4,000	1,600	
75-71-8	Dichlorodifluoromethane (CFC 12)	4,000	6,500	4,000	1,100	U
74-87-3	Chloromethane	4,000	6,500	4,000	1,100	U
75-01-4	Vinyl Chloride	2,100	6,600	2,100	710	U
106-99-0	1,3-Butadiene	4,000	6,500	4,000	1,100	U
75-00-3	Chloroethane	4,000	6,500	4,000	820	U
64-17-5	Ethanol	10,000	66,000	10,000	4,600	U
67-64-1	Acetone	34,000	65,000	34,000	15,000	U
75-69-4	Trichlorofluoromethane	4,000	6,400	4,000	1,000	U
67-63-0	2-Propanol (Isopropyl Alcohol)	7,900	12,000	7,900	2,700	U
75-09-2	Methylene Chloride	4,000	6,500	4,000	1,900	U
76-13-1	Trichlorotrifluoroethane	1,700	6,600	2,100	950	J
75-15-0	Carbon Disulfide	6,700	12,000	6,700	2,000	U
75-34-3	1,1-Dichloroethane	4,100	6,700	4,100	970	U
78-93-3	2-Butanone (MEK)	4,000	12,000	4,000	1,400	U
141-78-6	Ethyl Acetate	8,100	12,000	8,100	3,500	U
110-54-3	n-Hexane	1,300,000	19,000	12,000	4,100	D
67-66-3	Chloroform	2,100	6,600	2,100	890	U
109-99-9	Tetrahydrofuran (THF)	2,100	12,000	2,100	840	U
107-06-2	1,2-Dichloroethane	2,100	6,500	2,100	740	U
71-43-2	Benzene	91,000	6,500	2,100	960	
56-23-5	Carbon Tetrachloride	2,100	6,400	2,100	920	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-250-204

ALS Project ID: P2006072

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006072-020

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00015 Liter(s)

Test Notes:

0.000050 Liter(s)

Container ID: 1SS00967

Initial Pressure (psig): -2.62 Final Pressure (psig): 7.93

Container Dilution Factor: 1.87

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>1,800,000</b>	12,000	4,200	1,900	
75-27-4	Bromodichloromethane	2,100	6,500	2,100	960	U
79-01-6	Trichloroethene	<b>1,600</b>	6,400	2,100	900	J
123-91-1	1,4-Dioxane	2,100	6,500	2,100	790	U
142-82-5	n-Heptane	<b>1,300,000</b>	19,000	12,000	3,200	D
108-10-1	4-Methyl-2-pentanone	2,100	12,000	2,100	910	U
108-88-3	Toluene	<b>28,000</b>	6,500	2,100	810	
591-78-6	2-Hexanone	2,100	12,000	2,100	820	U
124-48-1	Dibromochloromethane	2,100	6,500	2,100	870	U
106-93-4	1,2-Dibromoethane	2,100	6,500	2,100	770	U
127-18-4	Tetrachloroethene	<b>2,700</b>	6,500	2,100	860	J
100-41-4	Ethylbenzene	<b>2,500</b>	6,500	2,100	940	J
179601-23-1	m,p-Xylenes	<b>2,900</b>	12,000	4,200	1,700	J
75-25-2	Bromoform	4,000	6,600	4,000	1,400	U
100-42-5	Styrene	4,000	6,500	4,000	1,100	U
95-47-6	o-Xylene	<b>5,800</b>	6,600	2,100	960	J
108-67-8	1,3,5-Trimethylbenzene	2,100	6,600	2,100	960	U
95-63-6	1,2,4-Trimethylbenzene	2,100	6,500	2,100	920	U
120-82-1	1,2,4-Trichlorobenzene	4,000	12,000	4,000	1,600	U
91-20-3	Naphthalene	3,900	6,500	3,900	1,600	U
1330-20-7	Xylenes, Total	<b>8,700</b>	12,000	4,200	1,700	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201108-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/8/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201108-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/8/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201109-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/9/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201109-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/9/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/19 - 10/20/20

Analyst: Simon Cao/Lusine Hakobyan/Topacio De Leon/Wida Ang

Date(s) Received: 10/26/20

Sampling Media: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)

Date(s) Analyzed: 11/8 - 11/9/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201108-MB	99	106	102	70-130	
Method Blank	P201109-MB	98	107	104	70-130	
Lab Control Sample	P201108-LCS	98	102	102	70-130	
Lab Control Sample	P201109-LCS	95	103	103	70-130	
Duplicate Lab Control Sample	P201108-DLCS	99	98	104	70-130	
Duplicate Lab Control Sample	P201109-DLCS	96	102	102	70-130	
SV130-050-204	P2006072-001	100	102	103	70-130	
SV130-150-204	P2006072-002	100	101	105	70-130	
SV130-250-204	P2006072-003	98	102	104	70-130	
SV130-350-204	P2006072-004	98	102	106	70-130	
SV130-450-204	P2006072-005	97	102	107	70-130	
SV130-450-604	P2006072-006	98	103	109	70-130	
SV131-025-204	P2006072-007	97	106	108	70-130	
SV131-055-204	P2006072-008	97	107	107	70-130	
SV131-150-204	P2006072-009	97	105	107	70-130	
SV131-450-204	P2006072-010	101	102	106	70-130	
SV131-350-204	P2006072-011	98	100	105	70-130	
SV131-245-204	P2006072-012	99	108	104	70-130	
SVE10-410-204	P2006072-013	99	102	106	70-130	
SVE10-410-604	P2006072-014	101	102	106	70-130	
SVE11-410-204	P2006072-015	101	87	87	70-130	
SVE11-410-204	P2006072-015DUP	100	89	88	70-130	
SVE11-410-604	P2006072-016	101	93	94	70-130	
SVE13-410-204	P2006072-017	100	96	100	70-130	
SV01-050-204	P2006072-018	96	100	107	70-130	
SV01-100-204	P2006072-019	99	100	106	70-130	
SV01-250-204	P2006072-020	100	101	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

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## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201108-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/8/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	210	198	199	94	95	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	187	191	89	91	59-128	2	25	
74-87-3	Chloromethane	206	157	163	76	79	59-132	4	25	
75-01-4	Vinyl Chloride	208	192	195	92	94	64-127	2	25	
106-99-0	1,3-Butadiene	210	191	209	91	100	66-134	9	25	
75-00-3	Chloroethane	204	187	190	92	93	63-127	1	25	
64-17-5	Ethanol	998	920	941	92	94	59-125	2	25	
67-64-1	Acetone	1,030	943	945	92	92	58-128	0	25	
75-69-4	Trichlorofluoromethane	204	192	192	94	94	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	358	375	88	92	52-125	4	25	
75-09-2	Methylene Chloride	208	190	190	91	91	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	214	202	200	94	93	66-126	1	25	
75-15-0	Carbon Disulfide	428	407	412	95	96	57-134	1	25	
75-34-3	1,1-Dichloroethane	212	195	197	92	93	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	415	417	101	101	67-130	0	25	
141-78-6	Ethyl Acetate	422	536	541	127	128	65-128	0.8	25	
110-54-3	n-Hexane	212	218	220	103	104	63-120	1	25	
67-66-3	Chloroform	214	198	199	93	93	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	400	380	384	95	96	64-123	1	25	
107-06-2	1,2-Dichloroethane	208	196	198	94	95	65-128	1	25	
71-43-2	Benzene	204	187	191	92	94	69-119	2	25	
56-23-5	Carbon Tetrachloride	210	193	196	92	93	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201108-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Simon Cao  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/8/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	403	412	97	99	70-117	2	25	
75-27-4	Bromodichloromethane	210	204	209	97	100	72-128	3	25	
79-01-6	Trichloroethene	206	191	195	93	95	71-123	2	25	
123-91-1	1,4-Dioxane	208	201	204	97	98	71-122	1	25	
142-82-5	n-Heptane	210	201	206	96	98	69-123	2	25	
108-10-1	4-Methyl-2-pentanone	416	416	426	100	102	67-130	2	25	
108-88-3	Toluene	206	202	195	98	95	66-119	3	25	
591-78-6	2-Hexanone	404	431	420	107	104	62-128	3	25	
124-48-1	Dibromochloromethane	210	230	222	110	106	70-130	4	25	
106-93-4	1,2-Dibromoethane	208	217	209	104	100	74-122	4	25	
127-18-4	Tetrachloroethene	206	209	201	101	98	66-124	3	25	
100-41-4	Ethylbenzene	206	211	204	102	99	70-124	3	25	
179601-23-1	m,p-Xylenes	412	424	417	103	101	61-134	2	25	
75-25-2	Bromoform	208	219	212	105	102	66-139	3	25	
100-42-5	Styrene	206	230	221	112	107	73-127	5	25	
95-47-6	o-Xylene	206	215	209	104	101	67-125	3	25	
108-67-8	1,3,5-Trimethylbenzene	206	215	216	104	105	67-130	1	25	
95-63-6	1,2,4-Trimethylbenzene	204	232	228	114	112	66-132	2	25	
120-82-1	1,2,4-Trichlorobenzene	388	470	461	121	119	55-142	2	25	
91-20-3	Naphthalene	198	217	215	110	109	57-138	0.9	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201109-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/9/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	210	197	192	94	91	57-136	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	185	183	88	87	59-128	1	25	
74-87-3	Chloromethane	206	148	148	72	72	59-132	0	25	
75-01-4	Vinyl Chloride	208	188	186	90	89	64-127	1	25	
106-99-0	1,3-Butadiene	210	168	170	80	81	66-134	1	25	
75-00-3	Chloroethane	204	185	187	91	92	63-127	1	25	
64-17-5	Ethanol	998	892	908	89	91	59-125	2	25	
67-64-1	Acetone	1,030	904	923	88	90	58-128	2	25	
75-69-4	Trichlorofluoromethane	204	187	190	92	93	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	344	349	84	86	52-125	2	25	
75-09-2	Methylene Chloride	208	186	189	89	91	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	214	197	199	92	93	66-126	1	25	
75-15-0	Carbon Disulfide	428	396	400	93	93	57-134	0	25	
75-34-3	1,1-Dichloroethane	212	190	193	90	91	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	403	409	98	99	67-130	1	25	
141-78-6	Ethyl Acetate	422	515	520	122	123	65-128	0.8	25	
110-54-3	n-Hexane	212	210	211	99	100	63-120	1	25	
67-66-3	Chloroform	214	190	195	89	91	68-123	2	25	
109-99-9	Tetrahydrofuran (THF)	400	364	376	91	94	64-123	3	25	
107-06-2	1,2-Dichloroethane	208	188	191	90	92	65-128	2	25	
71-43-2	Benzene	204	183	187	90	92	69-119	2	25	
56-23-5	Carbon Tetrachloride	210	192	193	91	92	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006072  
 ALS Sample ID: P201109-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Topacio De Leon  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/9/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	398	399		96	96	70-117	0	25
75-27-4	Bromodichloromethane	210	203	203		97	97	72-128	0	25
79-01-6	Trichloroethene	206	189	190		92	92	71-123	0	25
123-91-1	1,4-Dioxane	208	198	199		95	96	71-122	1	25
142-82-5	n-Heptane	210	195	192		93	91	69-123	2	25
108-10-1	4-Methyl-2-pentanone	416	404	394		97	95	67-130	2	25
108-88-3	Toluene	206	200	201		97	98	66-119	1	25
591-78-6	2-Hexanone	404	421	418		104	103	62-128	1	25
124-48-1	Dibromochloromethane	210	228	230		109	110	70-130	0.9	25
106-93-4	1,2-Dibromoethane	208	215	216		103	104	74-122	1	25
127-18-4	Tetrachloroethene	206	207	210		100	102	66-124	2	25
100-41-4	Ethylbenzene	206	208	209		101	101	70-124	0	25
179601-23-1	m,p-Xylenes	412	421	425		102	103	61-134	1	25
75-25-2	Bromoform	208	219	221		105	106	66-139	0.9	25
100-42-5	Styrene	206	226	226		110	110	73-127	0	25
95-47-6	o-Xylene	206	212	213		103	103	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	206	211	218		102	106	67-130	4	25
95-63-6	1,2,4-Trimethylbenzene	204	226	233		111	114	66-132	3	25
120-82-1	1,2,4-Trichlorobenzene	388	452	480		116	124	55-142	7	25
91-20-3	Naphthalene	198	209	227		106	115	57-138	8	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-204

ALS Project ID: P2006072

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006072-015DUP

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

Container ID: 1SS00187

Initial Pressure (psig): -4.70

Final Pressure (psig): 7.70

Container Dilution Factor: 2.24

Compound	Sample Result µg/m <sup>3</sup>	Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
		Sample Result µg/m <sup>3</sup>	Sample Result µg/m <sup>3</sup>				
Propene	91	88	89.5	3	25		
Dichlorodifluoromethane (CFC 12)	ND	ND	-	-	25		
Chloromethane	13	12	12.5	8	25	J	
Vinyl Chloride	ND	ND	-	-	25		
1,3-Butadiene	ND	ND	-	-	25		
Chloroethane	ND	ND	-	-	25		
Ethanol	ND	ND	-	-	25		
Acetone	ND	ND	-	-	25		
Trichlorofluoromethane	ND	ND	-	-	25		
2-Propanol (Isopropyl Alcohol)	ND	ND	-	-	25		
Methylene Chloride	ND	ND	-	-	25		
Trichlorotrifluoroethane	12	11	11.5	9	25	J	
Carbon Disulfide	20	20	20	0	25	J	
1,1-Dichloroethane	ND	ND	-	-	25		
2-Butanone (MEK)	ND	ND	-	-	25		
Ethyl Acetate	ND	ND	-	-	25		
n-Hexane	1,600	1,500	1550	6	25		
Chloroform	7.1	6.8	6.95	4	25	J	
Tetrahydrofuran (THF)	16	16	16	0	25	J	
1,2-Dichloroethane	ND	ND	-	-	25		
Benzene	3,400	3,200	3300	6	25		
Carbon Tetrachloride	5.9	5.8	5.85	2	25	J	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVE11-410-204

ALS Project ID: P2006072

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006072-015DUP

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/9/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

Container ID: 1SS00187

Initial Pressure (psig): -4.70

Final Pressure (psig): 7.70

Container Dilution Factor: 2.24

Compound	Sample Result µg/m <sup>3</sup>	Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
		Sample Result µg/m <sup>3</sup>	Sample Result µg/m <sup>3</sup>				
Cyclohexane	9,600	9,100	9,350	9350	5	25	
Bromodichloromethane	ND	ND	-	-	-	25	
Trichloroethene	ND	ND	-	-	-	25	
1,4-Dioxane	ND	ND	-	-	-	25	
n-Heptane	1,400	1,400	1400	1400	0	25	
4-Methyl-2-pentanone	ND	ND	-	-	-	25	
Toluene	2,900	2,800	2850	2850	4	25	
2-Hexanone	ND	ND	-	-	-	25	
Dibromochloromethane	ND	ND	-	-	-	25	
1,2-Dibromoethane	ND	ND	-	-	-	25	
Tetrachloroethene	3.9	4.0	3.95	3.95	3	25	J
Ethylbenzene	130	130	130	130	0	25	
m,p-Xylenes	2,100	2,000	2050	2050	5	25	
Bromoform	ND	ND	-	-	-	25	
Styrene	ND	ND	-	-	-	25	
o-Xylene	720	710	715	715	1	25	
1,3,5-Trimethylbenzene	210	210	210	210	0	25	
1,2,4-Trimethylbenzene	200	190	195	195	5	25	
1,2,4-Trichlorobenzene	ND	ND	-	-	-	25	
Naphthalene	ND	ND	-	-	-	25	
Xylenes, Total	2,800	2,700	2750	2750	4	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2006072  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 11082001.D  
Analyst: Simon Cao Date Analyzed: 11/8/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 05:33  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	144764	11.22	632629	13.34	130736	17.64
<b>Upper Limit</b>	202670	11.55	885681	13.67	183030	17.97
<b>Lower Limit</b>	86858	10.89	379577	13.01	78442	17.31

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
Sample ID	Description	AREA #	RT #	AREA #
01	Method Blank	142305	11.20	623619
02	Lab Control Sample	162510	11.22	712034
03	Duplicate Lab Control Sample	153154	11.22	662618
04	SV130-050-204	145883	11.20	648384
05	SV130-150-204	142171	11.20	632992
06	SV130-250-204	146772	11.20	643697
07	SV130-350-204	145388	11.20	643580
08	SV130-450-204	153976	11.21	680090
09	SV130-450-204 (Dilution)	172452	11.20	760289
10	SV130-450-604	164424	11.21	730021
11	SV130-450-604 (Dilution)	179543	11.20	797117
12	SV131-025-204	163458	11.20	718519
13	SV131-055-204	164479	11.19	723640
14	SV131-150-204	166092	11.20	733424
15				
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2006072  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 11092001.D  
Analyst: Topacio Zavala Date Analyzed: 11/9/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 02:36  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)						
	AREA	#	RT	#	AREA	#	RT	#			
<b>24 Hour Standard</b>	171058		11.22		766628		13.34		152126		17.64
<b>Upper Limit</b>	239481		11.55		1073279		13.67		212976		17.97
<b>Lower Limit</b>	102635		10.89		459977		13.01		91276		17.31

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)			
Client Sample ID	Description	AREA	RT	AREA	RT	AREA	RT
01	Method Blank	156951	11.20	695816	13.32	133889	17.64
02	Lab Control Sample	168483	11.22	721172	13.34	148123	17.64
03	Duplicate Lab Control Sample	172805	11.22	750704	13.34	146385	17.64
04	SV131-450-204	167590	11.20	744764	13.32	148063	17.64
05	SVE13-410-204 (Dilution)	167875	11.20	760152	13.33	158172	17.64
06	SV131-350-204	167349	11.20	730050	13.32	153312	17.64
07	SV131-245-204	161433	11.20	713949	13.32	149067	17.64
08	SVE10-410-204	173882	11.20	755110	13.32	156690	17.64
09	SVE10-410-604	169671	11.20	749613	13.32	154681	17.64
10	SVE13-410-204	162960	11.20	719407	13.33	165200	17.64
11	SV131-350-204 (Dilution)	171613	11.19	746748	13.32	155565	17.64
12	SV131-245-204 (Dilution)	166562	11.19	726107	13.32	154466	17.64
13	SVE10-410-204 (Dilution)	160193	11.20	711161	13.32	152418	17.64
14	SVE10-410-604 (Dilution)	158855	11.20	690834	13.32	149608	17.64
15	SVE11-410-604	164319	11.20	721790	13.32	172141	17.64
16	SVE11-410-204	171235	11.20	759596	13.33	199900	17.64
17	SVE11-410-204 (Lab Duplicate)	183293	11.20	804334	13.33	210423	17.64
18	SV01-050-204	188387	11.20	816601	13.32	170312	17.64
19	SV01-100-204	173993	11.20	772384	13.33	162767	17.64
20	SV01-100-204 (Dilution)	169935	11.20	743940	13.32	154208	17.64
21	SV01-250-204	169243	11.20	744407	13.33	158611	17.64
22	SV01-250-204 (Dilution)	172721	11.20	747489	13.32	154608	17.64

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

Revised Page

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2655 Park Center Dr., Suite A  
Simi Valley, CA 93065  
T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

November 13, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the samples submitted to our laboratory on October 26, 2020. For your reference, these analyses have been assigned our service request number P2006080.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*Kate Kaneko*  
Nov 13, 2020, 3:52 pm

Kate Kaneko  
Project Manager

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2655 Park Center Dr., Suite A  
 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2006080

## CASE NARRATIVE

The samples were received intact under chain of custody on October 26, 2020 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Manual integrations were performed on the following sample(s) and analyte(s). Refer to the raw data for additional information.

Sample Identification(s)	Analyte(s)
P2006080-006, 018, 022, 028	Acetone
P2006080-007	2-Hexanone
P2006080-008, 010, 011, 013, 019, 023, 024	Propene
P2006080-013	Ethanol
P2006080-023	1,2-Dichloroethane

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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2655 Park Center Dr., Suite A  
 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlabs.com/search-accredited-labs">http://www.pjlabs.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413-19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA016272019-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946
<p>Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at <a href="http://www.alsglobal.com">www.alsglobal.com</a>, or at the accreditation body's website.</p> <p>Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.</p>		

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**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-07**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No.  
**P2006070**

Company Name & Address (Reporting information) EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000		Project Name Kirtland AFB Bulk Fuels Facility		Project Number 62735DM02		ALS Contact: Kate Kaneko 1 (805) 577-2089		Analysis Method TO-15 Project Specific List		Comments e.g. Actual Preservative or specific instructions					
Project Manager / Project Chemist Devon Jerclinovic (505) 715-4248 / Pam Moss (303) 590-9143		P.O. # / Billing Information 17682		Sampler (Print & Sign) 		Flow Controller ID (Bar code # - FC #) NA		Canister Start Pressure "Hg -24.0		Canister End Pressure "Hg/psig -1.5		Sample Volume 1L			
Email Address for Result Reporting Tara Lamond: <a href="mailto:tiamond@eaest.com">tiamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>		Laboratory ID Number		Date Collected		Time Collected		Canister ID (Bar code # - AC, SC, etc.)		Canister Start Pressure "Hg -28.5		Canister End Pressure "Hg/psig -3.5		Sample Volume 1L	
Client Sample ID SV01-300-204		Laboratory ID Number		Date Collected 10/19/2020		Time Collected 0907		Canister ID (Bar code # - AC, SC, etc.) 1SC00597		Canister Start Pressure "Hg -25.0		Canister End Pressure "Hg/psig -3.0		Sample Volume 1L	
Client Sample ID SV02-050-204		Laboratory ID Number		Date Collected 10/19/2020		Time Collected 0939		Canister ID (Bar code # - AC, SC, etc.) 1SS00864		Canister Start Pressure "Hg -25.0		Canister End Pressure "Hg/psig -3.0		Sample Volume 1L	
Client Sample ID SV02-100-204		Laboratory ID Number		Date Collected 10/19/2020		Time Collected 0944		Canister ID (Bar code # - AC, SC, etc.) 1SS00801		Canister Start Pressure "Hg -25.0		Canister End Pressure "Hg/psig -3.0		Sample Volume 1L	
Client Sample ID SV02-150-804		Laboratory ID Number		Date Collected 10/19/2020		Time Collected 0960		Canister ID (Bar code # - AC, SC, etc.) 1SS00228		Canister Start Pressure "Hg -25.0		Canister End Pressure "Hg/psig -5.0		Sample Volume 1L	
Client Sample ID SV02-150-204		Laboratory ID Number		Date Collected 10/19/2020		Time Collected 0960		Canister ID (Bar code # - AC, SC, etc.) 1SC00803		Canister Start Pressure "Hg -25.0		Canister End Pressure "Hg/psig 0.0		Sample Volume 1L	
Client Sample ID SV05-050-804		Laboratory ID Number		Date Collected 10/19/2020		Time Collected 0800		Canister ID (Bar code # - AC, SC, etc.) 1SC00272		Canister Start Pressure "Hg -25.0		Canister End Pressure "Hg/psig -1.5		Sample Volume 1L	
Client Sample ID SV05-050-204		Laboratory ID Number		Date Collected 10/19/2020		Time Collected 0800		Canister ID (Bar code # - AC, SC, etc.) 1SC00878		Canister Start Pressure "Hg -27.0		Canister End Pressure "Hg/psig -2.0		Sample Volume 1L	
Client Sample ID SV05-100-204		Laboratory ID Number		Date Collected 10/19/2020		Time Collected 0804		Canister ID (Bar code # - AC, SC, etc.) 1SS00812		Canister Start Pressure "Hg -27.0		Canister End Pressure "Hg/psig -2.0		Sample Volume 1L	
Client Sample ID SV05-230-204		Laboratory ID Number		Date Collected 10/19/2020		Time Collected 0812		Canister ID (Bar code # - AC, SC, etc.) 1SS00786		Canister Start Pressure "Hg -26.0		Canister End Pressure "Hg/psig -2.5		Sample Volume 1L	
Client Sample ID SV05-290-204		Laboratory ID Number		Date Collected 10/19/2020		Time Collected 0817		Canister ID (Bar code # - AC, SC, etc.) 1SC00251		Canister Start Pressure "Hg -25.5		Canister End Pressure "Hg/psig -1.0		Sample Volume 1L	
FedEx Tracking Number: <b>1028 3402 6267</b>												Associated with Trip blank: SVTB204-03			
Shipping information: Box number <b>4</b> of <b>5</b>															
Report Tier Levels - please select Tier I (Results + QC & Calibration Summaries) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) _____ <input checked="" type="checkbox"/>															
Relinquished by: (Signature) 		Date: <b>10/21/20</b>		Time: <b>1300</b>		Relinquished by: (Signature) 		Date: <b>10/21/20</b>		Time: <b>0945</b>		Chain of Custody Seal: (Circle) INTACT _____ BROKEN _____ ABSENT _____		Project Requirements: QAPP	
Relinquished by: (Signature) 		Date: _____		Time: _____		Relinquished by: (Signature) 		Date: _____		Time: _____		Cooler / Blank Temperature NA °C			

**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

COC #: **COC-SV204-08**

Requested Turnaround Time in Business Days  
 10 Day-Standard

ALS Project No  
**17006070**

ALS Contact: Kate Keneko  
 1 (805) 577-2089

Company Name & Address (Reporting Information)  
 EA Engineering, Science, and Technology, Inc., PBC  
 225 Schilling Circle Suite 400, Hunt Valley, MD  
 (410) 584-7000

Project Name  
 Kirtland AFB Bulk Fuels Facility

Project Number  
 62735DM02

P.O. # / Billing Information  
 17682

Sampler (Print & Sign)  
*Amy Rosebrough*

Project Manager / Project Chemist  
 Devon Jerdinovic (505) 715-4248 / Pam Moss (303) 590-9143

Email Address for Result Reporting  
 tara.lamond@eaest.com  
 amanda.smith@eaest.com  
 pmoss@eaest.com

Client Sample ID

Laboratory ID Number

Date Collected

Time Collected

Canister ID (Bar code # - AC, SC, etc.)

Flow Controller ID (Bar code # - FC #)

Canister Start Pressure "Hg

Canister End Pressure "Hg/psig

Sample Volume

Comments e.g. Actual Preservative or specific instructions

Analysis Method  
 TO-15 Project Specific List

SV06-050-204

1SC00397

10/19/2020

1315

AVG04892

-25.0

-3.0

1L

None

X

SV06-100-804

1SC01195

10/19/2020

1320

NA

-25.5

-2.0

1L

None

X

SV06-100-204

1SS00784

10/19/2020

1320

NA

-26.5

-4.0

1L

None

X

SV06-252-204

1SS00874

10/19/2020

1328

NA

-26.0

-3.5

1L

None

X

SV06-302-204

1SS01028

10/19/2020

1332

AVG04576

-26.0

-3.0

1L

None

X

SV12-150-204

1SC00328

10/19/2020

1102

NA

-26.0

-1.0

1L

None

X

SV12-250-204

1SS00153

10/19/2020

1105

NA

-26.0

-4.0

1L

None

X

SV12-350-204

1SC00484

10/19/2020

1108

NA

-24.0

-2.5

1L

None

X

SV12-450-204

1SC00010

10/19/2020

1112

NA

-24.0

-3.0

1L

None

X

SV13-150-204

1SC00945

10/19/2020

1417

NA

-23.0

-0.5

1L

None

X

FedEX Tracking Number: **1028 3402 6267**

Shipping information: Box number **4** of **5**

Report Tier Levels - please select

Tier I - Results (Default if not specified) \_\_\_\_\_

Tier III (Results + QC & Calibration Summaries) \_\_\_\_\_

Tier IV (Data Validation Package)  X

Relinquished by: (Signature) *Aur*

Date: **10/21/20** Time: **1300**

Relinquished by: (Signature) \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

EDD required: Yes

Type: ERPIMS / EQUIS

Chain of Custody Seal: (Circle) INTACT  BROKEN  ABSENT

Project Requirements: QAPP

Cooler / Blank Temperature NA °C

**Air - Chain of Custody Record & Analytical Service Request**

2655 Park Center Drive, Suite A  
 Simi Valley, California 93085  
 Phone (805) 526-7161  
 Fax (805) 526-7270



COC #: **COC-SV204-09**

Requested Turnaround Time in Business Days: **10 Day-Standard**

ALS Project No: **2006080**

Company Name & Address (Reporting Information)		Project Name								
EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 564-7000		Kirtland AFB Bulk Fuels Facility								
Project Manager / Project Chemist Devon Jeronovic (505) 715-4248 / Pam Moss (303) 590-9143		Project Number 62735DM02								
Email Address for Result Reporting		P.O. # / Billing Information 17882								
Tara Lamond: Amanda Smith: Pam Moss:		Sampler (Print & Sign) <i>Amy Rosebragh</i>								
Email Address for Result Reporting tlamond@eaest.com asmith@eaest.com pmoss@eaest.com										
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Analysis Method	Comments e.g. Actual Preservative or specific instructions
SV13-250-204		10/19/2020	1421	1SS00906	NA	-26.0	-5.0	1L	TO-15 Project Specific List	None
SV13-350-204		10/19/2020	1424	1SC00170	NA	-25.0	-2.0	1L		None
SV13-450-204		10/19/2020	1428	1SS00896	NA	-27.0	-3.5	1L		None
SV15-150-204		10/19/2020	1326	1SS01016	NA	-27.5	-2.5	1L		None
SV15-250-204		10/19/2020	1329	1SS00940	NA	-25.0	-3.5	1L		None
SV15-350-204		10/19/2020	1334	1SS00901	NA	-21.0	-3.5	1L		None
SV15-450-204		10/19/2020	1338	1SS00881	NA	-26.0	-4.0	1L		None
SVTB204-03		10/21/2020	1200	1SC00088	NA	-24.5	-24.5	1L		None
FedEX Tracking Number: <b>1028 3402 6256</b>										
Shipping information: Box number <b>5</b> of <b>5</b>										
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier II (Results + QC Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/> X										
EDD required: Yes Type: <u>ERPIMS/LEQUIS</u>										
Chain of Custody Seal: (Circle) INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>										
Requirements: OAPP										
Relinquished by: (Signature) <i>[Signature]</i> Date: <b>10/21/20</b> Time: <b>1300</b>										
Relinquished by: (Signature) <i>[Signature]</i> Date: _____ Time: _____										
Cooler / Blank Temperature <u>NA</u> °C										

Associated with Trip blank: SVTB204-03

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2006080  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 10/26/20 Date opened: 10/26/20 by: MBERGKAMP

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | Yes                                 | No                       | N/A                                 |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? <u>Side of box</u> Sealing Lid?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2006080-001.01	1.0 L Source Can					
P2006080-002.01	1.0 L Source Silonite Canister					
P2006080-003.01	1.0 L Source Silonite Canister					
P2006080-004.01	1.0 L Source Silonite Canister					
P2006080-005.01	1.0 L Source Can					
P2006080-006.01	1.0 L Source Can					
P2006080-007.01	1.0 L Source Can					
P2006080-008.01	1.0 L Source Silonite Canister					
P2006080-009.01	1.0 L Source Silonite Canister					
P2006080-010.01	1.0 L Source Can					
P2006080-011.01	1.0 L Source Can					
P2006080-012.01	1.0 L Source Can					
P2006080-013.01	1.0 L Source Silonite Canister					
P2006080-014.01	1.0 L Source Silonite Canister					
P2006080-015.01	1.0 L Source Silonite Canister					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)



## ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2006080

Date Received: 10/26/2020  
 Time Received: 09:45

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
SV01-300-204	P2006080-001	Air	10/19/2020	09:07	1SC00597	-2.50	6.15	X
SV02-050-204	P2006080-002	Air	10/19/2020	09:39	1SS00864	-3.57	5.33	X
SV02-100-204	P2006080-003	Air	10/19/2020	09:44	1SS00801	-3.53	5.91	X
SV02-150-604	P2006080-004	Air	10/19/2020	09:50	1SS00226	-4.96	5.76	X
SV02-150-204	P2006080-005	Air	10/19/2020	09:50	1SC00803	-2.40	6.91	X
SV05-050-604	P2006080-006	Air	10/19/2020	08:00	1SC00272	-2.59	6.73	X
SV05-050-204	P2006080-007	Air	10/19/2020	08:00	1SC00878	0.01	6.73	X
SV05-100-204	P2006080-008	Air	10/19/2020	08:04	1SS00812	-0.02	5.27	X
SV05-230-204	P2006080-009	Air	10/19/2020	08:12	1SS00786	-2.52	5.77	X
SV05-290-204	P2006080-010	Air	10/19/2020	08:17	1SC00251	-2.20	6.01	X
SV06-050-204	P2006080-011	Air	10/19/2020	13:15	1SC00397	-4.41	7.22	X
SV06-100-604	P2006080-012	Air	10/19/2020	13:20	1SC01195	-3.58	5.55	X
SV06-100-204	P2006080-013	Air	10/19/2020	13:20	1SS00784	-4.20	4.44	X
SV06-252-204	P2006080-014	Air	10/19/2020	13:28	1SS00874	0.03	6.49	X
SV06-302-204	P2006080-015	Air	10/19/2020	13:32	1SS01028	-3.96	7.42	X
SV12-150-204	P2006080-016	Air	10/19/2020	11:02	1SC00328	-2.68	7.31	X
SV12-250-204	P2006080-017	Air	10/19/2020	11:05	1SS00153	-3.70	6.37	X
SV12-350-204	P2006080-018	Air	10/19/2020	11:08	1SC00484	-3.74	5.33	X
SV12-450-204	P2006080-019	Air	10/19/2020	11:12	1SC00010	-4.26	7.39	X
SV13-150-204	P2006080-020	Air	10/19/2020	14:17	1SC00945	-3.00	7.76	X
SV13-250-204	P2006080-021	Air	10/19/2020	14:21	1SS00906	-4.69	6.73	X
SV13-350-204	P2006080-022	Air	10/19/2020	14:24	1SC00170	-3.48	6.39	X
SV13-450-204	P2006080-023	Air	10/19/2020	14:28	1SS00896	-4.04	6.81	X
SV15-150-204	P2006080-024	Air	10/19/2020	13:26	1SS01016	-3.25	6.19	X
SV15-250-204	P2006080-025	Air	10/19/2020	13:29	1SS00940	-4.33	6.59	X
SV15-350-204	P2006080-026	Air	10/19/2020	13:34	1SS00901	-3.76	5.53	X
SV15-450-204	P2006080-027	Air	10/19/2020	13:38	1SS00881	-4.61	5.51	X
SVTB204-03	P2006080-028	Air	10/21/2020	12:00	1SC00088	-13.83	5.66	X

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-300-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00597

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.0070 Liter(s)

Initial Pressure (psig): -2.50 Final Pressure (psig): 6.15

Container Dilution Factor: 1.71

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	120	74	45	18	
75-71-8	Dichlorodifluoromethane (CFC 12)	16	26	16	4.3	U
74-87-3	Chloromethane	38	62	38	10	U
75-01-4	Vinyl Chloride	16	51	16	5.4	U
106-99-0	1,3-Butadiene	35	57	35	9.7	U
75-00-3	Chloroethane	30	48	30	6.1	U
64-17-5	Ethanol	110	690	110	48	U
67-64-1	Acetone	280	530	280	120	U
75-69-4	Trichlorofluoromethane	14	22	14	3.5	U
67-63-0	2-Propanol (Isopropyl Alcohol)	63	99	63	22	U
75-09-2	Methylene Chloride	23	37	23	11	U
76-13-1	Trichlorotrifluoroethane	140	17	5.4	2.4	
75-15-0	Carbon Disulfide	42	78	42	13	U
75-34-3	1,1-Dichloroethane	20	33	20	4.7	U
78-93-3	2-Butanone (MEK)	27	83	27	9.1	U
141-78-6	Ethyl Acetate	44	68	44	19	U
110-54-3	n-Hexane	2,800	36	22	7.6	
67-66-3	Chloroform	8.5	27	8.5	3.6	U
109-99-9	Tetrahydrofuran (THF)	14	83	14	5.6	U
107-06-2	1,2-Dichloroethane	10	31	10	3.6	U
71-43-2	Benzene	920	40	13	5.9	
56-23-5	Carbon Tetrachloride	6.0	20	6.6	2.9	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-300-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-001

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0070 Liter(s)

Test Notes:

Container ID: 1SC00597

Initial Pressure (psig): -2.50 Final Pressure (psig): 6.15

Container Dilution Factor: 1.71

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	7,000	71	24	11	
75-27-4	Bromodichloromethane	6.2	19	6.2	2.8	U
79-01-6	Trichloroethene	7.2	23	7.7	3.3	J
123-91-1	1,4-Dioxane	12	35	12	4.3	U
142-82-5	n-Heptane	2,000	31	19	5.1	
108-10-1	4-Methyl-2-pentanone	10	60	10	4.4	U
108-88-3	Toluene	38	34	11	4.2	
591-78-6	2-Hexanone	10	60	10	3.9	U
124-48-1	Dibromochloromethane	4.9	15	4.9	2.0	U
106-93-4	1,2-Dibromoethane	5.4	17	5.4	2.0	U
127-18-4	Tetrachloroethene	6.9	19	6.1	2.5	J
100-41-4	Ethylbenzene	9.6	29	9.6	4.2	U
179601-23-1	m,p-Xylenes	31	56	19	7.9	J
75-25-2	Bromoform	7.6	13	7.6	2.6	U
100-42-5	Styrene	18	30	18	4.9	U
95-47-6	o-Xylene	19	30	9.6	4.3	J
108-67-8	1,3,5-Trimethylbenzene	4.6	26	8.5	3.8	J
95-63-6	1,2,4-Trimethylbenzene	5.8	26	8.5	3.7	J
120-82-1	1,2,4-Trichlorobenzene	11	33	11	4.3	U
91-20-3	Naphthalene	14	24	14	6.1	U
1330-20-7	Xylenes, Total	50	56	19	7.9	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00864

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.00125 Liter(s)

Initial Pressure (psig): -3.57 Final Pressure (psig): 5.33

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	270	440	270	110	U
75-71-8	Dichlorodifluoromethane (CFC 12)	93	150	93	25	U
74-87-3	Chloromethane	220	360	220	60	U
75-01-4	Vinyl Chloride	96	300	96	32	U
106-99-0	1,3-Butadiene	210	340	210	57	U
75-00-3	Chloroethane	170	280	170	36	U
64-17-5	Ethanol	630	4,100	630	280	U
67-64-1	Acetone	1,600	3,200	1,600	730	U
75-69-4	Trichlorofluoromethane	82	130	82	21	U
67-63-0	2-Propanol (Isopropyl Alcohol)	370	590	370	130	U
75-09-2	Methylene Chloride	130	220	130	62	U
76-13-1	Trichlorotrifluoroethane	15	100	32	14	J
75-15-0	Carbon Disulfide	250	460	250	74	U
75-34-3	1,1-Dichloroethane	120	190	120	28	U
78-93-3	2-Butanone (MEK)	160	490	160	54	U
141-78-6	Ethyl Acetate	260	400	260	110	U
110-54-3	n-Hexane	130	210	130	45	U
67-66-3	Chloroform	50	160	50	21	U
109-99-9	Tetrahydrofuran (THF)	83	490	83	33	U
107-06-2	1,2-Dichloroethane	61	190	61	21	U
71-43-2	Benzene	77	230	77	35	U
56-23-5	Carbon Tetrachloride	39	120	39	17	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-050-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-002

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00125 Liter(s)

Test Notes:

Container ID: 1SS00864

Initial Pressure (psig): -3.57 Final Pressure (psig): 5.33

Container Dilution Factor: 1.80

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	140	420	140	63	U
75-27-4	Bromodichloromethane	37	110	37	17	U
79-01-6	Trichloroethene	21	140	46	19	J
123-91-1	1,4-Dioxane	32	210	68	25	J
142-82-5	n-Heptane	110	180	110	30	U
108-10-1	4-Methyl-2-pentanone	60	350	60	26	U
108-88-3	Toluene	65	200	65	25	U
591-78-6	2-Hexanone	60	350	60	23	U
124-48-1	Dibromochloromethane	29	88	29	12	U
106-93-4	1,2-Dibromoethane	32	97	32	12	U
127-18-4	Tetrachloroethene	30	110	36	15	J
100-41-4	Ethylbenzene	56	170	56	25	U
179601-23-1	m,p-Xylenes	110	330	110	46	U
75-25-2	Bromoform	45	74	45	15	U
100-42-5	Styrene	110	180	110	29	U
95-47-6	o-Xylene	56	180	56	26	U
108-67-8	1,3,5-Trimethylbenzene	50	160	50	23	U
95-63-6	1,2,4-Trimethylbenzene	50	150	50	22	U
120-82-1	1,2,4-Trichlorobenzene	62	190	62	25	U
91-20-3	Naphthalene	85	140	85	36	U
1330-20-7	Xylenes, Total	110	330	110	46	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00801

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.000060 Liter(s)

Initial Pressure (psig): -3.53 Final Pressure (psig): 5.91

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	5,700	9,300	5,700	2,300	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2,000	3,200	2,000	540	U
74-87-3	Chloromethane	4,800	7,800	4,800	1,300	U
75-01-4	Vinyl Chloride	2,100	6,400	2,100	690	U
106-99-0	1,3-Butadiene	4,500	7,300	4,500	1,200	U
75-00-3	Chloroethane	3,700	6,100	3,700	770	U
64-17-5	Ethanol	14,000	87,000	14,000	6,100	U
67-64-1	Acetone	35,000	68,000	35,000	16,000	U
75-69-4	Trichlorofluoromethane	1,800	2,800	1,800	440	U
67-63-0	2-Propanol (Isopropyl Alcohol)	7,900	13,000	7,900	2,800	U
75-09-2	Methylene Chloride	2,800	4,600	2,800	1,300	U
76-13-1	Trichlorotrifluoroethane	680	2,100	680	310	U
75-15-0	Carbon Disulfide	5,300	9,900	5,300	1,600	U
75-34-3	1,1-Dichloroethane	2,500	4,100	2,500	590	U
78-93-3	2-Butanone (MEK)	3,300	10,000	3,300	1,200	U
141-78-6	Ethyl Acetate	5,600	8,600	5,600	2,400	U
110-54-3	n-Hexane	<b>300,000</b>	4,600	2,800	960	
67-66-3	Chloroform	1,100	3,300	1,100	450	U
109-99-9	Tetrahydrofuran (THF)	1,800	10,000	1,800	700	U
107-06-2	1,2-Dichloroethane	1,300	4,000	1,300	450	U
71-43-2	Benzene	<b>120,000</b>	5,000	1,600	740	
56-23-5	Carbon Tetrachloride	830	2,500	830	360	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-100-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-003

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.000060 Liter(s)

Test Notes:

Container ID: 1SS00801

Initial Pressure (psig): -3.53 Final Pressure (psig): 5.91

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	440,000	9,000	3,000	1,300	
75-27-4	Bromodichloromethane	780	2,400	780	350	U
79-01-6	Trichloroethene	490	2,900	980	410	J
123-91-1	1,4-Dioxane	750	4,500	1,500	540	J
142-82-5	n-Heptane	540,000	3,900	2,400	640	
108-10-1	4-Methyl-2-pentanone	1,300	7,500	1,300	550	U
108-88-3	Toluene	470,000	4,300	1,400	530	
591-78-6	2-Hexanone	1,300	7,500	1,300	500	U
124-48-1	Dibromochloromethane	620	1,900	620	250	U
106-93-4	1,2-Dibromoethane	900	2,100	680	250	J
127-18-4	Tetrachloroethene	610	2,400	770	310	J
100-41-4	Ethylbenzene	11,000	3,700	1,200	530	
179601-23-1	m,p-Xylenes	59,000	7,100	2,400	990	
75-25-2	Bromoform	950	1,600	950	330	U
100-42-5	Styrene	2,300	3,800	2,300	620	U
95-47-6	o-Xylene	12,000	3,800	1,200	550	
108-67-8	1,3,5-Trimethylbenzene	1,400	3,300	1,100	480	J
95-63-6	1,2,4-Trimethylbenzene	2,200	3,300	1,100	460	J
120-82-1	1,2,4-Trichlorobenzene	1,300	4,200	1,300	540	U
91-20-3	Naphthalene	1,800	3,100	1,800	760	U
1330-20-7	Xylenes, Total	71,000	7,100	2,400	990	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-150-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00226

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.00010 Liter(s)

0.000040 Liter(s)

Initial Pressure (psig): -4.96 Final Pressure (psig): 5.76

Container Dilution Factor: 2.10

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	3,900	6,300	3,900	1,600	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1,400	2,200	1,400	370	U
74-87-3	Chloromethane	3,300	5,300	3,300	870	U
75-01-4	Vinyl Chloride	1,400	4,400	1,400	470	U
106-99-0	1,3-Butadiene	3,000	4,900	3,000	840	U
75-00-3	Chloroethane	2,500	4,100	2,500	530	U
64-17-5	Ethanol	9,300	59,000	9,300	4,100	U
67-64-1	Acetone	24,000	46,000	24,000	11,000	U
75-69-4	Trichlorofluoromethane	1,200	1,900	1,200	300	U
67-63-0	2-Propanol (Isopropyl Alcohol)	5,400	8,500	5,400	1,900	U
75-09-2	Methylene Chloride	1,900	3,100	1,900	910	U
76-13-1	Trichlorotrifluoroethane	470	1,500	470	210	U
75-15-0	Carbon Disulfide	3,600	6,700	3,600	1,100	U
75-34-3	1,1-Dichloroethane	1,700	2,800	1,700	400	U
78-93-3	2-Butanone (MEK)	2,300	7,100	2,300	780	U
141-78-6	Ethyl Acetate	3,800	5,800	3,800	1,600	U
110-54-3	n-Hexane	<b>580,000</b>	3,100	1,900	660	
67-66-3	Chloroform	730	2,300	730	310	U
109-99-9	Tetrahydrofuran (THF)	1,200	7,100	1,200	480	U
107-06-2	1,2-Dichloroethane	880	2,700	880	310	U
71-43-2	Benzene	<b>220,000</b>	3,400	1,100	510	
56-23-5	Carbon Tetrachloride	570	1,700	570	250	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-150-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-004

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

0.000040 Liter(s)

Container ID: 1SS00226

Initial Pressure (psig): -4.96 Final Pressure (psig): 5.76

Container Dilution Factor: 2.10

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>770,000</b>	6,100	2,100	920	
75-27-4	Bromodichloromethane	530	1,600	530	240	U
79-01-6	Trichloroethene	<b>330</b>	2,000	660	280	J
123-91-1	1,4-Dioxane	990	3,000	990	370	U
142-82-5	n-Heptane	<b>750,000</b>	6,700	4,100	1,100	D
108-10-1	4-Methyl-2-pentanone	870	5,100	870	370	U
108-88-3	Toluene	<b>500,000</b>	2,900	950	360	
591-78-6	2-Hexanone	870	5,100	870	340	U
124-48-1	Dibromochloromethane	420	1,300	420	170	U
106-93-4	1,2-Dibromoethane	<b>240</b>	1,400	460	170	J
127-18-4	Tetrachloroethene	<b>410</b>	1,600	530	210	J
100-41-4	Ethylbenzene	<b>16,000</b>	2,500	820	360	
179601-23-1	m,p-Xylenes	<b>56,000</b>	4,800	1,600	680	
75-25-2	Bromoform	650	1,100	650	220	U
100-42-5	Styrene	1,600	2,600	1,600	420	U
95-47-6	o-Xylene	<b>16,000</b>	2,600	820	370	
108-67-8	1,3,5-Trimethylbenzene	<b>1,500</b>	2,300	730	330	J
95-63-6	1,2,4-Trimethylbenzene	<b>2,000</b>	2,200	730	320	J
120-82-1	1,2,4-Trichlorobenzene	910	2,800	910	370	U
91-20-3	Naphthalene	1,200	2,100	1,200	520	U
1330-20-7	Xylenes, Total	<b>72,000</b>	4,800	1,600	680	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00803

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.000050 Liter(s)

Initial Pressure (psig): -2.40 Final Pressure (psig): 6.91

Container Dilution Factor: 1.76

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	6,500	11,000	6,500	2,700	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2,300	3,700	2,300	620	U
74-87-3	Chloromethane	5,500	8,900	5,500	1,500	U
75-01-4	Vinyl Chloride	2,300	7,300	2,300	790	U
106-99-0	1,3-Butadiene	5,100	8,300	5,100	1,400	U
75-00-3	Chloroethane	4,300	6,900	4,300	880	U
64-17-5	Ethanol	16,000	99,000	16,000	6,900	U
67-64-1	Acetone	40,000	77,000	40,000	18,000	U
75-69-4	Trichlorofluoromethane	2,000	3,200	2,000	510	U
67-63-0	2-Propanol (Isopropyl Alcohol)	9,000	14,000	9,000	3,200	U
75-09-2	Methylene Chloride	3,200	5,300	3,200	1,500	U
76-13-1	Trichlorotrifluoroethane	780	2,400	780	350	U
75-15-0	Carbon Disulfide	6,100	11,000	6,100	1,800	U
75-34-3	1,1-Dichloroethane	2,900	4,700	2,900	680	U
78-93-3	2-Butanone (MEK)	3,800	12,000	3,800	1,300	U
141-78-6	Ethyl Acetate	6,400	9,800	6,400	2,700	U
110-54-3	n-Hexane	<b>480,000</b>	5,200	3,200	1,100	
67-66-3	Chloroform	1,200	3,800	1,200	510	U
109-99-9	Tetrahydrofuran (THF)	2,000	12,000	2,000	800	U
107-06-2	1,2-Dichloroethane	1,500	4,500	1,500	510	U
71-43-2	Benzene	<b>190,000</b>	5,700	1,900	850	
56-23-5	Carbon Tetrachloride	950	2,900	950	410	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-150-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-005

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.000050 Liter(s)

Test Notes:

Container ID: 1SC00803

Initial Pressure (psig): -2.40 Final Pressure (psig): 6.91

Container Dilution Factor: 1.76

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	620,000	10,000	3,500	1,500	
75-27-4	Bromodichloromethane	890	2,700	890	400	U
79-01-6	Trichloroethene	490	3,300	1,100	470	J
123-91-1	1,4-Dioxane	1,700	5,100	1,700	620	U
142-82-5	n-Heptane	740,000	4,500	2,700	730	
108-10-1	4-Methyl-2-pentanone	1,500	8,600	1,500	630	U
108-88-3	Toluene	430,000	4,900	1,600	610	
591-78-6	2-Hexanone	1,500	8,600	1,500	570	U
124-48-1	Dibromochloromethane	700	2,100	700	290	U
106-93-4	1,2-Dibromoethane	780	2,400	780	280	U
127-18-4	Tetrachloroethene	700	2,700	880	360	J
100-41-4	Ethylbenzene	17,000	4,200	1,400	610	
179601-23-1	m,p-Xylenes	58,000	8,100	2,800	1,100	
75-25-2	Bromoform	1,100	1,800	1,100	370	U
100-42-5	Styrene	2,600	4,300	2,600	710	U
95-47-6	o-Xylene	18,000	4,300	1,400	620	
108-67-8	1,3,5-Trimethylbenzene	1,800	3,800	1,200	550	J
95-63-6	1,2,4-Trimethylbenzene	2,600	3,700	1,200	530	J
120-82-1	1,2,4-Trichlorobenzene	1,500	4,700	1,500	620	U
91-20-3	Naphthalene	2,100	3,500	2,100	870	U
1330-20-7	Xylenes, Total	76,000	8,100	2,800	1,100	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00272

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.59 Final Pressure (psig): 6.73

Container Dilution Factor: 1.77

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.7	1.3	0.82	0.33	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.97	0.47	0.29	0.078	
74-87-3	Chloromethane	0.66	1.1	0.69	0.18	J
75-01-4	Vinyl Chloride	0.29	0.92	0.29	0.099	U
106-99-0	1,3-Butadiene	0.64	1.0	0.64	0.18	U
75-00-3	Chloroethane	0.32	0.87	0.54	0.11	J
64-17-5	Ethanol	2.3	12	1.9	0.87	J
67-64-1	Acetone	12	9.7	5.0	2.2	
75-69-4	Trichlorofluoromethane	2.0	0.40	0.25	0.064	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.1	1.8	1.1	0.40	U
75-09-2	Methylene Chloride	0.41	0.66	0.41	0.19	U
76-13-1	Trichlorotrifluoroethane	7.7	0.31	0.098	0.044	
75-15-0	Carbon Disulfide	8.0	1.4	0.77	0.23	
75-34-3	1,1-Dichloroethane	0.36	0.59	0.36	0.085	U
78-93-3	2-Butanone (MEK)	3.0	1.5	0.48	0.17	
141-78-6	Ethyl Acetate	0.80	1.2	0.80	0.34	U
110-54-3	n-Hexane	61	0.65	0.40	0.14	
67-66-3	Chloroform	0.15	0.48	0.15	0.064	J
109-99-9	Tetrahydrofuran (THF)	38	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.57	0.19	0.065	U
71-43-2	Benzene	7.0	0.72	0.24	0.11	
56-23-5	Carbon Tetrachloride	0.16	0.36	0.12	0.052	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-006

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SC00272

Initial Pressure (psig): -2.59 Final Pressure (psig): 6.73

Container Dilution Factor: 1.77

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	51	1.3	0.44	0.19	
75-27-4	Bromodichloromethane	0.11	0.34	0.11	0.051	U
79-01-6	Trichloroethene	0.068	0.42	0.14	0.059	J
123-91-1	1,4-Dioxane	0.21	0.64	0.21	0.077	U
142-82-5	n-Heptane	92	5.6	3.5	0.92	D
108-10-1	4-Methyl-2-pentanone	0.18	1.1	0.18	0.079	U
108-88-3	Toluene	23	0.61	0.20	0.076	
591-78-6	2-Hexanone	0.18	1.1	0.18	0.071	U
124-48-1	Dibromochloromethane	0.088	0.27	0.088	0.036	U
106-93-4	1,2-Dibromoethane	0.098	0.30	0.098	0.036	U
127-18-4	Tetrachloroethene	1.3	0.34	0.11	0.045	
100-41-4	Ethylbenzene	0.87	0.53	0.17	0.076	
179601-23-1	m,p-Xylenes	5.4	1.0	0.35	0.14	
75-25-2	Bromoform	0.14	0.23	0.14	0.047	U
100-42-5	Styrene	0.33	0.54	0.33	0.089	U
95-47-6	o-Xylene	2.1	0.54	0.17	0.078	
108-67-8	1,3,5-Trimethylbenzene	0.40	0.48	0.15	0.069	J
95-63-6	1,2,4-Trimethylbenzene	0.26	0.47	0.15	0.067	J
120-82-1	1,2,4-Trichlorobenzene	0.19	0.60	0.19	0.078	U
91-20-3	Naphthalene	0.26	0.44	0.26	0.11	U
1330-20-7	Xylenes, Total	7.5	1.0	0.35	0.14	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-007

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00878

Initial Pressure (psig): 0.01 Final Pressure (psig): 6.73

Container Dilution Factor: 1.46

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.1	1.1	0.68	0.28	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.0	0.38	0.24	0.064	
74-87-3	Chloromethane	0.57	0.92	0.57	0.15	U
75-01-4	Vinyl Chloride	0.24	0.76	0.24	0.081	U
106-99-0	1,3-Butadiene	0.53	0.86	0.53	0.15	U
75-00-3	Chloroethane	0.44	0.72	0.44	0.091	U
64-17-5	Ethanol	11	10	1.6	0.72	
67-64-1	Acetone	7.3	8.0	4.2	1.8	J
75-69-4	Trichlorofluoromethane	2.2	0.33	0.21	0.053	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.50	1.5	0.94	0.33	J
75-09-2	Methylene Chloride	1.6	0.55	0.34	0.16	
76-13-1	Trichlorotrifluoroethane	8.4	0.25	0.081	0.036	
75-15-0	Carbon Disulfide	0.76	1.2	0.63	0.19	J
75-34-3	1,1-Dichloroethane	0.30	0.49	0.30	0.070	U
78-93-3	2-Butanone (MEK)	1.6	1.2	0.40	0.14	
141-78-6	Ethyl Acetate	1.1	1.0	0.66	0.28	
110-54-3	n-Hexane	0.15	0.54	0.33	0.11	J
67-66-3	Chloroform	0.13	0.40	0.13	0.053	U
109-99-9	Tetrahydrofuran (THF)	16	1.2	0.21	0.083	
107-06-2	1,2-Dichloroethane	0.15	0.47	0.15	0.053	U
71-43-2	Benzene	0.22	0.59	0.19	0.088	J
56-23-5	Carbon Tetrachloride	0.15	0.30	0.099	0.043	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-050-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-007

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00878

Initial Pressure (psig): 0.01 Final Pressure (psig): 6.73

Container Dilution Factor: 1.46

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.36	1.1	0.36	0.16	U
75-27-4	Bromodichloromethane	0.093	0.28	0.093	0.042	U
79-01-6	Trichloroethene	0.12	0.35	0.12	0.049	U
123-91-1	1,4-Dioxane	0.17	0.53	0.17	0.064	U
142-82-5	n-Heptane	<b>0.21</b>	0.46	0.29	0.076	J
108-10-1	4-Methyl-2-pentanone	0.15	0.89	0.15	0.065	U
108-88-3	Toluene	<b>0.62</b>	0.50	0.16	0.063	J
591-78-6	2-Hexanone	<b>0.29</b>	0.89	0.15	0.059	J
124-48-1	Dibromochloromethane	0.073	0.22	0.073	0.030	U
106-93-4	1,2-Dibromoethane	0.081	0.25	0.081	0.029	U
127-18-4	Tetrachloroethene	<b>0.23</b>	0.28	0.092	0.037	J
100-41-4	Ethylbenzene	<b>0.081</b>	0.44	0.14	0.063	J
179601-23-1	m,p-Xylenes	<b>0.31</b>	0.84	0.29	0.12	J
75-25-2	Bromoform	0.11	0.19	0.11	0.039	U
100-42-5	Styrene	0.27	0.45	0.27	0.074	U
95-47-6	o-Xylene	<b>0.14</b>	0.45	0.14	0.065	J
108-67-8	1,3,5-Trimethylbenzene	0.13	0.39	0.13	0.057	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.11</b>	0.39	0.13	0.055	J
120-82-1	1,2,4-Trichlorobenzene	0.16	0.49	0.16	0.064	U
91-20-3	Naphthalene	0.22	0.36	0.22	0.091	U
1330-20-7	Xylenes, Total	<b>0.45</b>	0.84	0.29	0.12	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-008

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00812

Initial Pressure (psig): -0.02 Final Pressure (psig): 5.27

Container Dilution Factor: 1.36

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.3	1.0	0.63	0.26	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.4	0.36	0.22	0.060	
74-87-3	Chloromethane	0.53	0.86	0.53	0.14	U
75-01-4	Vinyl Chloride	0.23	0.71	0.23	0.076	U
106-99-0	1,3-Butadiene	0.49	0.80	0.49	0.14	U
75-00-3	Chloroethane	0.41	0.67	0.41	0.085	U
64-17-5	Ethanol	13	9.6	1.5	0.67	
67-64-1	Acetone	6.0	7.4	3.9	1.7	J
75-69-4	Trichlorofluoromethane	0.83	0.31	0.19	0.049	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.58	1.4	0.87	0.30	J
75-09-2	Methylene Chloride	2.2	0.51	0.31	0.15	
76-13-1	Trichlorotrifluoroethane	11	0.24	0.075	0.034	
75-15-0	Carbon Disulfide	2.3	1.1	0.59	0.17	
75-34-3	1,1-Dichloroethane	0.28	0.45	0.28	0.066	U
78-93-3	2-Butanone (MEK)	1.3	1.2	0.37	0.13	
141-78-6	Ethyl Acetate	1.1	0.94	0.61	0.26	
110-54-3	n-Hexane	1.2	0.50	0.31	0.11	
67-66-3	Chloroform	0.12	0.37	0.12	0.049	U
109-99-9	Tetrahydrofuran (THF)	0.81	1.2	0.20	0.077	J
107-06-2	1,2-Dichloroethane	0.14	0.44	0.14	0.050	U
71-43-2	Benzene	0.28	0.55	0.18	0.082	J
56-23-5	Carbon Tetrachloride	0.16	0.28	0.092	0.040	J

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-008

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00812

Initial Pressure (psig): -0.02 Final Pressure (psig): 5.27

Container Dilution Factor: 1.36

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>10</b>	0.99	0.34	0.15	
75-27-4	Bromodichloromethane	0.086	0.26	0.086	0.039	U
79-01-6	Trichloroethene	0.11	0.32	0.11	0.046	U
123-91-1	1,4-Dioxane	<b>0.12</b>	0.49	0.16	0.059	J
142-82-5	n-Heptane	<b>0.095</b>	0.43	0.27	0.071	J
108-10-1	4-Methyl-2-pentanone	0.14	0.83	0.14	0.061	U
108-88-3	Toluene	<b>0.38</b>	0.47	0.15	0.059	J
591-78-6	2-Hexanone	0.14	0.83	0.14	0.055	U
124-48-1	Dibromochloromethane	0.068	0.21	0.068	0.028	U
106-93-4	1,2-Dibromoethane	0.075	0.23	0.075	0.027	U
127-18-4	Tetrachloroethene	<b>0.31</b>	0.26	0.085	0.035	
100-41-4	Ethylbenzene	<b>0.067</b>	0.41	0.13	0.059	J
179601-23-1	m,p-Xylenes	<b>0.20</b>	0.78	0.27	0.11	J
75-25-2	Bromoform	0.11	0.17	0.11	0.036	U
100-42-5	Styrene	0.26	0.42	0.26	0.069	U
95-47-6	o-Xylene	<b>0.099</b>	0.42	0.13	0.060	J
108-67-8	1,3,5-Trimethylbenzene	0.12	0.37	0.12	0.053	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.068</b>	0.36	0.12	0.051	J
120-82-1	1,2,4-Trichlorobenzene	0.15	0.46	0.15	0.060	U
91-20-3	Naphthalene	0.20	0.34	0.20	0.084	U
1330-20-7	Xylenes, Total	<b>0.30</b>	0.78	0.27	0.11	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-230-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00786

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.00030 Liter(s)

0.000050 Liter(s)

Initial Pressure (psig): -2.52 Final Pressure (psig): 5.77

Container Dilution Factor: 1.68

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	8,400	1,700	1,000	420	
75-71-8	Dichlorodifluoromethane (CFC 12)	360	590	360	99	U
74-87-3	Chloromethane	870	1,400	870	230	U
75-01-4	Vinyl Chloride	370	1,200	370	120	U
106-99-0	1,3-Butadiene	810	1,300	810	220	U
75-00-3	Chloroethane	680	1,100	680	140	U
64-17-5	Ethanol	2,500	16,000	2,500	1,100	U
67-64-1	Acetone	6,400	12,000	6,400	2,800	U
75-69-4	Trichlorofluoromethane	320	510	320	81	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,400	2,300	1,400	500	U
75-09-2	Methylene Chloride	520	840	520	240	U
76-13-1	Trichlorotrifluoroethane	75	390	120	56	J
75-15-0	Carbon Disulfide	970	1,800	970	290	U
75-34-3	1,1-Dichloroethane	460	750	460	110	U
78-93-3	2-Butanone (MEK)	610	1,900	610	210	U
141-78-6	Ethyl Acetate	1,000	1,600	1,000	440	U
110-54-3	n-Hexane	360,000	5,000	3,100	1,000	D
67-66-3	Chloroform	200	610	200	81	U
109-99-9	Tetrahydrofuran (THF)	320	1,900	320	130	U
107-06-2	1,2-Dichloroethane	240	720	240	82	U
71-43-2	Benzene	12,000	910	300	140	
56-23-5	Carbon Tetrachloride	150	450	150	66	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-230-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-009

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00030 Liter(s)

Test Notes:

0.000050 Liter(s)

Container ID: 1SS00786

Initial Pressure (psig): -2.52 Final Pressure (psig): 5.77

Container Dilution Factor: 1.68

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>350,000</b>	9,800	3,300	1,500	<b>D</b>
75-27-4	Bromodichloromethane	140	430	140	64	<b>U</b>
79-01-6	Trichloroethene	<b>95</b>	530	180	75	<b>J</b>
123-91-1	1,4-Dioxane	260	810	260	98	<b>U</b>
142-82-5	n-Heptane	<b>320,000</b>	4,300	2,600	700	<b>D</b>
108-10-1	4-Methyl-2-pentanone	230	1,400	230	100	<b>U</b>
108-88-3	Toluene	<b>18,000</b>	770	250	97	
591-78-6	2-Hexanone	230	1,400	230	90	<b>U</b>
124-48-1	Dibromochloromethane	110	340	110	46	<b>U</b>
106-93-4	1,2-Dibromoethane	120	380	120	45	<b>U</b>
127-18-4	Tetrachloroethene	<b>110</b>	430	140	57	<b>J</b>
100-41-4	Ethylbenzene	<b>400</b>	670	220	97	<b>J</b>
179601-23-1	m,p-Xylenes	<b>2,100</b>	1,300	440	180	
75-25-2	Bromoform	170	290	170	60	<b>U</b>
100-42-5	Styrene	420	680	420	110	<b>U</b>
95-47-6	o-Xylene	<b>670</b>	680	220	99	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	190	600	190	88	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	190	590	190	84	<b>U</b>
120-82-1	1,2,4-Trichlorobenzene	240	750	240	98	<b>U</b>
91-20-3	Naphthalene	330	560	330	140	<b>U</b>
1330-20-7	Xylenes, Total	<b>2,800</b>	1,300	440	180	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-290-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00251

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.13 Liter(s)

0.030 Liter(s)

Initial Pressure (psig): -2.20 Final Pressure (psig): 6.01

Container Dilution Factor: 1.66

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	10	3.9	2.4	0.96	
75-71-8	Dichlorodifluoromethane (CFC 12)	5.4	1.3	0.83	0.22	
74-87-3	Chloromethane	2.0	3.2	2.0	0.53	U
75-01-4	Vinyl Chloride	0.85	2.6	0.85	0.28	U
106-99-0	1,3-Butadiene	1.8	3.0	1.8	0.51	U
75-00-3	Chloroethane	1.5	2.5	1.5	0.32	U
64-17-5	Ethanol	5.1	36	5.6	2.5	J
67-64-1	Acetone	15	28	15	6.5	U
75-69-4	Trichlorofluoromethane	0.89	1.2	0.73	0.18	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.3	5.2	3.3	1.1	U
75-09-2	Methylene Chloride	1.2	1.9	1.2	0.55	U
76-13-1	Trichlorotrifluoroethane	120	0.88	0.28	0.13	
75-15-0	Carbon Disulfide	2.2	4.1	2.2	0.66	U
75-34-3	1,1-Dichloroethane	1.0	1.7	1.0	0.25	U
78-93-3	2-Butanone (MEK)	1.7	4.3	1.4	0.48	J
141-78-6	Ethyl Acetate	2.3	3.5	2.3	0.99	U
110-54-3	n-Hexane	530	8.2	5.0	1.7	D
67-66-3	Chloroform	0.44	1.4	0.44	0.19	U
109-99-9	Tetrahydrofuran (THF)	0.74	4.3	0.74	0.29	U
107-06-2	1,2-Dichloroethane	0.54	1.6	0.54	0.19	U
71-43-2	Benzene	13	2.1	0.68	0.31	
56-23-5	Carbon Tetrachloride	5.6	1.0	0.35	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-290-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-010

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.13 Liter(s)

Test Notes:

0.030 Liter(s)

Container ID: 1SC00251

Initial Pressure (psig): -2.20 Final Pressure (psig): 6.01

Container Dilution Factor: 1.66

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	650	16	5.5	2.4	D
75-27-4	Bromodichloromethane	0.32	0.99	0.32	0.15	U
79-01-6	Trichloroethene	0.47	1.2	0.40	0.17	J
123-91-1	1,4-Dioxane	0.60	1.8	0.60	0.22	U
142-82-5	n-Heptane	300	7.0	4.3	1.1	D
108-10-1	4-Methyl-2-pentanone	0.53	3.1	0.53	0.23	U
108-88-3	Toluene	14	1.8	0.58	0.22	U
591-78-6	2-Hexanone	0.53	3.1	0.53	0.21	U
124-48-1	Dibromochloromethane	0.25	0.78	0.25	0.10	U
106-93-4	1,2-Dibromoethane	0.28	0.86	0.28	0.10	U
127-18-4	Tetrachloroethene	3.5	0.98	0.32	0.13	U
100-41-4	Ethylbenzene	0.40	1.5	0.50	0.22	J
179601-23-1	m,p-Xylenes	3.8	2.9	1.0	0.41	U
75-25-2	Bromoform	0.40	0.65	0.40	0.14	U
100-42-5	Styrene	0.96	1.6	0.96	0.26	U
95-47-6	o-Xylene	1.5	1.6	0.50	0.23	J
108-67-8	1,3,5-Trimethylbenzene	0.26	1.4	0.44	0.20	J
95-63-6	1,2,4-Trimethylbenzene	0.44	1.4	0.44	0.19	U
120-82-1	1,2,4-Trichlorobenzene	0.55	1.7	0.55	0.22	U
91-20-3	Naphthalene	0.76	1.3	0.76	0.32	U
1330-20-7	Xylenes, Total	5.3	2.9	1.0	0.41	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-011

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/12/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00397

Initial Pressure (psig): -4.41 Final Pressure (psig): 7.22

Container Dilution Factor: 2.13

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.82</b>	1.6	0.99	0.40	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>4.7</b>	0.56	0.34	0.094	
74-87-3	Chloromethane	0.83	1.3	0.83	0.22	<b>U</b>
75-01-4	Vinyl Chloride	0.35	1.1	0.35	0.12	<b>U</b>
106-99-0	1,3-Butadiene	0.77	1.3	0.77	0.21	<b>U</b>
75-00-3	Chloroethane	0.65	1.0	0.65	0.13	<b>U</b>
64-17-5	Ethanol	<b>14</b>	15	2.3	1.0	<b>J</b>
67-64-1	Acetone	<b>13</b>	12	6.1	2.7	
75-69-4	Trichlorofluoromethane	<b>0.80</b>	0.48	0.30	0.077	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.48	<b>U</b>
75-09-2	Methylene Chloride	<b>0.32</b>	0.80	0.49	0.23	<b>J</b>
76-13-1	Trichlorotrifluoroethane	<b>4.2</b>	0.37	0.12	0.053	
75-15-0	Carbon Disulfide	<b>13</b>	1.7	0.92	0.27	
75-34-3	1,1-Dichloroethane	0.43	0.71	0.43	0.10	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>2.0</b>	1.8	0.58	0.20	
141-78-6	Ethyl Acetate	<b>2.2</b>	1.5	0.96	0.41	
110-54-3	n-Hexane	<b>0.26</b>	0.79	0.48	0.17	<b>J</b>
67-66-3	Chloroform	0.19	0.58	0.19	0.077	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	<b>0.57</b>	1.8	0.31	0.12	<b>J</b>
107-06-2	1,2-Dichloroethane	0.22	0.68	0.22	0.078	<b>U</b>
71-43-2	Benzene	<b>0.33</b>	0.87	0.28	0.13	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>1.9</b>	0.43	0.14	0.063	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-011

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/12/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00397

Initial Pressure (psig): -4.41 Final Pressure (psig): 7.22

Container Dilution Factor: 2.13

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.53	1.5	0.53	0.23	U
75-27-4	Bromodichloromethane	0.14	0.41	0.14	0.061	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.071	U
123-91-1	1,4-Dioxane	<b>0.28</b>	0.77	0.25	0.093	J
142-82-5	n-Heptane	<b>0.41</b>	0.68	0.42	0.11	J
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.095	U
108-88-3	Toluene	<b>1.5</b>	0.74	0.24	0.092	J
591-78-6	2-Hexanone	<b>0.19</b>	1.3	0.22	0.086	J
124-48-1	Dibromochloromethane	0.11	0.33	0.11	0.044	U
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	U
127-18-4	Tetrachloroethene	<b>0.22</b>	0.41	0.13	0.054	J
100-41-4	Ethylbenzene	<b>0.12</b>	0.64	0.21	0.092	J
179601-23-1	m,p-Xylenes	<b>0.60</b>	1.2	0.42	0.17	J
75-25-2	Bromoform	0.16	0.27	0.16	0.057	U
100-42-5	Styrene	0.40	0.65	0.40	0.11	U
95-47-6	o-Xylene	<b>0.20</b>	0.65	0.21	0.094	J
108-67-8	1,3,5-Trimethylbenzene	0.18	0.57	0.18	0.083	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.14</b>	0.56	0.18	0.080	J
120-82-1	1,2,4-Trichlorobenzene	0.23	0.72	0.23	0.093	U
91-20-3	Naphthalene	0.32	0.53	0.32	0.13	U
1330-20-7	Xylenes, Total	<b>0.81</b>	1.2	0.42	0.17	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-100-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-012

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01195

Initial Pressure (psig): -3.58 Final Pressure (psig): 5.55

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	59	1.4	0.85	0.34	
75-71-8	Dichlorodifluoromethane (CFC 12)	5.2	0.48	0.29	0.080	
74-87-3	Chloromethane	3.0	1.1	0.71	0.19	
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	U
106-99-0	1,3-Butadiene	0.35	1.1	0.66	0.18	J
75-00-3	Chloroethane	2.4	0.90	0.55	0.11	
64-17-5	Ethanol	13	13	2.0	0.89	J
67-64-1	Acetone	600	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	0.82	0.41	0.26	0.066	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.8	1.9	1.2	0.41	
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	5.4	0.31	0.10	0.045	
75-15-0	Carbon Disulfide	18	1.5	0.79	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	280	1.5	0.49	0.17	
141-78-6	Ethyl Acetate	0.79	1.3	0.82	0.35	J
110-54-3	n-Hexane	1.5	0.67	0.41	0.14	
67-66-3	Chloroform	0.61	0.49	0.16	0.066	
109-99-9	Tetrahydrofuran (THF)	0.90	1.5	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	U
71-43-2	Benzene	1.1	0.74	0.24	0.11	
56-23-5	Carbon Tetrachloride	1.5	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-100-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-012

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01195

Initial Pressure (psig): -3.58 Final Pressure (psig): 5.55

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.95</b>	1.3	0.45	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.35	0.12	0.052	<b>U</b>
79-01-6	Trichloroethene	0.14	0.43	0.14	0.061	<b>U</b>
123-91-1	1,4-Dioxane	0.21	0.66	0.21	0.080	<b>U</b>
142-82-5	n-Heptane	<b>2.2</b>	0.58	0.36	0.094	
108-10-1	4-Methyl-2-pentanone	<b>9.7</b>	1.1	0.19	0.081	
108-88-3	Toluene	<b>5.1</b>	0.63	0.21	0.079	
591-78-6	2-Hexanone	<b>3.0</b>	1.1	0.19	0.073	
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.037	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.22</b>	0.35	0.11	0.046	<b>J</b>
100-41-4	Ethylbenzene	<b>0.38</b>	0.54	0.18	0.079	<b>J</b>
179601-23-1	m,p-Xylenes	<b>2.2</b>	1.0	0.36	0.15	
75-25-2	Bromoform	0.14	0.23	0.14	0.048	<b>U</b>
100-42-5	Styrene	<b>0.29</b>	0.56	0.34	0.092	<b>J</b>
95-47-6	o-Xylene	<b>0.59</b>	0.56	0.18	0.081	
108-67-8	1,3,5-Trimethylbenzene	<b>0.18</b>	0.49	0.16	0.071	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.41</b>	0.48	0.16	0.069	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.080	<b>U</b>
91-20-3	Naphthalene	<b>0.64</b>	0.45	0.27	0.11	
1330-20-7	Xylenes, Total	<b>2.7</b>	1.0	0.36	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00784

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.20 Final Pressure (psig): 4.44

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.45	1.4	0.85	0.34	J
75-71-8	Dichlorodifluoromethane (CFC 12)	5.2	0.48	0.29	0.080	
74-87-3	Chloromethane	0.71	1.1	0.71	0.19	U
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	U
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	0.55	0.90	0.55	0.11	U
64-17-5	Ethanol	2.8	13	2.0	0.89	J
67-64-1	Acetone	7.6	10	5.2	2.3	J
75-69-4	Trichlorofluoromethane	0.84	0.41	0.26	0.066	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	5.4	0.31	0.10	0.045	
75-15-0	Carbon Disulfide	11	1.5	0.79	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	1.3	1.5	0.49	0.17	J
141-78-6	Ethyl Acetate	0.82	1.3	0.82	0.35	U
110-54-3	n-Hexane	0.19	0.67	0.41	0.14	J
67-66-3	Chloroform	0.55	0.49	0.16	0.066	
109-99-9	Tetrahydrofuran (THF)	0.13	1.5	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	U
71-43-2	Benzene	0.33	0.74	0.24	0.11	J
56-23-5	Carbon Tetrachloride	1.7	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-013

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00784

Initial Pressure (psig): -4.20 Final Pressure (psig): 4.44

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.45	1.3	0.45	0.20	U
75-27-4	Bromodichloromethane	0.12	0.35	0.12	0.052	U
79-01-6	Trichloroethene	0.14	0.43	0.14	0.061	U
123-91-1	1,4-Dioxane	<b>0.33</b>	0.66	0.21	0.080	J
142-82-5	n-Heptane	<b>0.33</b>	0.58	0.36	0.094	J
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.081	U
108-88-3	Toluene	<b>1.2</b>	0.63	0.21	0.079	J
591-78-6	2-Hexanone	<b>0.14</b>	1.1	0.19	0.073	J
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.037	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.23</b>	0.35	0.11	0.046	J
100-41-4	Ethylbenzene	<b>0.10</b>	0.54	0.18	0.079	J
179601-23-1	m,p-Xylenes	<b>0.55</b>	1.0	0.36	0.15	J
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.56	0.34	0.092	U
95-47-6	o-Xylene	<b>0.19</b>	0.56	0.18	0.081	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.081</b>	0.49	0.16	0.071	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.16</b>	0.48	0.16	0.069	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.080	U
91-20-3	Naphthalene	<b>0.34</b>	0.45	0.27	0.11	J
1330-20-7	Xylenes, Total	<b>0.74</b>	1.0	0.36	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-252-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00874

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.0015 Liter(s)

0.00030 Liter(s)

Initial Pressure (psig): 0.03 Final Pressure (psig): 6.49

Container Dilution Factor: 1.44

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	170	290	180	73	J
75-71-8	Dichlorodifluoromethane (CFC 12)	62	100	62	17	U
74-87-3	Chloromethane	150	240	150	40	U
75-01-4	Vinyl Chloride	64	200	64	21	U
106-99-0	1,3-Butadiene	140	230	140	38	U
75-00-3	Chloroethane	120	190	120	24	U
64-17-5	Ethanol	420	2,700	420	190	U
67-64-1	Acetone	1,100	2,100	1,100	490	U
75-69-4	Trichlorofluoromethane	55	87	55	14	U
67-63-0	2-Propanol (Isopropyl Alcohol)	250	390	250	86	U
75-09-2	Methylene Chloride	88	140	88	41	U
76-13-1	Trichlorotrifluoroethane	24	66	21	9.5	J
75-15-0	Carbon Disulfide	170	310	170	49	U
75-34-3	1,1-Dichloroethane	78	130	78	19	U
78-93-3	2-Butanone (MEK)	100	330	100	36	U
141-78-6	Ethyl Acetate	170	270	170	75	U
110-54-3	n-Hexane	4,700	140	87	30	
67-66-3	Chloroform	33	100	33	14	U
109-99-9	Tetrahydrofuran (THF)	55	330	55	22	U
107-06-2	1,2-Dichloroethane	40	120	40	14	U
71-43-2	Benzene	66,000	780	260	120	D
56-23-5	Carbon Tetrachloride	26	78	26	11	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-252-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-014

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/12/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

0.00030 Liter(s)

Container ID: 1SS00874

Initial Pressure (psig): 0.03 Final Pressure (psig): 6.49

Container Dilution Factor: 1.44

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	41,000	280	95	42	
75-27-4	Bromodichloromethane	24	75	24	11	U
79-01-6	Trichloroethene	16	91	30	13	J
123-91-1	1,4-Dioxane	45	140	45	17	U
142-82-5	n-Heptane	76	120	75	20	J
108-10-1	4-Methyl-2-pentanone	40	230	40	17	U
108-88-3	Toluene	2,000	130	43	17	
591-78-6	2-Hexanone	40	230	40	15	U
124-48-1	Dibromochloromethane	19	59	19	7.9	U
106-93-4	1,2-Dibromoethane	21	65	21	7.7	U
127-18-4	Tetrachloroethene	21	74	24	9.8	J
100-41-4	Ethylbenzene	29	110	38	17	J
179601-23-1	m,p-Xylenes	280	220	75	31	
75-25-2	Bromoform	30	49	30	10	U
100-42-5	Styrene	72	120	72	19	U
95-47-6	o-Xylene	660	120	38	17	
108-67-8	1,3,5-Trimethylbenzene	36	100	33	15	J
95-63-6	1,2,4-Trimethylbenzene	25	100	33	14	J
120-82-1	1,2,4-Trichlorobenzene	41	130	41	17	U
91-20-3	Naphthalene	57	95	57	24	U
1330-20-7	Xylenes, Total	950	220	75	31	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-302-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01028

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -3.96 Final Pressure (psig): 7.42

Container Dilution Factor: 2.06

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	20	16	9.6	3.9	
75-71-8	Dichlorodifluoromethane (CFC 12)	5.2	5.4	3.3	0.91	J
74-87-3	Chloromethane	8.0	13	8.0	2.1	U
75-01-4	Vinyl Chloride	3.4	11	3.4	1.1	U
106-99-0	1,3-Butadiene	7.5	12	7.5	2.0	U
75-00-3	Chloroethane	6.2	10	6.2	1.3	U
64-17-5	Ethanol	23	140	23	10	U
67-64-1	Acetone	59	110	59	26	U
75-69-4	Trichlorofluoromethane	2.5	4.7	2.9	0.74	J
67-63-0	2-Propanol (Isopropyl Alcohol)	13	21	13	4.6	U
75-09-2	Methylene Chloride	4.7	7.7	4.7	2.2	U
76-13-1	Trichlorotrifluoroethane	18	3.6	1.1	0.51	
75-15-0	Carbon Disulfide	8.9	17	8.9	2.6	U
75-34-3	1,1-Dichloroethane	4.2	6.9	4.2	0.99	U
78-93-3	2-Butanone (MEK)	5.6	17	5.6	1.9	U
141-78-6	Ethyl Acetate	9.3	14	9.3	4.0	U
110-54-3	n-Hexane	93	7.6	4.7	1.6	
67-66-3	Chloroform	2.2	5.6	1.8	0.75	J
109-99-9	Tetrahydrofuran (THF)	3.0	17	3.0	1.2	U
107-06-2	1,2-Dichloroethane	2.2	6.6	2.2	0.75	U
71-43-2	Benzene	24	8.4	2.7	1.2	
56-23-5	Carbon Tetrachloride	8.4	4.2	1.4	0.61	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-302-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-015

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

Container ID: 1SS01028

Initial Pressure (psig): -3.96 Final Pressure (psig): 7.42

Container Dilution Factor: 2.06

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1,800</b>	15	5.1	2.2	
75-27-4	Bromodichloromethane	1.3	4.0	1.3	0.59	U
79-01-6	Trichloroethene	1.6	4.9	1.6	0.69	U
123-91-1	1,4-Dioxane	2.4	7.4	2.4	0.90	U
142-82-5	n-Heptane	4.0	6.5	4.0	1.1	U
108-10-1	4-Methyl-2-pentanone	2.1	13	2.1	0.92	U
108-88-3	Toluene	<b>3.7</b>	7.1	2.3	0.89	J
591-78-6	2-Hexanone	2.1	13	2.1	0.83	U
124-48-1	Dibromochloromethane	1.0	3.1	1.0	0.42	U
106-93-4	1,2-Dibromoethane	<b>3.5</b>	3.5	1.1	0.42	
127-18-4	Tetrachloroethene	1.3	4.0	1.3	0.52	U
100-41-4	Ethylbenzene	2.0	6.2	2.0	0.89	U
179601-23-1	m,p-Xylenes	4.0	12	4.0	1.7	U
75-25-2	Bromoform	1.6	2.6	1.6	0.55	U
100-42-5	Styrene	3.9	6.3	3.9	1.0	U
95-47-6	o-Xylene	<b>2.6</b>	6.3	2.0	0.91	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.97</b>	5.6	1.8	0.81	J
95-63-6	1,2,4-Trimethylbenzene	1.8	5.4	1.8	0.78	U
120-82-1	1,2,4-Trichlorobenzene	2.2	6.9	2.2	0.90	U
91-20-3	Naphthalene	3.0	5.1	3.0	1.3	U
1330-20-7	Xylenes, Total	<b>2.6</b>	12	4.0	1.7	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00328

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.68 Final Pressure (psig): 7.31

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.3	1.4	0.85	0.35	J
75-71-8	Dichlorodifluoromethane (CFC 12)	6.5	0.48	0.30	0.081	
74-87-3	Chloromethane	0.27	1.2	0.71	0.19	J
75-01-4	Vinyl Chloride	2.0	0.95	0.30	0.10	
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	0.56	0.90	0.56	0.11	U
64-17-5	Ethanol	7.5	13	2.0	0.90	J
67-64-1	Acetone	15	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	0.92	0.42	0.26	0.066	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.66	1.9	1.2	0.41	J
75-09-2	Methylene Chloride	0.65	0.69	0.42	0.20	J
76-13-1	Trichlorotrifluoroethane	66	3.2	1.0	0.45	D
75-15-0	Carbon Disulfide	1.6	1.5	0.79	0.24	
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	2.6	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	0.99	1.3	0.83	0.36	J
110-54-3	n-Hexane	0.26	0.68	0.42	0.14	J
67-66-3	Chloroform	0.97	0.50	0.16	0.067	
109-99-9	Tetrahydrofuran (THF)	0.88	1.6	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.19	0.59	0.19	0.067	U
71-43-2	Benzene	0.49	0.74	0.24	0.11	J
56-23-5	Carbon Tetrachloride	5.6	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00328

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.68 Final Pressure (psig): 7.31

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>1.0</b>	1.3	0.45	0.20	<b>J</b>
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	<b>U</b>
79-01-6	Trichloroethene	<b>21</b>	0.43	0.14	0.061	
123-91-1	1,4-Dioxane	0.22	0.66	0.22	0.080	<b>U</b>
142-82-5	n-Heptane	<b>0.14</b>	0.58	0.36	0.095	<b>J</b>
108-10-1	4-Methyl-2-pentanone	<b>0.084</b>	1.1	0.19	0.082	<b>J</b>
108-88-3	Toluene	<b>0.96</b>	0.63	0.21	0.079	
591-78-6	2-Hexanone	<b>0.18</b>	1.1	0.19	0.074	<b>J</b>
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.038	<b>U</b>
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	<b>U</b>
127-18-4	Tetrachloroethene	<b>2.8</b>	0.35	0.11	0.047	
100-41-4	Ethylbenzene	0.18	0.55	0.18	0.079	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.40</b>	1.1	0.36	0.15	<b>J</b>
75-25-2	Bromoform	0.14	0.23	0.14	0.049	<b>U</b>
100-42-5	Styrene	0.34	0.56	0.34	0.092	<b>U</b>
95-47-6	o-Xylene	<b>0.11</b>	0.56	0.18	0.081	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.072	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.21</b>	0.48	0.16	0.069	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.080	<b>U</b>
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	<b>U</b>
1330-20-7	Xylenes, Total	<b>0.51</b>	1.1	0.36	0.15	<b>J</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-017

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00153

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.70 Final Pressure (psig): 6.37

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	11	1.5	0.89	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.7	0.50	0.31	0.084	
74-87-3	Chloromethane	0.74	1.2	0.74	0.20	U
75-01-4	Vinyl Chloride	3.5	1.0	0.32	0.11	
106-99-0	1,3-Butadiene	0.69	1.1	0.69	0.19	U
75-00-3	Chloroethane	0.13	0.95	0.58	0.12	J
64-17-5	Ethanol	0.97	14	2.1	0.94	J
67-64-1	Acetone	5.5	11	5.5	2.4	U
75-69-4	Trichlorofluoromethane	0.99	0.44	0.27	0.069	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	2.0	1.2	0.43	U
75-09-2	Methylene Chloride	0.44	0.72	0.44	0.21	U
76-13-1	Trichlorotrifluoroethane	170	3.3	1.1	0.48	D
75-15-0	Carbon Disulfide	2.9	1.5	0.83	0.25	
75-34-3	1,1-Dichloroethane	0.39	0.64	0.39	0.093	U
78-93-3	2-Butanone (MEK)	0.34	1.6	0.52	0.18	J
141-78-6	Ethyl Acetate	0.87	1.3	0.87	0.37	U
110-54-3	n-Hexane	73	0.71	0.44	0.15	
67-66-3	Chloroform	2.2	0.52	0.17	0.070	
109-99-9	Tetrahydrofuran (THF)	0.81	1.6	0.28	0.11	J
107-06-2	1,2-Dichloroethane	0.20	0.62	0.20	0.070	U
71-43-2	Benzene	170	7.8	2.6	1.2	D
56-23-5	Carbon Tetrachloride	5.9	0.39	0.13	0.056	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-017

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SS00153

Initial Pressure (psig): -3.70 Final Pressure (psig): 6.37

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>230</b>	1.4	0.47	0.21	
75-27-4	Bromodichloromethane	0.12	0.37	0.12	0.055	U
79-01-6	Trichloroethene	<b>21</b>	0.46	0.15	0.064	
123-91-1	1,4-Dioxane	0.23	0.69	0.23	0.084	U
142-82-5	n-Heptane	<b>0.59</b>	0.61	0.37	0.10	J
108-10-1	4-Methyl-2-pentanone	0.20	1.2	0.20	0.086	U
108-88-3	Toluene	<b>18</b>	0.66	0.22	0.083	
591-78-6	2-Hexanone	0.20	1.2	0.20	0.077	U
124-48-1	Dibromochloromethane	0.096	0.29	0.096	0.039	U
106-93-4	1,2-Dibromoethane	0.11	0.32	0.11	0.039	U
127-18-4	Tetrachloroethene	<b>2.6</b>	0.37	0.12	0.049	
100-41-4	Ethylbenzene	<b>0.26</b>	0.57	0.19	0.083	J
179601-23-1	m,p-Xylenes	<b>1.1</b>	1.1	0.38	0.15	J
75-25-2	Bromoform	0.15	0.25	0.15	0.051	U
100-42-5	Styrene	0.36	0.59	0.36	0.097	U
95-47-6	o-Xylene	<b>2.2</b>	0.59	0.19	0.085	
108-67-8	1,3,5-Trimethylbenzene	<b>0.33</b>	0.52	0.17	0.075	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.14</b>	0.51	0.17	0.072	J
120-82-1	1,2,4-Trichlorobenzene	0.21	0.65	0.21	0.084	U
91-20-3	Naphthalene	0.28	0.48	0.28	0.12	U
1330-20-7	Xylenes, Total	<b>3.3</b>	1.1	0.38	0.15	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00484

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.74 Final Pressure (psig): 5.33

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	6.4	1.4	0.85	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.22	0.48	0.30	0.081	J
74-87-3	Chloromethane	0.35	1.2	0.71	0.19	J
75-01-4	Vinyl Chloride	240	9.5	3.0	1.0	D
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	5.4	0.90	0.56	0.11	
64-17-5	Ethanol	26	13	2.0	0.90	
67-64-1	Acetone	14	10	5.2	2.3	
75-69-4	Trichlorofluoromethane	0.073	0.42	0.26	0.066	J
67-63-0	2-Propanol (Isopropyl Alcohol)	0.78	1.9	1.2	0.41	J
75-09-2	Methylene Chloride	0.42	0.69	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	4.1	0.32	0.10	0.045	
75-15-0	Carbon Disulfide	11	1.5	0.79	0.24	
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	2.5	1.6	0.50	0.17	
141-78-6	Ethyl Acetate	0.83	1.3	0.83	0.36	U
110-54-3	n-Hexane	0.77	0.68	0.42	0.14	
67-66-3	Chloroform	0.11	0.50	0.16	0.067	J
109-99-9	Tetrahydrofuran (THF)	0.86	1.6	0.26	0.10	J
107-06-2	1,2-Dichloroethane	0.72	0.59	0.19	0.067	
71-43-2	Benzene	0.41	0.74	0.24	0.11	J
56-23-5	Carbon Tetrachloride	0.61	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00484

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.74 Final Pressure (psig): 5.33

Container Dilution Factor: 1.83

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>2.5</b>	1.3	0.45	0.20	
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.053	U
79-01-6	Trichloroethene	<b>0.13</b>	0.43	0.14	0.061	J
123-91-1	1,4-Dioxane	0.22	0.66	0.22	0.080	U
142-82-5	n-Heptane	<b>0.18</b>	0.58	0.36	0.095	J
108-10-1	4-Methyl-2-pentanone	<b>0.098</b>	1.1	0.19	0.082	J
108-88-3	Toluene	<b>0.52</b>	0.63	0.21	0.079	J
591-78-6	2-Hexanone	<b>0.46</b>	1.1	0.19	0.074	J
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.038	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.46</b>	0.35	0.11	0.047	
100-41-4	Ethylbenzene	0.18	0.55	0.18	0.079	U
179601-23-1	m,p-Xylenes	<b>0.38</b>	1.1	0.36	0.15	J
75-25-2	Bromoform	0.14	0.23	0.14	0.049	U
100-42-5	Styrene	0.34	0.56	0.34	0.092	U
95-47-6	o-Xylene	<b>0.086</b>	0.56	0.18	0.081	J
108-67-8	1,3,5-Trimethylbenzene	0.16	0.49	0.16	0.072	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.12</b>	0.48	0.16	0.069	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.62	0.20	0.080	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	<b>0.47</b>	1.1	0.36	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00010

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -4.26 Final Pressure (psig): 7.39

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.91	1.6	0.99	0.40	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.6	0.56	0.34	0.093	
74-87-3	Chloromethane	0.82	1.3	0.82	0.22	U
75-01-4	Vinyl Chloride	2.8	1.1	0.35	0.12	
106-99-0	1,3-Butadiene	0.77	1.2	0.77	0.21	U
75-00-3	Chloroethane	0.64	1.0	0.64	0.13	U
64-17-5	Ethanol	5.1	15	2.3	1.0	J
67-64-1	Acetone	14	12	6.0	2.7	
75-69-4	Trichlorofluoromethane	0.67	0.48	0.30	0.076	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.47	U
75-09-2	Methylene Chloride	0.37	0.79	0.49	0.23	J
76-13-1	Trichlorotrifluoroethane	140	3.7	1.2	0.53	D
75-15-0	Carbon Disulfide	4.0	1.7	0.92	0.27	
75-34-3	1,1-Dichloroethane	0.43	0.71	0.43	0.10	U
78-93-3	2-Butanone (MEK)	2.0	1.8	0.58	0.20	
141-78-6	Ethyl Acetate	0.96	1.5	0.96	0.41	U
110-54-3	n-Hexane	0.19	0.78	0.48	0.17	J
67-66-3	Chloroform	0.74	0.58	0.18	0.077	
109-99-9	Tetrahydrofuran (THF)	0.29	1.8	0.31	0.12	J
107-06-2	1,2-Dichloroethane	0.22	0.68	0.22	0.077	U
71-43-2	Benzene	2.4	0.86	0.28	0.13	
56-23-5	Carbon Tetrachloride	3.2	0.43	0.14	0.062	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV12-450-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-019

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SC00010

Initial Pressure (psig): -4.26 Final Pressure (psig): 7.39

Container Dilution Factor: 2.12

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.73</b>	1.5	0.52	0.23	<b>J</b>
75-27-4	Bromodichloromethane	0.13	0.41	0.13	0.061	<b>U</b>
79-01-6	Trichloroethene	<b>7.2</b>	0.50	0.17	0.071	
123-91-1	1,4-Dioxane	0.25	0.77	0.25	0.093	<b>U</b>
142-82-5	n-Heptane	0.41	0.67	0.41	0.11	<b>U</b>
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.094	<b>U</b>
108-88-3	Toluene	<b>0.40</b>	0.73	0.24	0.091	<b>J</b>
591-78-6	2-Hexanone	<b>0.21</b>	1.3	0.22	0.085	<b>J</b>
124-48-1	Dibromochloromethane	0.11	0.32	0.11	0.044	<b>U</b>
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	<b>U</b>
127-18-4	Tetrachloroethene	<b>2.0</b>	0.41	0.13	0.054	
100-41-4	Ethylbenzene	0.21	0.63	0.21	0.092	<b>U</b>
179601-23-1	m,p-Xylenes	0.42	1.2	0.42	0.17	<b>U</b>
75-25-2	Bromoform	0.16	0.27	0.16	0.056	<b>U</b>
100-42-5	Styrene	0.40	0.65	0.40	0.11	<b>U</b>
95-47-6	o-Xylene	0.21	0.65	0.21	0.094	<b>U</b>
108-67-8	1,3,5-Trimethylbenzene	0.18	0.57	0.18	0.083	<b>U</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.12</b>	0.56	0.18	0.080	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.23	0.71	0.23	0.093	<b>U</b>
91-20-3	Naphthalene	0.31	0.53	0.31	0.13	<b>U</b>
1330-20-7	Xylenes, Total	0.42	1.2	0.42	0.17	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00945

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.0040 Liter(s)

Initial Pressure (psig): -3.00 Final Pressure (psig): 7.76

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	250	150	89	36	
75-71-8	Dichlorodifluoromethane (CFC 12)	31	50	31	8.4	U
74-87-3	Chloromethane	74	120	74	20	U
75-01-4	Vinyl Chloride	43	100	32	11	J
106-99-0	1,3-Butadiene	69	110	69	19	U
75-00-3	Chloroethane	58	95	58	12	U
64-17-5	Ethanol	150	1,400	210	94	J
67-64-1	Acetone	550	1,100	550	240	U
75-69-4	Trichlorofluoromethane	27	44	27	6.9	U
67-63-0	2-Propanol (Isopropyl Alcohol)	120	200	120	43	J
75-09-2	Methylene Chloride	44	72	44	21	U
76-13-1	Trichlorotrifluoroethane	11	33	11	4.8	U
75-15-0	Carbon Disulfide	83	150	83	25	U
75-34-3	1,1-Dichloroethane	39	64	39	9.3	U
78-93-3	2-Butanone (MEK)	37	160	52	18	J
141-78-6	Ethyl Acetate	87	130	87	37	U
110-54-3	n-Hexane	260	71	44	15	
67-66-3	Chloroform	17	52	17	7.0	U
109-99-9	Tetrahydrofuran (THF)	160	160	28	11	
107-06-2	1,2-Dichloroethane	20	62	20	7.0	U
71-43-2	Benzene	2,700	78	26	12	
56-23-5	Carbon Tetrachloride	13	39	13	5.6	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-020

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/12/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0040 Liter(s)

Test Notes:

Container ID: 1SC00945

Initial Pressure (psig): -3.00 Final Pressure (psig): 7.76

Container Dilution Factor: 1.92

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	12,000	140	47	21	
75-27-4	Bromodichloromethane	12	37	12	5.5	U
79-01-6	Trichloroethene	7.1	46	15	6.4	J
123-91-1	1,4-Dioxane	23	69	23	8.4	U
142-82-5	n-Heptane	180	61	37	10	
108-10-1	4-Methyl-2-pentanone	20	120	20	8.6	U
108-88-3	Toluene	2,700	66	22	8.3	
591-78-6	2-Hexanone	20	120	20	7.7	U
124-48-1	Dibromochloromethane	9.6	29	9.6	3.9	U
106-93-4	1,2-Dibromoethane	19	32	11	3.9	J
127-18-4	Tetrachloroethene	8.7	37	12	4.9	J
100-41-4	Ethylbenzene	91	57	19	8.3	
179601-23-1	m,p-Xylenes	1,400	110	38	15	
75-25-2	Bromoform	15	25	15	5.1	U
100-42-5	Styrene	36	59	36	9.7	U
95-47-6	o-Xylene	900	59	19	8.5	
108-67-8	1,3,5-Trimethylbenzene	480	52	17	7.5	
95-63-6	1,2,4-Trimethylbenzene	350	51	17	7.2	
120-82-1	1,2,4-Trichlorobenzene	21	65	21	8.4	U
91-20-3	Naphthalene	28	48	28	12	U
1330-20-7	Xylenes, Total	2,300	110	38	15	

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J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-021

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00906

Initial Pressure (psig): -4.69 Final Pressure (psig): 6.73

Container Dilution Factor: 2.14

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.0	1.6	1.0	0.40	U
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	0.56	0.35	0.094	
74-87-3	Chloromethane	0.83	1.3	0.83	0.22	U
75-01-4	Vinyl Chloride	2.1	1.1	0.36	0.12	
106-99-0	1,3-Butadiene	0.77	1.3	0.77	0.21	U
75-00-3	Chloroethane	0.65	1.1	0.65	0.13	U
64-17-5	Ethanol	1.5	15	2.4	1.1	J
67-64-1	Acetone	2.9	12	6.1	2.7	J
75-69-4	Trichlorofluoromethane	0.35	0.49	0.30	0.077	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	2.2	1.4	0.48	U
75-09-2	Methylene Chloride	0.49	0.80	0.49	0.23	U
76-13-1	Trichlorotrifluoroethane	0.72	0.37	0.12	0.053	
75-15-0	Carbon Disulfide	1.2	1.7	0.93	0.27	J
75-34-3	1,1-Dichloroethane	0.44	0.71	0.44	0.10	U
78-93-3	2-Butanone (MEK)	0.38	1.8	0.58	0.20	J
141-78-6	Ethyl Acetate	0.97	1.5	0.97	0.42	U
110-54-3	n-Hexane	0.31	0.79	0.49	0.17	J
67-66-3	Chloroform	0.19	0.58	0.19	0.078	U
109-99-9	Tetrahydrofuran (THF)	0.66	1.8	0.31	0.12	J
107-06-2	1,2-Dichloroethane	0.22	0.69	0.22	0.078	U
71-43-2	Benzene	0.62	0.87	0.28	0.13	J
56-23-5	Carbon Tetrachloride	0.27	0.43	0.14	0.063	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-021

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00906

Initial Pressure (psig): -4.69 Final Pressure (psig): 6.73

Container Dilution Factor: 2.14

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>0.60</b>	1.6	0.53	0.23	<b>J</b>
75-27-4	Bromodichloromethane	0.14	0.42	0.14	0.062	<b>U</b>
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	<b>U</b>
123-91-1	1,4-Dioxane	0.25	0.77	0.25	0.094	<b>U</b>
142-82-5	n-Heptane	<b>0.36</b>	0.68	0.42	0.11	<b>J</b>
108-10-1	4-Methyl-2-pentanone	0.22	1.3	0.22	0.095	<b>U</b>
108-88-3	Toluene	<b>1.1</b>	0.74	0.24	0.092	<b>U</b>
591-78-6	2-Hexanone	0.22	1.3	0.22	0.086	<b>U</b>
124-48-1	Dibromochloromethane	0.11	0.33	0.11	0.044	<b>U</b>
106-93-4	1,2-Dibromoethane	0.12	0.36	0.12	0.043	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.16</b>	0.41	0.13	0.054	<b>J</b>
100-41-4	Ethylbenzene	0.21	0.64	0.21	0.092	<b>U</b>
179601-23-1	m,p-Xylenes	<b>0.90</b>	1.2	0.42	0.17	<b>J</b>
75-25-2	Bromoform	0.17	0.27	0.17	0.057	<b>U</b>
100-42-5	Styrene	0.40	0.65	0.40	0.11	<b>U</b>
95-47-6	o-Xylene	<b>0.51</b>	0.65	0.21	0.095	<b>J</b>
108-67-8	1,3,5-Trimethylbenzene	<b>0.39</b>	0.58	0.19	0.084	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.50</b>	0.57	0.19	0.081	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.23	0.72	0.23	0.094	<b>U</b>
91-20-3	Naphthalene	0.32	0.53	0.32	0.13	<b>U</b>
1330-20-7	Xylenes, Total	<b>1.4</b>	1.2	0.42	0.17	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-022

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00170

Initial Pressure (psig): -3.48 Final Pressure (psig): 6.39

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1.5	1.4	0.87	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.1	0.49	0.30	0.083	
74-87-3	Chloromethane	0.73	1.2	0.73	0.20	U
75-01-4	Vinyl Chloride	2.7	0.97	0.31	0.10	
106-99-0	1,3-Butadiene	0.68	1.1	0.68	0.19	U
75-00-3	Chloroethane	0.57	0.93	0.57	0.12	U
64-17-5	Ethanol	8.1	13	2.1	0.92	J
67-64-1	Acetone	19	10	5.3	2.4	
75-69-4	Trichlorofluoromethane	0.45	0.43	0.27	0.068	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.51	1.9	1.2	0.42	J
75-09-2	Methylene Chloride	0.43	0.70	0.43	0.20	U
76-13-1	Trichlorotrifluoroethane	1.4	0.33	0.10	0.047	
75-15-0	Carbon Disulfide	1.0	1.5	0.82	0.24	J
75-34-3	1,1-Dichloroethane	0.38	0.63	0.38	0.091	U
78-93-3	2-Butanone (MEK)	5.2	1.6	0.51	0.18	
141-78-6	Ethyl Acetate	0.85	1.3	0.85	0.37	U
110-54-3	n-Hexane	0.31	0.69	0.43	0.15	J
67-66-3	Chloroform	0.16	0.51	0.16	0.068	U
109-99-9	Tetrahydrofuran (THF)	7.1	1.6	0.27	0.11	
107-06-2	1,2-Dichloroethane	0.072	0.60	0.20	0.069	J
71-43-2	Benzene	0.37	0.77	0.25	0.11	J
56-23-5	Carbon Tetrachloride	0.69	0.38	0.13	0.055	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-022

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00170

Initial Pressure (psig): -3.48 Final Pressure (psig): 6.39

Container Dilution Factor: 1.88

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>2.5</b>	1.4	0.46	0.20	
75-27-4	Bromodichloromethane	0.12	0.36	0.12	0.054	U
79-01-6	Trichloroethene	0.15	0.45	0.15	0.063	U
123-91-1	1,4-Dioxane	<b>1.3</b>	0.68	0.22	0.082	
142-82-5	n-Heptane	<b>0.29</b>	0.60	0.37	0.098	J
108-10-1	4-Methyl-2-pentanone	<b>0.13</b>	1.1	0.20	0.084	J
108-88-3	Toluene	<b>0.77</b>	0.65	0.21	0.081	
591-78-6	2-Hexanone	0.20	1.1	0.20	0.076	U
124-48-1	Dibromochloromethane	0.094	0.29	0.094	0.039	U
106-93-4	1,2-Dibromoethane	0.10	0.32	0.10	0.038	U
127-18-4	Tetrachloroethene	<b>0.18</b>	0.36	0.12	0.048	J
100-41-4	Ethylbenzene	0.18	0.56	0.18	0.081	U
179601-23-1	m,p-Xylenes	<b>0.48</b>	1.1	0.37	0.15	J
75-25-2	Bromoform	0.15	0.24	0.15	0.050	U
100-42-5	Styrene	0.35	0.57	0.35	0.095	U
95-47-6	o-Xylene	<b>0.23</b>	0.57	0.18	0.083	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.16</b>	0.51	0.16	0.074	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.26</b>	0.50	0.16	0.071	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.63	0.20	0.082	U
91-20-3	Naphthalene	0.28	0.47	0.28	0.12	U
1330-20-7	Xylenes, Total	<b>0.71</b>	1.1	0.37	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-023

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00896

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.04 Final Pressure (psig): 6.81

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	8.5	1.5	0.94	0.38	
75-71-8	Dichlorodifluoromethane (CFC 12)	0.81	0.53	0.33	0.089	
74-87-3	Chloromethane	0.78	1.3	0.78	0.21	U
75-01-4	Vinyl Chloride	2.2	1.0	0.34	0.11	
106-99-0	1,3-Butadiene	0.73	1.2	0.73	0.20	U
75-00-3	Chloroethane	0.61	1.0	0.61	0.13	U
64-17-5	Ethanol	1.1	14	2.2	0.99	J
67-64-1	Acetone	5.7	11	5.7	2.6	U
75-69-4	Trichlorofluoromethane	0.41	0.46	0.29	0.073	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	2.1	1.3	0.45	U
75-09-2	Methylene Chloride	0.47	0.76	0.47	0.22	U
76-13-1	Trichlorotrifluoroethane	0.31	0.35	0.11	0.050	J
75-15-0	Carbon Disulfide	1.8	1.6	0.88	0.26	
75-34-3	1,1-Dichloroethane	0.41	0.67	0.41	0.097	U
78-93-3	2-Butanone (MEK)	0.49	1.7	0.55	0.19	J
141-78-6	Ethyl Acetate	0.91	1.4	0.91	0.39	U
110-54-3	n-Hexane	8.2	0.75	0.46	0.16	
67-66-3	Chloroform	0.18	0.55	0.18	0.073	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.7	0.29	0.11	J
107-06-2	1,2-Dichloroethane	0.31	0.65	0.21	0.074	J
71-43-2	Benzene	49	0.82	0.27	0.12	
56-23-5	Carbon Tetrachloride	0.56	0.41	0.14	0.059	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-023

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00896

Initial Pressure (psig): -4.04 Final Pressure (psig): 6.81

Container Dilution Factor: 2.02

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>130</b>	1.5	0.50	0.22	
75-27-4	Bromodichloromethane	0.13	0.39	0.13	0.058	U
79-01-6	Trichloroethene	<b>0.11</b>	0.48	0.16	0.068	J
123-91-1	1,4-Dioxane	0.24	0.73	0.24	0.088	U
142-82-5	n-Heptane	<b>0.23</b>	0.64	0.39	0.10	J
108-10-1	4-Methyl-2-pentanone	0.21	1.2	0.21	0.090	U
108-88-3	Toluene	<b>0.75</b>	0.70	0.23	0.087	
591-78-6	2-Hexanone	0.21	1.2	0.21	0.081	U
124-48-1	Dibromochloromethane	0.10	0.31	0.10	0.042	U
106-93-4	1,2-Dibromoethane	0.11	0.34	0.11	0.041	U
127-18-4	Tetrachloroethene	<b>0.12</b>	0.39	0.13	0.051	J
100-41-4	Ethylbenzene	<b>0.13</b>	0.60	0.20	0.087	J
179601-23-1	m,p-Xylenes	<b>0.64</b>	1.2	0.40	0.16	J
75-25-2	Bromoform	0.16	0.26	0.16	0.054	U
100-42-5	Styrene	0.38	0.62	0.38	0.10	U
95-47-6	o-Xylene	<b>0.94</b>	0.62	0.20	0.090	
108-67-8	1,3,5-Trimethylbenzene	<b>1.1</b>	0.54	0.17	0.079	
95-63-6	1,2,4-Trimethylbenzene	<b>0.18</b>	0.53	0.17	0.076	J
120-82-1	1,2,4-Trichlorobenzene	0.22	0.68	0.22	0.088	U
91-20-3	Naphthalene	0.30	0.50	0.30	0.13	U
1330-20-7	Xylenes, Total	<b>1.6</b>	1.2	0.40	0.16	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-024

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/12/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01016

Initial Pressure (psig): -3.25 Final Pressure (psig): 6.19

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.85	1.4	0.85	0.34	U
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.48	0.29	0.080	
74-87-3	Chloromethane	0.71	1.1	0.71	0.19	U
75-01-4	Vinyl Chloride	0.30	0.94	0.30	0.10	U
106-99-0	1,3-Butadiene	0.66	1.1	0.66	0.18	U
75-00-3	Chloroethane	0.55	0.90	0.55	0.11	U
64-17-5	Ethanol	1.4	13	2.0	0.89	J
67-64-1	Acetone	5.4	10	5.2	2.3	J
75-69-4	Trichlorofluoromethane	0.31	0.41	0.26	0.066	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	1.9	1.2	0.41	U
75-09-2	Methylene Chloride	0.42	0.68	0.42	0.20	U
76-13-1	Trichlorotrifluoroethane	1.4	0.31	0.10	0.045	
75-15-0	Carbon Disulfide	8.0	1.5	0.79	0.23	
75-34-3	1,1-Dichloroethane	0.37	0.61	0.37	0.088	U
78-93-3	2-Butanone (MEK)	0.67	1.5	0.49	0.17	J
141-78-6	Ethyl Acetate	0.82	1.3	0.82	0.35	U
110-54-3	n-Hexane	2.9	0.67	0.41	0.14	
67-66-3	Chloroform	0.15	0.49	0.16	0.066	J
109-99-9	Tetrahydrofuran (THF)	9.3	1.5	0.26	0.10	
107-06-2	1,2-Dichloroethane	0.19	0.58	0.19	0.066	U
71-43-2	Benzene	1.6	0.74	0.24	0.11	
56-23-5	Carbon Tetrachloride	0.42	0.37	0.12	0.054	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-024

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/12/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01016

Initial Pressure (psig): -3.25 Final Pressure (psig): 6.19

Container Dilution Factor: 1.82

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>3.8</b>	1.3	0.45	0.20	
75-27-4	Bromodichloromethane	0.12	0.35	0.12	0.052	U
79-01-6	Trichloroethene	0.14	0.43	0.14	0.061	U
123-91-1	1,4-Dioxane	<b>0.092</b>	0.66	0.21	0.080	J
142-82-5	n-Heptane	<b>4.7</b>	0.58	0.36	0.094	
108-10-1	4-Methyl-2-pentanone	0.19	1.1	0.19	0.081	U
108-88-3	Toluene	<b>1.5</b>	0.63	0.21	0.079	
591-78-6	2-Hexanone	0.19	1.1	0.19	0.073	U
124-48-1	Dibromochloromethane	0.091	0.28	0.091	0.037	U
106-93-4	1,2-Dibromoethane	0.10	0.31	0.10	0.037	U
127-18-4	Tetrachloroethene	<b>0.42</b>	0.35	0.11	0.046	
100-41-4	Ethylbenzene	<b>0.11</b>	0.54	0.18	0.079	J
179601-23-1	m,p-Xylenes	<b>0.26</b>	1.0	0.36	0.15	J
75-25-2	Bromoform	0.14	0.23	0.14	0.048	U
100-42-5	Styrene	0.34	0.56	0.34	0.092	U
95-47-6	o-Xylene	<b>0.35</b>	0.56	0.18	0.081	J
108-67-8	1,3,5-Trimethylbenzene	<b>0.20</b>	0.49	0.16	0.071	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.13</b>	0.48	0.16	0.069	J
120-82-1	1,2,4-Trichlorobenzene	0.20	0.61	0.20	0.080	U
91-20-3	Naphthalene	0.27	0.45	0.27	0.11	U
1330-20-7	Xylenes, Total	<b>0.61</b>	1.0	0.36	0.15	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-025

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00940

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.25 Liter(s)

0.050 Liter(s)

Initial Pressure (psig): -4.33 Final Pressure (psig): 6.59

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	4.3	2.5	1.5	0.62	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.7	0.86	0.53	0.14	
74-87-3	Chloromethane	1.3	2.1	1.3	0.34	U
75-01-4	Vinyl Chloride	0.97	1.7	0.55	0.18	J
106-99-0	1,3-Butadiene	1.2	1.9	1.2	0.33	U
75-00-3	Chloroethane	0.99	1.6	0.99	0.21	U
64-17-5	Ethanol	3.6	23	3.6	1.6	U
67-64-1	Acetone	9.3	18	9.3	4.1	U
75-69-4	Trichlorofluoromethane	0.55	0.74	0.47	0.12	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.1	3.3	2.1	0.73	U
75-09-2	Methylene Chloride	0.76	1.2	0.76	0.35	U
76-13-1	Trichlorotrifluoroethane	4.9	0.57	0.18	0.081	
75-15-0	Carbon Disulfide	1.5	2.6	1.4	0.42	J
75-34-3	1,1-Dichloroethane	0.67	1.1	0.67	0.16	U
78-93-3	2-Butanone (MEK)	0.55	2.8	0.89	0.31	J
141-78-6	Ethyl Acetate	1.5	2.3	1.5	0.64	U
110-54-3	n-Hexane	41	1.2	0.74	0.26	
67-66-3	Chloroform	0.29	0.89	0.29	0.12	U
109-99-9	Tetrahydrofuran (THF)	1.4	2.8	0.47	0.19	J
107-06-2	1,2-Dichloroethane	0.34	1.1	0.34	0.12	U
71-43-2	Benzene	570	6.7	2.2	0.99	D
56-23-5	Carbon Tetrachloride	1.5	0.67	0.22	0.097	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-025

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00940

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.25 Liter(s)

0.050 Liter(s)

Initial Pressure (psig): -4.33 Final Pressure (psig): 6.59

Container Dilution Factor: 2.05

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	<b>490</b>	12	4.1	1.8	<b>D</b>
75-27-4	Bromodichloromethane	0.21	0.64	0.21	0.094	<b>U</b>
79-01-6	Trichloroethene	<b>0.76</b>	0.78	0.26	0.11	<b>J</b>
123-91-1	1,4-Dioxane	0.39	1.2	0.39	0.14	<b>U</b>
142-82-5	n-Heptane	<b>10</b>	1.0	0.64	0.17	
108-10-1	4-Methyl-2-pentanone	0.34	2.0	0.34	0.15	<b>U</b>
108-88-3	Toluene	<b>14</b>	1.1	0.37	0.14	
591-78-6	2-Hexanone	0.34	2.0	0.34	0.13	<b>U</b>
124-48-1	Dibromochloromethane	0.16	0.50	0.16	0.067	<b>U</b>
106-93-4	1,2-Dibromoethane	0.18	0.56	0.18	0.066	<b>U</b>
127-18-4	Tetrachloroethene	<b>0.65</b>	0.63	0.21	0.083	
100-41-4	Ethylbenzene	<b>0.35</b>	0.98	0.32	0.14	<b>J</b>
179601-23-1	m,p-Xylenes	<b>4.8</b>	1.9	0.64	0.26	
75-25-2	Bromoform	0.25	0.42	0.25	0.087	<b>U</b>
100-42-5	Styrene	0.62	1.0	0.62	0.17	<b>U</b>
95-47-6	o-Xylene	<b>4.2</b>	1.0	0.32	0.15	
108-67-8	1,3,5-Trimethylbenzene	<b>0.59</b>	0.88	0.28	0.13	<b>J</b>
95-63-6	1,2,4-Trimethylbenzene	<b>0.82</b>	0.87	0.28	0.12	<b>J</b>
120-82-1	1,2,4-Trichlorobenzene	0.35	1.1	0.35	0.14	<b>U</b>
91-20-3	Naphthalene	<b>0.27</b>	0.81	0.49	0.20	<b>J</b>
1330-20-7	Xylenes, Total	<b>9.0</b>	1.9	0.64	0.26	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-026

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00901

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.0080 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 5.53

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	43	70	43	17	U
75-71-8	Dichlorodifluoromethane (CFC 12)	9.3	24	15	4.1	J
74-87-3	Chloromethane	36	58	36	9.6	U
75-01-4	Vinyl Chloride	15	48	15	5.2	U
106-99-0	1,3-Butadiene	33	54	33	9.2	U
75-00-3	Chloroethane	28	46	28	5.8	U
64-17-5	Ethanol	100	650	100	45	U
67-64-1	Acetone	260	510	260	120	U
75-69-4	Trichlorofluoromethane	13	21	13	3.3	U
67-63-0	2-Propanol (Isopropyl Alcohol)	59	94	59	21	U
75-09-2	Methylene Chloride	21	35	21	10	U
76-13-1	Trichlorotrifluoroethane	2.9	16	5.1	2.3	J
75-15-0	Carbon Disulfide	40	74	40	12	U
75-34-3	1,1-Dichloroethane	19	31	19	4.5	U
78-93-3	2-Butanone (MEK)	25	78	25	8.6	U
141-78-6	Ethyl Acetate	99	64	42	18	
110-54-3	n-Hexane	700	34	21	7.2	
67-66-3	Chloroform	8.1	25	8.1	3.4	U
109-99-9	Tetrahydrofuran (THF)	13	78	13	5.3	U
107-06-2	1,2-Dichloroethane	9.7	30	9.7	3.4	U
71-43-2	Benzene	220	38	12	5.6	
56-23-5	Carbon Tetrachloride	6.3	19	6.3	2.7	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-026

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00901

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.0080 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 5.53

Container Dilution Factor: 1.85

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	12,000	67	23	10	
75-27-4	Bromodichloromethane	5.9	18	5.9	2.7	U
79-01-6	Trichloroethene	11	22	7.3	3.1	J
123-91-1	1,4-Dioxane	11	33	11	4.0	U
142-82-5	n-Heptane	18	29	18	4.8	U
108-10-1	4-Methyl-2-pentanone	9.6	56	9.6	4.1	U
108-88-3	Toluene	48	32	10	4.0	
591-78-6	2-Hexanone	9.6	56	9.6	3.7	U
124-48-1	Dibromochloromethane	4.6	14	4.6	1.9	U
106-93-4	1,2-Dibromoethane	2.4	16	5.1	1.9	J
127-18-4	Tetrachloroethene	4.2	18	5.8	2.4	J
100-41-4	Ethylbenzene	9.1	28	9.1	4.0	U
179601-23-1	m,p-Xylenes	11	53	18	7.5	J
75-25-2	Bromoform	7.2	12	7.2	2.5	U
100-42-5	Styrene	17	28	17	4.7	U
95-47-6	o-Xylene	16	28	9.1	4.1	J
108-67-8	1,3,5-Trimethylbenzene	5.5	25	8.0	3.6	J
95-63-6	1,2,4-Trimethylbenzene	8.0	24	8.0	3.5	U
120-82-1	1,2,4-Trichlorobenzene	10	31	10	4.1	U
91-20-3	Naphthalene	14	23	14	5.7	U
1330-20-7	Xylenes, Total	27	53	18	7.5	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-027

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00881

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.00040 Liter(s)

0.00010 Liter(s)

Initial Pressure (psig): -4.61 Final Pressure (psig): 5.51

Container Dilution Factor: 2.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	4,200	1,500	930	380	
75-71-8	Dichlorodifluoromethane (CFC 12)	320	530	320	88	U
74-87-3	Chloromethane	780	1,300	780	210	U
75-01-4	Vinyl Chloride	330	1,000	330	110	U
106-99-0	1,3-Butadiene	720	1,200	720	200	U
75-00-3	Chloroethane	610	990	610	130	U
64-17-5	Ethanol	2,200	14,000	2,200	980	U
67-64-1	Acetone	5,700	11,000	5,700	2,500	U
75-69-4	Trichlorofluoromethane	280	450	280	72	U
67-63-0	2-Propanol (Isopropyl Alcohol)	1,300	2,000	1,300	450	U
75-09-2	Methylene Chloride	460	750	460	220	U
76-13-1	Trichlorotrifluoroethane	51	350	110	50	J
75-15-0	Carbon Disulfide	870	1,600	870	260	U
75-34-3	1,1-Dichloroethane	410	670	410	96	U
78-93-3	2-Butanone (MEK)	270	1,700	540	190	J
141-78-6	Ethyl Acetate	900	1,400	900	390	U
110-54-3	n-Hexane	180,000	3,000	1,800	620	D
67-66-3	Chloroform	170	540	170	73	U
109-99-9	Tetrahydrofuran (THF)	290	1,700	290	110	U
107-06-2	1,2-Dichloroethane	210	640	210	73	U
71-43-2	Benzene	22,000	810	270	120	
56-23-5	Carbon Tetrachloride	140	410	140	59	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-450-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-027

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/12/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00040 Liter(s)

Test Notes:

0.00010 Liter(s)

Container ID: 1SS00881

Initial Pressure (psig): -4.61 Final Pressure (psig): 5.51

Container Dilution Factor: 2.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	260,000	1,500	490	220	
75-27-4	Bromodichloromethane	130	390	130	57	U
79-01-6	Trichloroethene	100	470	160	67	J
123-91-1	1,4-Dioxane	240	720	240	87	U
142-82-5	n-Heptane	180,000	2,500	1,600	410	D
108-10-1	4-Methyl-2-pentanone	210	1,200	210	89	U
108-88-3	Toluene	52,000	690	230	86	
591-78-6	2-Hexanone	210	1,200	210	81	U
124-48-1	Dibromochloromethane	100	310	100	41	U
106-93-4	1,2-Dibromoethane	42	340	110	40	J
127-18-4	Tetrachloroethene	98	380	130	51	J
100-41-4	Ethylbenzene	2,300	600	200	86	
179601-23-1	m,p-Xylenes	5,500	1,200	390	160	
75-25-2	Bromoform	150	260	150	53	U
100-42-5	Styrene	380	610	380	100	U
95-47-6	o-Xylene	2,500	610	200	89	
108-67-8	1,3,5-Trimethylbenzene	430	540	170	78	J
95-63-6	1,2,4-Trimethylbenzene	230	530	170	75	J
120-82-1	1,2,4-Trichlorobenzene	220	670	220	88	U
91-20-3	Naphthalene	300	500	300	120	U
1330-20-7	Xylenes, Total	8,000	1,200	390	160	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SVTB204-03  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P2006080-028

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00088

Date Collected: 10/21/20  
 Date Received: 10/26/20  
 Date Analyzed: 11/12/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	<b>0.28</b>	0.76	0.47	0.19	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	0.16	0.26	0.16	0.044	<b>U</b>
74-87-3	Chloromethane	0.39	0.63	0.39	0.10	<b>U</b>
75-01-4	Vinyl Chloride	0.17	0.52	0.17	0.056	<b>U</b>
106-99-0	1,3-Butadiene	0.36	0.59	0.36	0.099	<b>U</b>
75-00-3	Chloroethane	0.30	0.49	0.30	0.063	<b>U</b>
64-17-5	Ethanol	<b>4.3</b>	7.0	1.1	0.49	<b>J</b>
67-64-1	Acetone	<b>3.1</b>	5.5	2.8	1.3	<b>J</b>
75-69-4	Trichlorofluoromethane	0.14	0.23	0.14	0.036	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.38</b>	1.0	0.64	0.22	<b>J</b>
75-09-2	Methylene Chloride	0.23	0.37	0.23	0.11	<b>U</b>
76-13-1	Trichlorotrifluoroethane	0.055	0.17	0.055	0.025	<b>U</b>
75-15-0	Carbon Disulfide	0.43	0.80	0.43	0.13	<b>U</b>
75-34-3	1,1-Dichloroethane	0.20	0.33	0.20	0.048	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>0.53</b>	0.85	0.27	0.093	<b>J</b>
141-78-6	Ethyl Acetate	<b>13</b>	0.69	0.45	0.19	
110-54-3	n-Hexane	0.23	0.37	0.23	0.078	<b>U</b>
67-66-3	Chloroform	0.087	0.27	0.087	0.036	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	0.14	0.85	0.14	0.057	<b>U</b>
107-06-2	1,2-Dichloroethane	0.11	0.32	0.11	0.036	<b>U</b>
71-43-2	Benzene	<b>0.15</b>	0.41	0.13	0.060	<b>J</b>
56-23-5	Carbon Tetrachloride	0.068	0.20	0.068	0.029	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVTB204-03**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-028

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00088

Date Collected: 10/21/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.25	0.73	0.25	0.11	U
75-27-4	Bromodichloromethane	0.063	0.19	0.063	0.029	U
79-01-6	Trichloroethene	0.079	0.24	0.079	0.034	U
123-91-1	1,4-Dioxane	0.12	0.36	0.12	0.044	U
142-82-5	n-Heptane	0.20	0.32	0.20	0.052	U
108-10-1	4-Methyl-2-pentanone	0.10	0.61	0.10	0.045	U
108-88-3	Toluene	<b>0.25</b>	0.35	0.11	0.043	J
591-78-6	2-Hexanone	<b>0.071</b>	0.61	0.10	0.040	J
124-48-1	Dibromochloromethane	0.050	0.15	0.050	0.021	U
106-93-4	1,2-Dibromoethane	0.055	0.17	0.055	0.020	U
127-18-4	Tetrachloroethene	0.063	0.19	0.063	0.025	U
100-41-4	Ethylbenzene	0.098	0.30	0.098	0.043	U
179601-23-1	m,p-Xylenes	0.20	0.58	0.20	0.081	U
75-25-2	Bromoform	0.077	0.13	0.077	0.027	U
100-42-5	Styrene	0.19	0.31	0.19	0.051	U
95-47-6	o-Xylene	0.098	0.31	0.098	0.044	U
108-67-8	1,3,5-Trimethylbenzene	0.086	0.27	0.086	0.039	U
95-63-6	1,2,4-Trimethylbenzene	0.086	0.26	0.086	0.038	U
120-82-1	1,2,4-Trichlorobenzene	0.11	0.34	0.11	0.044	U
91-20-3	Naphthalene	0.15	0.25	0.15	0.062	U
1330-20-7	Xylenes, Total	0.20	0.58	0.20	0.081	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-302-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-015DUP

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

Container ID: 1SS01028

Initial Pressure (psig): -3.96

Final Pressure (psig): 7.42

Container Dilution Factor: 2.06

Compound	Sample Result ppbV	Duplicate		Average ppbV	% RPD	RPD Limit	Data Qualifier
		Sample Result ppbV	Sample Result ppbV				
Propene	20	20	20	20	0	25	
Dichlorodifluoromethane (CFC 12)	5.2	5.1	5.1	5.15	2	25	J
Chloromethane	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	-	-	25	
Ethanol	ND	ND	ND	-	-	25	
Acetone	ND	ND	ND	-	-	25	
Trichlorofluoromethane	2.5	2.4	2.4	2.45	4	25	J
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	-	-	25	
Methylene Chloride	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	18	18	18	18	0	25	
Carbon Disulfide	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	ND	-	-	25	
Ethyl Acetate	ND	ND	ND	-	-	25	
n-Hexane	93	91	91	92	2	25	
Chloroform	2.2	2.1	2.1	2.15	5	25	J
Tetrahydrofuran (THF)	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	-	-	25	
Benzene	24	24	24	24	0	25	
Carbon Tetrachloride	8.4	8.4	8.4	8.4	0	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-302-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-015DUP

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

Container ID: 1SS01028

Initial Pressure (psig): -3.96

Final Pressure (psig): 7.42

Container Dilution Factor: 2.06

Compound	Sample Result ppbV	Duplicate		Average ppbV	% RPD	RPD Limit	Data Qualifier
		Sample Result ppbV	Sample Result ppbV				
Cyclohexane	1,800	1,800	1,800	1800	0	25	
Bromodichloromethane	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	-	-	25	
Toluene	3.7	3.5	3.6	3.6	6	25	J
2-Hexanone	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	-	-	25	
1,2-Dibromoethane	3.5	3.1	3.3	3.3	12	25	J
Tetrachloroethene	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	ND	-	-	25	
Bromoform	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	-	-	25	
o-Xylene	2.6	2.5	2.55	2.55	4	25	J
1,3,5-Trimethylbenzene	0.97	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	-	-	25	
Xylenes, Total	2.6	2.5	2.55	2.55	4	25	J

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201111-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/11/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201111-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/11/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201112-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/12/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
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## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201112-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/12/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/19/20

Analyst: Lusine Hakobyan

Date(s) Received: 10/26/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 11/11 - 11/12/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201111-MB	100	102	102	70-130	
Method Blank	P201112-MB	99	102	103	70-130	
Lab Control Sample	P201111-LCS	98	98	101	70-130	
Lab Control Sample	P201112-LCS	99	98	102	70-130	
Duplicate Lab Control Sample	P201111-DLCS	98	99	102	70-130	
Duplicate Lab Control Sample	P201112-DLCS	99	98	102	70-130	
SV01-300-204	P2006080-001	101	99	103	70-130	
SV02-050-204	P2006080-002	101	102	105	70-130	
SV02-100-204	P2006080-003	102	102	105	70-130	
SV02-150-604	P2006080-004	102	99	103	70-130	
SV02-150-204	P2006080-005	101	101	105	70-130	
SV05-050-604	P2006080-006	99	97	100	70-130	
SV05-050-204	P2006080-007	98	105	108	70-130	
SV05-100-204	P2006080-008	98	90	90	70-130	
SV05-230-204	P2006080-009	102	93	99	70-130	
SV05-290-204	P2006080-010	98	102	101	70-130	
SV06-050-204	P2006080-011	97	99	107	70-130	
SV06-100-604	P2006080-012	96	106	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/19/20

Analyst: Lusine Hakobyan

Date(s) Received: 10/26/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 11/11 - 11/12/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
SV06-100-204	P2006080-013	97	109	110	70-130	
SV06-252-204	P2006080-014	103	103	103	70-130	
SV06-302-204	P2006080-015	97	107	103	70-130	
SV06-302-204	P2006080-015DUP	97	106	99	70-130	
SV12-150-204	P2006080-016	97	105	105	70-130	
SV12-250-204	P2006080-017	99	101	105	70-130	
SV12-350-204	P2006080-018	98	102	107	70-130	
SV12-450-204	P2006080-019	99	100	106	70-130	
SV13-150-204	P2006080-020	101	93	96	70-130	
SV13-250-204	P2006080-021	100	100	106	70-130	
SV13-350-204	P2006080-022	101	93	103	70-130	
SV13-450-204	P2006080-023	100	89	94	70-130	
SV15-150-204	P2006080-024	100	102	104	70-130	
SV15-250-204	P2006080-025	100	103	101	70-130	
SV15-350-204	P2006080-026	100	99	103	70-130	
SV15-450-204	P2006080-027	100	97	103	70-130	
SVTB204-03	P2006080-028	99	105	103	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201111-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/11/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS ppbV	LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits	RPD Limit	
115-07-1	Propene	122	119	118	98	97	57-136	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	38.3	37.7	90	89	59-128	1	25	
74-87-3	Chloromethane	99.8	71.9	69.2	72	69	59-132	4	25	
75-01-4	Vinyl Chloride	81.4	75.5	73.3	93	90	64-127	3	25	
106-99-0	1,3-Butadiene	95.0	79.0	77.0	83	81	66-134	2	25	
75-00-3	Chloroethane	77.3	71.7	69.2	93	90	63-127	3	25	
64-17-5	Ethanol	530	483	471	91	89	59-125	2	25	
67-64-1	Acetone	435	390	376	90	86	58-128	5	25	
75-69-4	Trichlorofluoromethane	36.3	33.8	33.2	93	91	62-126	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	141	134	85	81	52-125	5	25	
75-09-2	Methylene Chloride	59.9	53.9	52.6	90	88	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	27.9	25.5	25.2	91	90	66-126	1	25	
75-15-0	Carbon Disulfide	137	129	126	94	92	57-134	2	25	
75-34-3	1,1-Dichloroethane	52.4	47.9	46.8	91	89	68-126	2	25	
78-93-3	2-Butanone (MEK)	140	136	133	97	95	67-130	2	25	
141-78-6	Ethyl Acetate	117	146	141	125	121	65-128	3	25	
110-54-3	n-Hexane	60.2	61.2	59.3	102	99	63-120	3	25	
67-66-3	Chloroform	43.8	40.0	39.0	91	89	68-123	2	25	
109-99-9	Tetrahydrofuran (THF)	136	126	124	93	91	64-123	2	25	
107-06-2	1,2-Dichloroethane	51.4	48.0	46.5	93	90	65-128	3	25	
71-43-2	Benzene	63.9	57.5	57.3	90	90	69-119	0	25	
56-23-5	Carbon Tetrachloride	33.4	30.7	29.9	92	90	68-132	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201111-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/11/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		DOD		RPD	RPD	Data Qualifier
		LCS / DLCS	ppbV	LCS	DLCS	% Recovery	Acceptance			
110-82-7	Cyclohexane		121	116	114	<b>96</b>	<b>94</b>	70-117	2	25
75-27-4	Bromodichloromethane		31.4	30.3	30.0	<b>96</b>	<b>96</b>	72-128	0	25
79-01-6	Trichloroethene		38.3	35.3	34.6	<b>92</b>	<b>90</b>	71-123	2	25
123-91-1	1,4-Dioxane		57.7	54.7	53.7	<b>95</b>	<b>93</b>	71-122	2	25
142-82-5	n-Heptane		51.3	48.5	47.4	<b>95</b>	<b>92</b>	69-123	3	25
108-10-1	4-Methyl-2-pentanone		102	97.9	96.5	<b>96</b>	<b>95</b>	67-130	1	25
108-88-3	Toluene		54.7	50.1	50.0	<b>92</b>	<b>91</b>	66-119	1	25
591-78-6	2-Hexanone		98.7	96.2	95.6	<b>97</b>	<b>97</b>	62-128	0	25
124-48-1	Dibromochloromethane		24.7	25.5	25.2	<b>103</b>	<b>102</b>	70-130	1	25
106-93-4	1,2-Dibromoethane		27.1	26.6	26.3	<b>98</b>	<b>97</b>	74-122	1	25
127-18-4	Tetrachloroethene		30.4	28.9	28.8	<b>95</b>	<b>95</b>	66-124	0	25
100-41-4	Ethylbenzene		47.4	45.4	45.1	<b>96</b>	<b>95</b>	70-124	1	25
179601-23-1	m,p-Xylenes		94.9	92.4	91.6	<b>97</b>	<b>97</b>	61-134	0	25
75-25-2	Bromoform		20.1	20.0	19.8	<b>100</b>	<b>99</b>	66-139	1	25
100-42-5	Styrene		48.4	49.8	49.3	<b>103</b>	<b>102</b>	73-127	1	25
95-47-6	o-Xylene		47.4	46.5	45.8	<b>98</b>	<b>97</b>	67-125	1	25
108-67-8	1,3,5-Trimethylbenzene		41.9	41.8	41.2	<b>100</b>	<b>98</b>	67-130	2	25
95-63-6	1,2,4-Trimethylbenzene		41.5	44.5	43.7	<b>107</b>	<b>105</b>	66-132	2	25
120-82-1	1,2,4-Trichlorobenzene		52.3	58.4	58.0	<b>112</b>	<b>111</b>	55-142	0.9	25
91-20-3	Naphthalene		37.8	37.7	37.9	<b>100</b>	<b>100</b>	57-138	0	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201112-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/12/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	122	120	119	98	98	57-136	0	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	38.4	38.0	90	89	59-128	1	25	
74-87-3	Chloromethane	99.8	70.4	67.7	71	68	59-132	4	25	
75-01-4	Vinyl Chloride	81.4	75.4	73.7	93	91	64-127	2	25	
106-99-0	1,3-Butadiene	95.0	79.7	78.5	84	83	66-134	1	25	
75-00-3	Chloroethane	77.3	70.4	70.0	91	91	63-127	0	25	
64-17-5	Ethanol	530	484	483	91	91	59-125	0	25	
67-64-1	Acetone	435	387	385	89	89	58-128	0	25	
75-69-4	Trichlorofluoromethane	36.3	33.8	33.3	93	92	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	138	138	83	83	52-125	0	25	
75-09-2	Methylene Chloride	59.9	53.9	52.9	90	88	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	27.9	25.6	25.3	92	91	66-126	1	25	
75-15-0	Carbon Disulfide	137	127	125	93	91	57-134	2	25	
75-34-3	1,1-Dichloroethane	52.4	47.8	46.9	91	90	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	134	133	96	95	67-130	1	25	
141-78-6	Ethyl Acetate	117	144	141	123	121	65-128	2	25	
110-54-3	n-Hexane	60.2	60.8	59.7	101	99	63-120	2	25	
67-66-3	Chloroform	43.8	39.6	39.0	90	89	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	136	125	123	92	90	64-123	2	25	
107-06-2	1,2-Dichloroethane	51.4	47.5	47.2	92	92	65-128	0	25	
71-43-2	Benzene	63.9	57.3	56.8	90	89	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	30.1	30.1	90	90	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201112-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/12/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	121	115	114	95	94	70-117	1	25	
75-27-4	Bromodichloromethane	31.4	30.1	29.7	96	95	72-128	1	25	
79-01-6	Trichloroethene	38.3	34.4	34.5	90	90	71-123	0	25	
123-91-1	1,4-Dioxane	57.7	53.3	52.9	92	92	71-122	0	25	
142-82-5	n-Heptane	51.3	47.1	47.1	92	92	69-123	0	25	
108-10-1	4-Methyl-2-pentanone	102	95.3	95.2	93	93	67-130	0	25	
108-88-3	Toluene	54.7	50.0	49.5	91	90	66-119	1	25	
591-78-6	2-Hexanone	98.7	95.3	94.0	97	95	62-128	2	25	
124-48-1	Dibromochloromethane	24.7	25.0	25.0	101	101	70-130	0	25	
106-93-4	1,2-Dibromoethane	27.1	26.1	26.1	96	96	74-122	0	25	
127-18-4	Tetrachloroethene	30.4	28.6	28.5	94	94	66-124	0	25	
100-41-4	Ethylbenzene	47.4	44.8	44.7	95	94	70-124	1	25	
179601-23-1	m,p-Xylenes	94.9	91.5	90.8	96	96	61-134	0	25	
75-25-2	Bromoform	20.1	19.6	19.6	98	98	66-139	0	25	
100-42-5	Styrene	48.4	49.2	49.2	102	102	73-127	0	25	
95-47-6	o-Xylene	47.4	45.7	45.5	96	96	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	41.9	40.9	41.1	98	98	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	41.5	43.4	43.8	105	106	66-132	0.9	25	
120-82-1	1,2,4-Trichlorobenzene	52.3	56.9	57.2	109	109	55-142	0	25	
91-20-3	Naphthalene	37.8	36.7	37.4	97	99	57-138	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-300-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-001

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0070 Liter(s)

Test Notes:

Container ID: 1SC00597

Initial Pressure (psig): -2.50 Final Pressure (psig): 6.15

Container Dilution Factor: 1.71

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	210	130	78	32	
75-71-8	Dichlorodifluoromethane (CFC 12)	78	130	78	21	U
74-87-3	Chloromethane	78	130	78	21	U
75-01-4	Vinyl Chloride	42	130	42	14	U
106-99-0	1,3-Butadiene	78	130	78	21	U
75-00-3	Chloroethane	78	130	78	16	U
64-17-5	Ethanol	200	1,300	200	90	U
67-64-1	Acetone	660	1,300	660	290	U
75-69-4	Trichlorofluoromethane	78	120	78	20	U
67-63-0	2-Propanol (Isopropyl Alcohol)	150	240	150	54	U
75-09-2	Methylene Chloride	78	130	78	37	U
76-13-1	Trichlorotrifluoroethane	1,100	130	42	19	
75-15-0	Carbon Disulfide	130	240	130	39	U
75-34-3	1,1-Dichloroethane	81	130	81	19	U
78-93-3	2-Butanone (MEK)	78	240	78	27	U
141-78-6	Ethyl Acetate	160	240	160	68	U
110-54-3	n-Hexane	9,900	130	78	27	
67-66-3	Chloroform	42	130	42	17	U
109-99-9	Tetrahydrofuran (THF)	42	240	42	16	U
107-06-2	1,2-Dichloroethane	42	130	42	14	U
71-43-2	Benzene	2,900	130	42	19	
56-23-5	Carbon Tetrachloride	38	120	42	18	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV01-300-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-001

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0070 Liter(s)

Test Notes:

Container ID: 1SC00597

Initial Pressure (psig): -2.50 Final Pressure (psig): 6.15

Container Dilution Factor: 1.71

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	24,000	240	83	37	
75-27-4	Bromodichloromethane	42	130	42	19	U
79-01-6	Trichloroethene	39	120	42	18	J
123-91-1	1,4-Dioxane	42	130	42	15	U
142-82-5	n-Heptane	8,100	130	78	21	
108-10-1	4-Methyl-2-pentanone	42	240	42	18	U
108-88-3	Toluene	140	130	42	16	
591-78-6	2-Hexanone	42	240	42	16	U
124-48-1	Dibromochloromethane	42	130	42	17	U
106-93-4	1,2-Dibromoethane	42	130	42	15	U
127-18-4	Tetrachloroethene	47	130	42	17	J
100-41-4	Ethylbenzene	42	130	42	18	U
179601-23-1	m,p-Xylenes	130	240	83	34	J
75-25-2	Bromoform	78	130	78	27	U
100-42-5	Styrene	78	130	78	21	U
95-47-6	o-Xylene	82	130	42	19	J
108-67-8	1,3,5-Trimethylbenzene	23	130	42	19	J
95-63-6	1,2,4-Trimethylbenzene	29	130	42	18	J
120-82-1	1,2,4-Trichlorobenzene	78	240	78	32	U
91-20-3	Naphthalene	76	130	76	32	U
1330-20-7	Xylenes, Total	220	240	83	34	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00864

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.00125 Liter(s)

Initial Pressure (psig): -3.57 Final Pressure (psig): 5.33

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	460	750	460	190	U
75-71-8	Dichlorodifluoromethane (CFC 12)	460	750	460	130	U
74-87-3	Chloromethane	460	750	460	120	U
75-01-4	Vinyl Chloride	240	760	240	82	U
106-99-0	1,3-Butadiene	460	750	460	130	U
75-00-3	Chloroethane	460	750	460	95	U
64-17-5	Ethanol	1,200	7,600	1,200	530	U
67-64-1	Acetone	3,900	7,500	3,900	1,700	U
75-69-4	Trichlorofluoromethane	460	730	460	120	U
67-63-0	2-Propanol (Isopropyl Alcohol)	910	1,400	910	320	U
75-09-2	Methylene Chloride	460	750	460	220	U
76-13-1	Trichlorotrifluoroethane	<b>110</b>	760	240	110	J
75-15-0	Carbon Disulfide	780	1,400	780	230	U
75-34-3	1,1-Dichloroethane	480	780	480	110	U
78-93-3	2-Butanone (MEK)	460	1,400	460	160	U
141-78-6	Ethyl Acetate	940	1,400	940	400	U
110-54-3	n-Hexane	460	750	460	160	U
67-66-3	Chloroform	240	760	240	100	U
109-99-9	Tetrahydrofuran (THF)	240	1,400	240	96	U
107-06-2	1,2-Dichloroethane	240	750	240	85	U
71-43-2	Benzene	240	750	240	110	U
56-23-5	Carbon Tetrachloride	240	730	240	110	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-050-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-002

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00125 Liter(s)

Test Notes:

Container ID: 1SS00864

Initial Pressure (psig): -3.57 Final Pressure (psig): 5.33

Container Dilution Factor: 1.80

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	490	1,400	490	220	U
75-27-4	Bromodichloromethane	240	750	240	110	U
79-01-6	Trichloroethene	<b>110</b>	730	240	100	J
123-91-1	1,4-Dioxane	<b>110</b>	750	240	91	J
142-82-5	n-Heptane	460	750	460	120	U
108-10-1	4-Methyl-2-pentanone	240	1,400	240	110	U
108-88-3	Toluene	240	750	240	94	U
591-78-6	2-Hexanone	240	1,400	240	95	U
124-48-1	Dibromochloromethane	240	750	240	100	U
106-93-4	1,2-Dibromoethane	240	750	240	89	U
127-18-4	Tetrachloroethene	<b>200</b>	750	240	99	J
100-41-4	Ethylbenzene	240	750	240	110	U
179601-23-1	m,p-Xylenes	490	1,400	490	200	U
75-25-2	Bromoform	460	760	460	160	U
100-42-5	Styrene	460	750	460	120	U
95-47-6	o-Xylene	240	760	240	110	U
108-67-8	1,3,5-Trimethylbenzene	240	760	240	110	U
95-63-6	1,2,4-Trimethylbenzene	240	750	240	110	U
120-82-1	1,2,4-Trichlorobenzene	460	1,400	460	190	U
91-20-3	Naphthalene	450	750	450	190	U
1330-20-7	Xylenes, Total	490	1,400	490	200	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00801

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.000060 Liter(s)

Initial Pressure (psig): -3.53 Final Pressure (psig): 5.91

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	9,900	16,000	9,900	4,000	U
75-71-8	Dichlorodifluoromethane (CFC 12)	9,900	16,000	9,900	2,700	U
74-87-3	Chloromethane	9,900	16,000	9,900	2,700	U
75-01-4	Vinyl Chloride	5,200	16,000	5,200	1,800	U
106-99-0	1,3-Butadiene	9,900	16,000	9,900	2,700	U
75-00-3	Chloroethane	9,900	16,000	9,900	2,000	U
64-17-5	Ethanol	26,000	160,000	26,000	11,000	U
67-64-1	Acetone	83,000	160,000	83,000	37,000	U
75-69-4	Trichlorofluoromethane	9,900	16,000	9,900	2,500	U
67-63-0	2-Propanol (Isopropyl Alcohol)	19,000	31,000	19,000	6,800	U
75-09-2	Methylene Chloride	9,900	16,000	9,900	4,600	U
76-13-1	Trichlorotrifluoroethane	5,200	16,000	5,200	2,300	U
75-15-0	Carbon Disulfide	17,000	31,000	17,000	4,900	U
75-34-3	1,1-Dichloroethane	10,000	17,000	10,000	2,400	U
78-93-3	2-Butanone (MEK)	9,900	31,000	9,900	3,400	U
141-78-6	Ethyl Acetate	20,000	31,000	20,000	8,600	U
110-54-3	n-Hexane	<b>1,100,000</b>	16,000	9,900	3,400	
67-66-3	Chloroform	5,200	16,000	5,200	2,200	U
109-99-9	Tetrahydrofuran (THF)	5,200	31,000	5,200	2,100	U
107-06-2	1,2-Dichloroethane	5,200	16,000	5,200	1,800	U
71-43-2	Benzene	<b>390,000</b>	16,000	5,200	2,400	
56-23-5	Carbon Tetrachloride	5,200	16,000	5,200	2,300	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-100-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-003

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.000060 Liter(s)

Test Notes:

Container ID: 1SS00801

Initial Pressure (psig): -3.53 Final Pressure (psig): 5.91

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1,500,000	31,000	10,000	4,600	
75-27-4	Bromodichloromethane	5,200	16,000	5,200	2,400	U
79-01-6	Trichloroethene	2,700	16,000	5,200	2,200	J
123-91-1	1,4-Dioxane	2,700	16,000	5,200	1,900	J
142-82-5	n-Heptane	2,200,000	16,000	9,900	2,600	
108-10-1	4-Methyl-2-pentanone	5,200	31,000	5,200	2,300	U
108-88-3	Toluene	1,800,000	16,000	5,200	2,000	
591-78-6	2-Hexanone	5,200	31,000	5,200	2,000	U
124-48-1	Dibromochloromethane	5,200	16,000	5,200	2,200	U
106-93-4	1,2-Dibromoethane	6,900	16,000	5,200	1,900	J
127-18-4	Tetrachloroethene	4,100	16,000	5,200	2,100	J
100-41-4	Ethylbenzene	50,000	16,000	5,200	2,300	
179601-23-1	m,p-Xylenes	250,000	31,000	10,000	4,300	
75-25-2	Bromoform	9,900	16,000	9,900	3,400	U
100-42-5	Styrene	9,900	16,000	9,900	2,700	U
95-47-6	o-Xylene	53,000	16,000	5,200	2,400	
108-67-8	1,3,5-Trimethylbenzene	7,100	16,000	5,200	2,400	J
95-63-6	1,2,4-Trimethylbenzene	11,000	16,000	5,200	2,300	J
120-82-1	1,2,4-Trichlorobenzene	9,900	31,000	9,900	4,000	U
91-20-3	Naphthalene	9,600	16,000	9,600	4,000	U
1330-20-7	Xylenes, Total	310,000	31,000	10,000	4,300	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-150-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00226

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.00010 Liter(s)

0.000040 Liter(s)

Initial Pressure (psig): -4.96 Final Pressure (psig): 5.76

Container Dilution Factor: 2.10

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	6,700	11,000	6,700	2,700	U
75-71-8	Dichlorodifluoromethane (CFC 12)	6,700	11,000	6,700	1,800	U
74-87-3	Chloromethane	6,700	11,000	6,700	1,800	U
75-01-4	Vinyl Chloride	3,600	11,000	3,600	1,200	U
106-99-0	1,3-Butadiene	6,700	11,000	6,700	1,800	U
75-00-3	Chloroethane	6,700	11,000	6,700	1,400	U
64-17-5	Ethanol	17,000	110,000	17,000	7,800	U
67-64-1	Acetone	57,000	110,000	57,000	25,000	U
75-69-4	Trichlorofluoromethane	6,700	11,000	6,700	1,700	U
67-63-0	2-Propanol (Isopropyl Alcohol)	13,000	21,000	13,000	4,600	U
75-09-2	Methylene Chloride	6,700	11,000	6,700	3,200	U
76-13-1	Trichlorotrifluoroethane	3,600	11,000	3,600	1,600	U
75-15-0	Carbon Disulfide	11,000	21,000	11,000	3,400	U
75-34-3	1,1-Dichloroethane	6,900	11,000	6,900	1,600	U
78-93-3	2-Butanone (MEK)	6,700	21,000	6,700	2,300	U
141-78-6	Ethyl Acetate	14,000	21,000	14,000	5,900	U
110-54-3	n-Hexane	<b>2,100,000</b>	11,000	6,700	2,300	
67-66-3	Chloroform	3,600	11,000	3,600	1,500	U
109-99-9	Tetrahydrofuran (THF)	3,600	21,000	3,600	1,400	U
107-06-2	1,2-Dichloroethane	3,600	11,000	3,600	1,200	U
71-43-2	Benzene	<b>710,000</b>	11,000	3,600	1,600	
56-23-5	Carbon Tetrachloride	3,600	11,000	3,600	1,600	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV02-150-604

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-004

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00010 Liter(s)

Test Notes:

0.000040 Liter(s)

Container ID: 1SS00226

Initial Pressure (psig): -4.96 Final Pressure (psig): 5.76

Container Dilution Factor: 2.10

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2,600,000	21,000	7,100	3,200	
75-27-4	Bromodichloromethane	3,600	11,000	3,600	1,600	U
79-01-6	Trichloroethene	1,800	11,000	3,600	1,500	J
123-91-1	1,4-Dioxane	3,600	11,000	3,600	1,300	U
142-82-5	n-Heptane	3,100,000	27,000	17,000	4,500	D
108-10-1	4-Methyl-2-pentanone	3,600	21,000	3,600	1,500	U
108-88-3	Toluene	1,900,000	11,000	3,600	1,400	
591-78-6	2-Hexanone	3,600	21,000	3,600	1,400	U
124-48-1	Dibromochloromethane	3,600	11,000	3,600	1,500	U
106-93-4	1,2-Dibromoethane	1,800	11,000	3,600	1,300	J
127-18-4	Tetrachloroethene	2,800	11,000	3,600	1,400	J
100-41-4	Ethylbenzene	70,000	11,000	3,600	1,600	
179601-23-1	m,p-Xylenes	240,000	21,000	7,100	2,900	
75-25-2	Bromoform	6,700	11,000	6,700	2,300	U
100-42-5	Styrene	6,700	11,000	6,700	1,800	U
95-47-6	o-Xylene	71,000	11,000	3,600	1,600	
108-67-8	1,3,5-Trimethylbenzene	7,500	11,000	3,600	1,600	J
95-63-6	1,2,4-Trimethylbenzene	10,000	11,000	3,600	1,600	J
120-82-1	1,2,4-Trichlorobenzene	6,700	21,000	6,700	2,700	U
91-20-3	Naphthalene	6,500	11,000	6,500	2,700	U
1330-20-7	Xylenes, Total	310,000	21,000	7,100	2,900	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00803

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.000050 Liter(s)

Initial Pressure (psig): -2.40 Final Pressure (psig): 6.91

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	11,000	18,000	11,000	4,600	U
75-71-8	Dichlorodifluoromethane (CFC 12)	11,000	18,000	11,000	3,100	U
74-87-3	Chloromethane	11,000	18,000	11,000	3,000	U
75-01-4	Vinyl Chloride	6,000	19,000	6,000	2,000	U
106-99-0	1,3-Butadiene	11,000	18,000	11,000	3,100	U
75-00-3	Chloroethane	11,000	18,000	11,000	2,300	U
64-17-5	Ethanol	29,000	190,000	29,000	13,000	U
67-64-1	Acetone	95,000	180,000	95,000	42,000	U
75-69-4	Trichlorofluoromethane	11,000	18,000	11,000	2,900	U
67-63-0	2-Propanol (Isopropyl Alcohol)	22,000	35,000	22,000	7,700	U
75-09-2	Methylene Chloride	11,000	18,000	11,000	5,300	U
76-13-1	Trichlorotrifluoroethane	6,000	19,000	6,000	2,700	U
75-15-0	Carbon Disulfide	19,000	35,000	19,000	5,600	U
75-34-3	1,1-Dichloroethane	12,000	19,000	12,000	2,700	U
78-93-3	2-Butanone (MEK)	11,000	35,000	11,000	3,900	U
141-78-6	Ethyl Acetate	23,000	35,000	23,000	9,900	U
110-54-3	n-Hexane	<b>1,700,000</b>	18,000	11,000	3,900	
67-66-3	Chloroform	6,000	19,000	6,000	2,500	U
109-99-9	Tetrahydrofuran (THF)	6,000	35,000	6,000	2,400	U
107-06-2	1,2-Dichloroethane	6,000	18,000	6,000	2,100	U
71-43-2	Benzene	<b>610,000</b>	18,000	6,000	2,700	
56-23-5	Carbon Tetrachloride	6,000	18,000	6,000	2,600	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV02-150-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-005

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.000050 Liter(s)

Test Notes:

Container ID: 1SC00803

Initial Pressure (psig): -2.40 Final Pressure (psig): 6.91

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2,100,000	35,000	12,000	5,300	
75-27-4	Bromodichloromethane	6,000	18,000	6,000	2,700	U
79-01-6	Trichloroethene	2,600	18,000	6,000	2,500	J
123-91-1	1,4-Dioxane	6,000	18,000	6,000	2,200	U
142-82-5	n-Heptane	3,000,000	18,000	11,000	3,000	
108-10-1	4-Methyl-2-pentanone	6,000	35,000	6,000	2,600	U
108-88-3	Toluene	1,600,000	18,000	6,000	2,300	
591-78-6	2-Hexanone	6,000	35,000	6,000	2,300	U
124-48-1	Dibromochloromethane	6,000	18,000	6,000	2,500	U
106-93-4	1,2-Dibromoethane	6,000	18,000	6,000	2,200	U
127-18-4	Tetrachloroethene	4,800	18,000	6,000	2,400	J
100-41-4	Ethylbenzene	72,000	18,000	6,000	2,600	
179601-23-1	m,p-Xylenes	250,000	35,000	12,000	4,900	
75-25-2	Bromoform	11,000	19,000	11,000	3,900	U
100-42-5	Styrene	11,000	18,000	11,000	3,000	U
95-47-6	o-Xylene	78,000	19,000	6,000	2,700	
108-67-8	1,3,5-Trimethylbenzene	9,000	19,000	6,000	2,700	J
95-63-6	1,2,4-Trimethylbenzene	13,000	18,000	6,000	2,600	J
120-82-1	1,2,4-Trichlorobenzene	11,000	35,000	11,000	4,600	U
91-20-3	Naphthalene	11,000	18,000	11,000	4,600	U
1330-20-7	Xylenes, Total	330,000	35,000	12,000	4,900	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-050-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00272

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.59 Final Pressure (psig): 6.73

Container Dilution Factor: 1.77

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.8	2.3	1.4	0.58	
75-71-8	Dichlorodifluoromethane (CFC 12)	4.8	2.3	1.4	0.38	
74-87-3	Chloromethane	1.4	2.3	1.4	0.38	J
75-01-4	Vinyl Chloride	0.75	2.3	0.75	0.25	U
106-99-0	1,3-Butadiene	1.4	2.3	1.4	0.39	U
75-00-3	Chloroethane	0.83	2.3	1.4	0.29	J
64-17-5	Ethanol	4.4	23	3.7	1.6	J
67-64-1	Acetone	28	23	12	5.3	
75-69-4	Trichlorofluoromethane	11	2.3	1.4	0.36	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.8	4.4	2.8	0.97	U
75-09-2	Methylene Chloride	1.4	2.3	1.4	0.66	U
76-13-1	Trichlorotrifluoroethane	59	2.3	0.75	0.34	
75-15-0	Carbon Disulfide	25	4.4	2.4	0.71	
75-34-3	1,1-Dichloroethane	1.5	2.4	1.5	0.35	U
78-93-3	2-Butanone (MEK)	8.8	4.4	1.4	0.49	
141-78-6	Ethyl Acetate	2.9	4.4	2.9	1.2	U
110-54-3	n-Hexane	220	2.3	1.4	0.49	
67-66-3	Chloroform	0.75	2.3	0.75	0.31	J
109-99-9	Tetrahydrofuran (THF)	110	4.4	0.75	0.30	
107-06-2	1,2-Dichloroethane	0.75	2.3	0.75	0.26	U
71-43-2	Benzene	22	2.3	0.75	0.34	
56-23-5	Carbon Tetrachloride	0.99	2.3	0.75	0.33	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-050-604

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-006

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SC00272

Initial Pressure (psig): -2.59 Final Pressure (psig): 6.73

Container Dilution Factor: 1.77

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	180	4.4	1.5	0.66	
75-27-4	Bromodichloromethane	0.75	2.3	0.75	0.34	U
79-01-6	Trichloroethene	0.37	2.3	0.75	0.32	J
123-91-1	1,4-Dioxane	0.75	2.3	0.75	0.28	U
142-82-5	n-Heptane	380	23	14	3.8	D
108-10-1	4-Methyl-2-pentanone	0.75	4.4	0.75	0.32	U
108-88-3	Toluene	88	2.3	0.75	0.29	
591-78-6	2-Hexanone	0.75	4.4	0.75	0.29	U
124-48-1	Dibromochloromethane	0.75	2.3	0.75	0.31	U
106-93-4	1,2-Dibromoethane	0.75	2.3	0.75	0.27	U
127-18-4	Tetrachloroethene	8.6	2.3	0.75	0.31	
100-41-4	Ethylbenzene	3.8	2.3	0.75	0.33	
179601-23-1	m,p-Xylenes	24	4.4	1.5	0.62	
75-25-2	Bromoform	1.4	2.3	1.4	0.49	U
100-42-5	Styrene	1.4	2.3	1.4	0.38	U
95-47-6	o-Xylene	9.1	2.3	0.75	0.34	
108-67-8	1,3,5-Trimethylbenzene	1.9	2.3	0.75	0.34	J
95-63-6	1,2,4-Trimethylbenzene	1.3	2.3	0.75	0.33	J
120-82-1	1,2,4-Trichlorobenzene	1.4	4.4	1.4	0.58	U
91-20-3	Naphthalene	1.4	2.3	1.4	0.58	U
1330-20-7	Xylenes, Total	33	4.4	1.5	0.62	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-007

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00878

Initial Pressure (psig): 0.01 Final Pressure (psig): 6.73

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.9	1.9	1.2	0.47	
75-71-8	Dichlorodifluoromethane (CFC 12)	5.1	1.9	1.2	0.32	
74-87-3	Chloromethane	1.2	1.9	1.2	0.31	U
75-01-4	Vinyl Chloride	0.62	1.9	0.62	0.21	U
106-99-0	1,3-Butadiene	1.2	1.9	1.2	0.32	U
75-00-3	Chloroethane	1.2	1.9	1.2	0.24	U
64-17-5	Ethanol	20	19	3.0	1.4	
67-64-1	Acetone	17	19	9.9	4.4	J
75-69-4	Trichlorofluoromethane	12	1.9	1.2	0.30	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	3.7	2.3	0.80	J
75-09-2	Methylene Chloride	5.6	1.9	1.2	0.55	
76-13-1	Trichlorotrifluoroethane	65	1.9	0.62	0.28	
75-15-0	Carbon Disulfide	2.4	3.7	2.0	0.58	J
75-34-3	1,1-Dichloroethane	1.2	2.0	1.2	0.28	U
78-93-3	2-Butanone (MEK)	4.8	3.7	1.2	0.40	
141-78-6	Ethyl Acetate	4.1	3.7	2.4	1.0	
110-54-3	n-Hexane	0.54	1.9	1.2	0.40	J
67-66-3	Chloroform	0.62	1.9	0.62	0.26	U
109-99-9	Tetrahydrofuran (THF)	46	3.7	0.62	0.24	
107-06-2	1,2-Dichloroethane	0.62	1.9	0.62	0.22	U
71-43-2	Benzene	0.71	1.9	0.62	0.28	J
56-23-5	Carbon Tetrachloride	0.97	1.9	0.62	0.27	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV05-050-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-007

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00878

Initial Pressure (psig): 0.01 Final Pressure (psig): 6.73

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.2	3.7	1.2	0.55	U
75-27-4	Bromodichloromethane	0.62	1.9	0.62	0.28	U
79-01-6	Trichloroethene	0.62	1.9	0.62	0.26	U
123-91-1	1,4-Dioxane	0.62	1.9	0.62	0.23	U
142-82-5	n-Heptane	<b>0.85</b>	1.9	1.2	0.31	J
108-10-1	4-Methyl-2-pentanone	0.62	3.7	0.62	0.27	U
108-88-3	Toluene	<b>2.3</b>	1.9	0.62	0.24	J
591-78-6	2-Hexanone	<b>1.2</b>	3.7	0.62	0.24	J
124-48-1	Dibromochloromethane	0.62	1.9	0.62	0.26	U
106-93-4	1,2-Dibromoethane	0.62	1.9	0.62	0.23	U
127-18-4	Tetrachloroethene	<b>1.6</b>	1.9	0.62	0.25	J
100-41-4	Ethylbenzene	<b>0.35</b>	1.9	0.62	0.27	J
179601-23-1	m,p-Xylenes	<b>1.3</b>	3.7	1.2	0.51	J
75-25-2	Bromoform	1.2	1.9	1.2	0.40	U
100-42-5	Styrene	1.2	1.9	1.2	0.31	U
95-47-6	o-Xylene	<b>0.61</b>	1.9	0.62	0.28	J
108-67-8	1,3,5-Trimethylbenzene	0.62	1.9	0.62	0.28	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.55</b>	1.9	0.62	0.27	J
120-82-1	1,2,4-Trichlorobenzene	1.2	3.7	1.2	0.47	U
91-20-3	Naphthalene	1.1	1.9	1.1	0.47	U
1330-20-7	Xylenes, Total	<b>1.9</b>	3.7	1.2	0.51	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-008

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00812

Initial Pressure (psig): -0.02 Final Pressure (psig): 5.27

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	3.9	1.8	1.1	0.44	
75-71-8	Dichlorodifluoromethane (CFC 12)	7.1	1.8	1.1	0.30	
74-87-3	Chloromethane	1.1	1.8	1.1	0.29	U
75-01-4	Vinyl Chloride	0.58	1.8	0.58	0.19	U
106-99-0	1,3-Butadiene	1.1	1.8	1.1	0.30	U
75-00-3	Chloroethane	1.1	1.8	1.1	0.22	U
64-17-5	Ethanol	24	18	2.8	1.3	
67-64-1	Acetone	14	18	9.2	4.1	J
75-69-4	Trichlorofluoromethane	4.7	1.7	1.1	0.28	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	3.4	2.1	0.75	J
75-09-2	Methylene Chloride	7.8	1.8	1.1	0.51	
76-13-1	Trichlorotrifluoroethane	86	1.8	0.58	0.26	
75-15-0	Carbon Disulfide	7.2	3.4	1.8	0.54	
75-34-3	1,1-Dichloroethane	1.1	1.8	1.1	0.27	U
78-93-3	2-Butanone (MEK)	3.9	3.4	1.1	0.37	
141-78-6	Ethyl Acetate	4.0	3.4	2.2	0.95	
110-54-3	n-Hexane	4.4	1.8	1.1	0.37	
67-66-3	Chloroform	0.58	1.8	0.58	0.24	U
109-99-9	Tetrahydrofuran (THF)	2.4	3.4	0.58	0.23	J
107-06-2	1,2-Dichloroethane	0.58	1.8	0.58	0.20	U
71-43-2	Benzene	0.90	1.8	0.58	0.26	J
56-23-5	Carbon Tetrachloride	0.99	1.7	0.58	0.25	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-008

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00812

Initial Pressure (psig): -0.02 Final Pressure (psig): 5.27

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>35</b>	3.4	1.2	0.51	
75-27-4	Bromodichloromethane	0.58	1.8	0.58	0.26	U
79-01-6	Trichloroethene	0.58	1.7	0.58	0.24	U
123-91-1	1,4-Dioxane	<b>0.44</b>	1.8	0.58	0.21	J
142-82-5	n-Heptane	<b>0.39</b>	1.8	1.1	0.29	J
108-10-1	4-Methyl-2-pentanone	0.58	3.4	0.58	0.25	U
108-88-3	Toluene	<b>1.4</b>	1.8	0.58	0.22	J
591-78-6	2-Hexanone	0.58	3.4	0.58	0.22	U
124-48-1	Dibromochloromethane	0.58	1.8	0.58	0.24	U
106-93-4	1,2-Dibromoethane	0.58	1.8	0.58	0.21	U
127-18-4	Tetrachloroethene	<b>2.1</b>	1.8	0.58	0.23	
100-41-4	Ethylbenzene	<b>0.29</b>	1.8	0.58	0.26	J
179601-23-1	m,p-Xylenes	<b>0.89</b>	3.4	1.2	0.48	J
75-25-2	Bromoform	1.1	1.8	1.1	0.37	U
100-42-5	Styrene	1.1	1.8	1.1	0.29	U
95-47-6	o-Xylene	<b>0.43</b>	1.8	0.58	0.26	J
108-67-8	1,3,5-Trimethylbenzene	0.58	1.8	0.58	0.26	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.34</b>	1.8	0.58	0.25	J
120-82-1	1,2,4-Trichlorobenzene	1.1	3.4	1.1	0.44	U
91-20-3	Naphthalene	1.1	1.8	1.1	0.44	U
1330-20-7	Xylenes, Total	<b>1.3</b>	3.4	1.2	0.48	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-230-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-009

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00786

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.00030 Liter(s)

0.000050 Liter(s)

Initial Pressure (psig): -2.52 Final Pressure (psig): 5.77

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	14,000	2,900	1,800	730	
75-71-8	Dichlorodifluoromethane (CFC 12)	1,800	2,900	1,800	490	U
74-87-3	Chloromethane	1,800	2,900	1,800	480	U
75-01-4	Vinyl Chloride	950	3,000	950	320	U
106-99-0	1,3-Butadiene	1,800	2,900	1,800	490	U
75-00-3	Chloroethane	1,800	2,900	1,800	370	U
64-17-5	Ethanol	4,600	30,000	4,600	2,100	U
67-64-1	Acetone	15,000	29,000	15,000	6,700	U
75-69-4	Trichlorofluoromethane	1,800	2,900	1,800	450	U
67-63-0	2-Propanol (Isopropyl Alcohol)	3,500	5,600	3,500	1,200	U
75-09-2	Methylene Chloride	1,800	2,900	1,800	840	U
76-13-1	Trichlorotrifluoroethane	570	3,000	950	430	J
75-15-0	Carbon Disulfide	3,000	5,600	3,000	900	U
75-34-3	1,1-Dichloroethane	1,800	3,000	1,800	440	U
78-93-3	2-Butanone (MEK)	1,800	5,600	1,800	620	U
141-78-6	Ethyl Acetate	3,600	5,600	3,600	1,600	U
110-54-3	n-Hexane	1,300,000	17,000	11,000	3,700	D
67-66-3	Chloroform	950	3,000	950	400	U
109-99-9	Tetrahydrofuran (THF)	950	5,600	950	380	U
107-06-2	1,2-Dichloroethane	950	2,900	950	330	U
71-43-2	Benzene	38,000	2,900	950	430	
56-23-5	Carbon Tetrachloride	950	2,900	950	410	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-230-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-009

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00030 Liter(s)

Test Notes:

0.000050 Liter(s)

Container ID: 1SS00786

Initial Pressure (psig): -2.52 Final Pressure (psig): 5.77

Container Dilution Factor: 1.68

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1,200,000	34,000	11,000	5,000	D
75-27-4	Bromodichloromethane	950	2,900	950	430	U
79-01-6	Trichloroethene	510	2,900	950	400	J
123-91-1	1,4-Dioxane	950	2,900	950	350	U
142-82-5	n-Heptane	1,300,000	17,000	11,000	2,900	D
108-10-1	4-Methyl-2-pentanone	950	5,600	950	410	U
108-88-3	Toluene	67,000	2,900	950	360	
591-78-6	2-Hexanone	950	5,600	950	370	U
124-48-1	Dibromochloromethane	950	2,900	950	390	U
106-93-4	1,2-Dibromoethane	950	2,900	950	350	U
127-18-4	Tetrachloroethene	720	2,900	950	390	J
100-41-4	Ethylbenzene	1,800	2,900	950	420	J
179601-23-1	m,p-Xylenes	9,200	5,600	1,900	780	
75-25-2	Bromoform	1,800	3,000	1,800	620	U
100-42-5	Styrene	1,800	2,900	1,800	480	U
95-47-6	o-Xylene	2,900	3,000	950	430	J
108-67-8	1,3,5-Trimethylbenzene	950	3,000	950	430	U
95-63-6	1,2,4-Trimethylbenzene	950	2,900	950	410	U
120-82-1	1,2,4-Trichlorobenzene	1,800	5,600	1,800	730	U
91-20-3	Naphthalene	1,700	2,900	1,700	730	U
1330-20-7	Xylenes, Total	12,000	5,600	1,900	780	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-290-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-010

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00251

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.13 Liter(s)

0.030 Liter(s)

Initial Pressure (psig): -2.20 Final Pressure (psig): 6.01

Container Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	18	6.6	4.1	1.7	
75-71-8	Dichlorodifluoromethane (CFC 12)	27	6.6	4.1	1.1	
74-87-3	Chloromethane	4.1	6.6	4.1	1.1	U
75-01-4	Vinyl Chloride	2.2	6.8	2.2	0.73	U
106-99-0	1,3-Butadiene	4.1	6.6	4.1	1.1	U
75-00-3	Chloroethane	4.1	6.6	4.1	0.84	U
64-17-5	Ethanol	9.6	68	11	4.7	J
67-64-1	Acetone	34	66	34	15	U
75-69-4	Trichlorofluoromethane	5.0	6.5	4.1	1.0	J
67-63-0	2-Propanol (Isopropyl Alcohol)	8.0	13	8.0	2.8	U
75-09-2	Methylene Chloride	4.1	6.6	4.1	1.9	U
76-13-1	Trichlorotrifluoroethane	920	6.8	2.2	0.97	
75-15-0	Carbon Disulfide	6.9	13	6.9	2.0	U
75-34-3	1,1-Dichloroethane	4.2	6.9	4.2	1.0	U
78-93-3	2-Butanone (MEK)	5.0	13	4.1	1.4	J
141-78-6	Ethyl Acetate	8.3	13	8.3	3.6	U
110-54-3	n-Hexane	1,900	29	18	6.1	D
67-66-3	Chloroform	2.2	6.8	2.2	0.91	U
109-99-9	Tetrahydrofuran (THF)	2.2	13	2.2	0.86	U
107-06-2	1,2-Dichloroethane	2.2	6.6	2.2	0.75	U
71-43-2	Benzene	41	6.6	2.2	0.98	
56-23-5	Carbon Tetrachloride	35	6.5	2.2	0.94	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV05-290-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-010

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.13 Liter(s)

Test Notes:

0.030 Liter(s)

Container ID: 1SC00251

Initial Pressure (psig): -2.20 Final Pressure (psig): 6.01

Container Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2,200	55	19	8.3	D
75-27-4	Bromodichloromethane	2.2	6.6	2.2	0.98	U
79-01-6	Trichloroethene	2.5	6.5	2.2	0.92	J
123-91-1	1,4-Dioxane	2.2	6.6	2.2	0.80	U
142-82-5	n-Heptane	1,200	29	18	4.7	D
108-10-1	4-Methyl-2-pentanone	2.2	13	2.2	0.93	U
108-88-3	Toluene	52	6.6	2.2	0.83	
591-78-6	2-Hexanone	2.2	13	2.2	0.84	U
124-48-1	Dibromochloromethane	2.2	6.6	2.2	0.89	U
106-93-4	1,2-Dibromoethane	2.2	6.6	2.2	0.79	U
127-18-4	Tetrachloroethene	24	6.6	2.2	0.88	
100-41-4	Ethylbenzene	1.7	6.6	2.2	0.96	J
179601-23-1	m,p-Xylenes	16	13	4.3	1.8	
75-25-2	Bromoform	4.1	6.8	4.1	1.4	U
100-42-5	Styrene	4.1	6.6	4.1	1.1	U
95-47-6	o-Xylene	6.6	6.8	2.2	0.98	J
108-67-8	1,3,5-Trimethylbenzene	1.3	6.8	2.2	0.98	J
95-63-6	1,2,4-Trimethylbenzene	2.2	6.6	2.2	0.94	U
120-82-1	1,2,4-Trichlorobenzene	4.1	13	4.1	1.7	U
91-20-3	Naphthalene	4.0	6.6	4.0	1.7	U
1330-20-7	Xylenes, Total	23	13	4.3	1.8	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00397

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.41 Final Pressure (psig): 7.22

Container Dilution Factor: 2.13

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.4	2.8	1.7	0.69	J
75-71-8	Dichlorodifluoromethane (CFC 12)	23	2.8	1.7	0.46	
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	U
75-01-4	Vinyl Chloride	0.91	2.8	0.91	0.30	U
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	U
64-17-5	Ethanol	27	28	4.4	2.0	J
67-64-1	Acetone	31	28	14	6.4	
75-69-4	Trichlorofluoromethane	4.5	2.7	1.7	0.43	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.4	5.3	3.4	1.2	U
75-09-2	Methylene Chloride	1.1	2.8	1.7	0.80	J
76-13-1	Trichlorotrifluoroethane	32	2.8	0.91	0.40	
75-15-0	Carbon Disulfide	41	5.3	2.9	0.85	
75-34-3	1,1-Dichloroethane	1.8	2.9	1.8	0.42	U
78-93-3	2-Butanone (MEK)	5.8	5.3	1.7	0.59	
141-78-6	Ethyl Acetate	7.9	5.3	3.5	1.5	
110-54-3	n-Hexane	0.91	2.8	1.7	0.59	J
67-66-3	Chloroform	0.91	2.8	0.91	0.38	U
109-99-9	Tetrahydrofuran (THF)	1.7	5.3	0.91	0.36	J
107-06-2	1,2-Dichloroethane	0.91	2.8	0.91	0.31	U
71-43-2	Benzene	1.1	2.8	0.91	0.41	J
56-23-5	Carbon Tetrachloride	12	2.7	0.91	0.39	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-050-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-011

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00397

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.41 Final Pressure (psig): 7.22

Container Dilution Factor: 2.13

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.8	5.3	1.8	0.80	U
75-27-4	Bromodichloromethane	0.91	2.8	0.91	0.41	U
79-01-6	Trichloroethene	0.91	2.7	0.91	0.38	U
123-91-1	1,4-Dioxane	<b>1.0</b>	2.8	0.91	0.34	J
142-82-5	n-Heptane	<b>1.7</b>	2.8	1.7	0.45	J
108-10-1	4-Methyl-2-pentanone	0.91	5.3	0.91	0.39	U
108-88-3	Toluene	<b>5.5</b>	2.8	0.91	0.35	J
591-78-6	2-Hexanone	<b>0.78</b>	5.3	0.91	0.35	J
124-48-1	Dibromochloromethane	0.91	2.8	0.91	0.37	U
106-93-4	1,2-Dibromoethane	0.91	2.8	0.91	0.33	U
127-18-4	Tetrachloroethene	<b>1.5</b>	2.8	0.91	0.37	J
100-41-4	Ethylbenzene	<b>0.54</b>	2.8	0.91	0.40	J
179601-23-1	m,p-Xylenes	<b>2.6</b>	5.3	1.8	0.75	J
75-25-2	Bromoform	1.7	2.8	1.7	0.59	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	<b>0.88</b>	2.8	0.91	0.41	J
108-67-8	1,3,5-Trimethylbenzene	0.91	2.8	0.91	0.41	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.70</b>	2.8	0.91	0.39	J
120-82-1	1,2,4-Trichlorobenzene	1.7	5.3	1.7	0.69	U
91-20-3	Naphthalene	1.7	2.8	1.7	0.69	U
1330-20-7	Xylenes, Total	<b>3.5</b>	5.3	1.8	0.75	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-100-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-012

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC01195

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.58 Final Pressure (psig): 5.55

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	100	2.4	1.5	0.59	
75-71-8	Dichlorodifluoromethane (CFC 12)	26	2.4	1.5	0.40	
74-87-3	Chloromethane	6.2	2.4	1.5	0.39	
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	U
106-99-0	1,3-Butadiene	0.77	2.4	1.5	0.40	J
75-00-3	Chloroethane	6.3	2.4	1.5	0.30	
64-17-5	Ethanol	24	24	3.8	1.7	J
67-64-1	Acetone	1,400	24	12	5.5	
75-69-4	Trichlorofluoromethane	4.6	2.3	1.5	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	14	4.6	2.9	1.0	
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.68	U
76-13-1	Trichlorotrifluoroethane	41	2.4	0.77	0.35	
75-15-0	Carbon Disulfide	55	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.35	U
78-93-3	2-Butanone (MEK)	830	4.6	1.5	0.50	
141-78-6	Ethyl Acetate	2.9	4.6	3.0	1.3	J
110-54-3	n-Hexane	5.4	2.4	1.5	0.50	
67-66-3	Chloroform	3.0	2.4	0.77	0.32	
109-99-9	Tetrahydrofuran (THF)	2.7	4.6	0.77	0.30	J
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	3.4	2.4	0.77	0.35	
56-23-5	Carbon Tetrachloride	9.7	2.3	0.77	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-100-604

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-012

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC01195

Initial Pressure (psig): -3.58 Final Pressure (psig): 5.55

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	3.3	4.6	1.5	0.68	J
75-27-4	Bromodichloromethane	0.77	2.4	0.77	0.35	U
79-01-6	Trichloroethene	0.77	2.3	0.77	0.33	U
123-91-1	1,4-Dioxane	0.77	2.4	0.77	0.29	U
142-82-5	n-Heptane	9.0	2.4	1.5	0.39	
108-10-1	4-Methyl-2-pentanone	40	4.6	0.77	0.33	
108-88-3	Toluene	19	2.4	0.77	0.30	
591-78-6	2-Hexanone	12	4.6	0.77	0.30	
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	1.5	2.4	0.77	0.31	J
100-41-4	Ethylbenzene	1.7	2.4	0.77	0.34	J
179601-23-1	m,p-Xylenes	9.4	4.6	1.5	0.64	
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.2	2.4	1.5	0.39	J
95-47-6	o-Xylene	2.6	2.4	0.77	0.35	
108-67-8	1,3,5-Trimethylbenzene	0.89	2.4	0.77	0.35	J
95-63-6	1,2,4-Trimethylbenzene	2.0	2.4	0.77	0.34	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	3.4	2.4	1.4	0.59	
1330-20-7	Xylenes, Total	12	4.6	1.5	0.64	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-100-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-013

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00784

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.20 Final Pressure (psig): 4.44

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.78	2.4	1.5	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	26	2.4	1.5	0.40	
74-87-3	Chloromethane	1.5	2.4	1.5	0.39	U
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	5.2	24	3.8	1.7	J
67-64-1	Acetone	18	24	12	5.5	J
75-69-4	Trichlorofluoromethane	4.7	2.3	1.5	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.68	U
76-13-1	Trichlorotrifluoroethane	42	2.4	0.77	0.35	
75-15-0	Carbon Disulfide	33	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.35	U
78-93-3	2-Butanone (MEK)	3.9	4.6	1.5	0.50	J
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U
110-54-3	n-Hexane	0.67	2.4	1.5	0.50	J
67-66-3	Chloroform	2.7	2.4	0.77	0.32	
109-99-9	Tetrahydrofuran (THF)	0.38	4.6	0.77	0.30	J
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	1.1	2.4	0.77	0.35	J
56-23-5	Carbon Tetrachloride	11	2.3	0.77	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-100-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-013

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00784

Initial Pressure (psig): -4.20 Final Pressure (psig): 4.44

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1.5	4.6	1.5	0.68	U
75-27-4	Bromodichloromethane	0.77	2.4	0.77	0.35	U
79-01-6	Trichloroethene	0.77	2.3	0.77	0.33	U
123-91-1	1,4-Dioxane	1.2	2.4	0.77	0.29	J
142-82-5	n-Heptane	1.3	2.4	1.5	0.39	J
108-10-1	4-Methyl-2-pentanone	0.77	4.6	0.77	0.33	U
108-88-3	Toluene	4.4	2.4	0.77	0.30	J
591-78-6	2-Hexanone	0.57	4.6	0.77	0.30	J
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	1.6	2.4	0.77	0.31	J
100-41-4	Ethylbenzene	0.43	2.4	0.77	0.34	J
179601-23-1	m,p-Xylenes	2.4	4.6	1.5	0.64	J
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	0.83	2.4	0.77	0.35	J
108-67-8	1,3,5-Trimethylbenzene	0.40	2.4	0.77	0.35	J
95-63-6	1,2,4-Trimethylbenzene	0.78	2.4	0.77	0.34	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	1.8	2.4	1.4	0.59	J
1330-20-7	Xylenes, Total	3.2	4.6	1.5	0.64	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-252-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-014

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00874

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.0015 Liter(s)

0.00030 Liter(s)

Initial Pressure (psig): 0.03 Final Pressure (psig): 6.49

Container Dilution Factor: 1.44

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	290	500	310	120	J
75-71-8	Dichlorodifluoromethane (CFC 12)	310	500	310	84	U
74-87-3	Chloromethane	310	500	310	83	U
75-01-4	Vinyl Chloride	160	510	160	55	U
106-99-0	1,3-Butadiene	310	500	310	84	U
75-00-3	Chloroethane	310	500	310	63	U
64-17-5	Ethanol	800	5,100	800	360	U
67-64-1	Acetone	2,600	5,000	2,600	1,200	U
75-69-4	Trichlorofluoromethane	310	490	310	78	U
67-63-0	2-Propanol (Isopropyl Alcohol)	600	960	600	210	U
75-09-2	Methylene Chloride	310	500	310	140	U
76-13-1	Trichlorotrifluoroethane	180	510	160	73	J
75-15-0	Carbon Disulfide	520	960	520	150	U
75-34-3	1,1-Dichloroethane	320	520	320	75	U
78-93-3	2-Butanone (MEK)	310	960	310	110	U
141-78-6	Ethyl Acetate	620	960	620	270	U
110-54-3	n-Hexane	17,000	500	310	110	
67-66-3	Chloroform	160	510	160	68	U
109-99-9	Tetrahydrofuran (THF)	160	960	160	64	U
107-06-2	1,2-Dichloroethane	160	500	160	57	U
71-43-2	Benzene	210,000	2,500	820	370	D
56-23-5	Carbon Tetrachloride	160	490	160	71	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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Client: EA Engineering, Science, and Technology, Inc.

Client Sample ID: SV06-252-204

Client Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-014

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/12/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

0.00030 Liter(s)

Container ID: 1SS00874

Initial Pressure (psig): 0.03 Final Pressure (psig): 6.49

Container Dilution Factor: 1.44

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	140,000	960	330	140	
75-27-4	Bromodichloromethane	160	500	160	74	U
79-01-6	Trichloroethene	86	490	160	69	J
123-91-1	1,4-Dioxane	160	500	160	60	U
142-82-5	n-Heptane	310	500	310	82	J
108-10-1	4-Methyl-2-pentanone	160	960	160	70	U
108-88-3	Toluene	7,700	500	160	62	
591-78-6	2-Hexanone	160	960	160	63	U
124-48-1	Dibromochloromethane	160	500	160	67	U
106-93-4	1,2-Dibromoethane	160	500	160	60	U
127-18-4	Tetrachloroethene	140	500	160	66	J
100-41-4	Ethylbenzene	120	500	160	72	J
179601-23-1	m,p-Xylenes	1,200	960	330	130	
75-25-2	Bromoform	310	510	310	110	U
100-42-5	Styrene	310	500	310	83	U
95-47-6	o-Xylene	2,900	510	160	74	
108-67-8	1,3,5-Trimethylbenzene	180	510	160	74	J
95-63-6	1,2,4-Trimethylbenzene	120	500	160	71	J
120-82-1	1,2,4-Trichlorobenzene	310	960	310	120	U
91-20-3	Naphthalene	300	500	300	120	U
1330-20-7	Xylenes, Total	4,100	960	330	130	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-302-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01028

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -3.96 Final Pressure (psig): 7.42

Container Dilution Factor: 2.06

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	34	27	16	6.7	
75-71-8	Dichlorodifluoromethane (CFC 12)	26	27	16	4.5	J
74-87-3	Chloromethane	16	27	16	4.4	U
75-01-4	Vinyl Chloride	8.8	27	8.8	2.9	U
106-99-0	1,3-Butadiene	16	27	16	4.5	U
75-00-3	Chloroethane	16	27	16	3.4	U
64-17-5	Ethanol	43	270	43	19	U
67-64-1	Acetone	140	270	140	62	U
75-69-4	Trichlorofluoromethane	14	26	16	4.2	J
67-63-0	2-Propanol (Isopropyl Alcohol)	32	52	32	11	U
75-09-2	Methylene Chloride	16	27	16	7.7	U
76-13-1	Trichlorotrifluoroethane	140	27	8.8	3.9	
75-15-0	Carbon Disulfide	28	52	28	8.2	U
75-34-3	1,1-Dichloroethane	17	28	17	4.0	U
78-93-3	2-Butanone (MEK)	16	52	16	5.7	U
141-78-6	Ethyl Acetate	33	52	33	14	U
110-54-3	n-Hexane	330	27	16	5.7	
67-66-3	Chloroform	11	27	8.8	3.7	J
109-99-9	Tetrahydrofuran (THF)	8.8	52	8.8	3.5	U
107-06-2	1,2-Dichloroethane	8.8	27	8.8	3.0	U
71-43-2	Benzene	77	27	8.8	4.0	
56-23-5	Carbon Tetrachloride	53	26	8.8	3.8	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-302-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-015

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS01028

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.040 Liter(s)

Initial Pressure (psig): -3.96 Final Pressure (psig): 7.42

Container Dilution Factor: 2.06

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>6,300</b>	52	18	7.7	
75-27-4	Bromodichloromethane	8.8	27	8.8	4.0	U
79-01-6	Trichloroethene	8.8	26	8.8	3.7	U
123-91-1	1,4-Dioxane	8.8	27	8.8	3.2	U
142-82-5	n-Heptane	16	27	16	4.4	U
108-10-1	4-Methyl-2-pentanone	8.8	52	8.8	3.8	U
108-88-3	Toluene	<b>14</b>	27	8.8	3.3	J
591-78-6	2-Hexanone	8.8	52	8.8	3.4	U
124-48-1	Dibromochloromethane	8.8	27	8.8	3.6	U
106-93-4	1,2-Dibromoethane	<b>27</b>	27	8.8	3.2	
127-18-4	Tetrachloroethene	8.8	27	8.8	3.6	U
100-41-4	Ethylbenzene	8.8	27	8.8	3.9	U
179601-23-1	m,p-Xylenes	18	52	18	7.2	U
75-25-2	Bromoform	16	27	16	5.7	U
100-42-5	Styrene	16	27	16	4.4	U
95-47-6	o-Xylene	<b>11</b>	27	8.8	4.0	J
108-67-8	1,3,5-Trimethylbenzene	<b>4.8</b>	27	8.8	4.0	J
95-63-6	1,2,4-Trimethylbenzene	8.8	27	8.8	3.8	U
120-82-1	1,2,4-Trichlorobenzene	16	52	16	6.7	U
91-20-3	Naphthalene	16	27	16	6.7	U
1330-20-7	Xylenes, Total	<b>11</b>	52	18	7.2	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00328

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.68 Final Pressure (psig): 7.31

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.3	2.4	1.5	0.59	J
75-71-8	Dichlorodifluoromethane (CFC 12)	32	2.4	1.5	0.40	
74-87-3	Chloromethane	0.55	2.4	1.5	0.39	J
75-01-4	Vinyl Chloride	5.2	2.4	0.78	0.26	
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	14	24	3.8	1.7	J
67-64-1	Acetone	36	24	12	5.5	
75-69-4	Trichlorofluoromethane	5.2	2.3	1.5	0.37	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.6	4.6	2.9	1.0	J
75-09-2	Methylene Chloride	2.3	2.4	1.5	0.69	J
76-13-1	Trichlorotrifluoroethane	510	24	7.8	3.5	D
75-15-0	Carbon Disulfide	5.0	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	7.7	4.6	1.5	0.50	
141-78-6	Ethyl Acetate	3.6	4.6	3.0	1.3	J
110-54-3	n-Hexane	0.92	2.4	1.5	0.50	J
67-66-3	Chloroform	4.7	2.4	0.78	0.32	
109-99-9	Tetrahydrofuran (THF)	2.6	4.6	0.78	0.31	J
107-06-2	1,2-Dichloroethane	0.78	2.4	0.78	0.27	U
71-43-2	Benzene	1.6	2.4	0.78	0.35	J
56-23-5	Carbon Tetrachloride	36	2.3	0.78	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-016

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00328

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -2.68 Final Pressure (psig): 7.31

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	3.5	4.6	1.6	0.69	J
75-27-4	Bromodichloromethane	0.78	2.4	0.78	0.35	U
79-01-6	Trichloroethene	110	2.3	0.78	0.33	
123-91-1	1,4-Dioxane	0.78	2.4	0.78	0.29	U
142-82-5	n-Heptane	0.56	2.4	1.5	0.39	J
108-10-1	4-Methyl-2-pentanone	0.34	4.6	0.78	0.33	J
108-88-3	Toluene	3.6	2.4	0.78	0.30	
591-78-6	2-Hexanone	0.75	4.6	0.78	0.30	J
124-48-1	Dibromochloromethane	0.78	2.4	0.78	0.32	U
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.28	U
127-18-4	Tetrachloroethene	19	2.4	0.78	0.32	
100-41-4	Ethylbenzene	0.78	2.4	0.78	0.34	U
179601-23-1	m,p-Xylenes	1.7	4.6	1.6	0.64	J
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	0.49	2.4	0.78	0.35	J
108-67-8	1,3,5-Trimethylbenzene	0.78	2.4	0.78	0.35	U
95-63-6	1,2,4-Trimethylbenzene	1.0	2.4	0.78	0.34	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	2.2	4.6	1.6	0.64	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-017

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SS00153

Initial Pressure (psig): -3.70 Final Pressure (psig): 6.37

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	18	2.5	1.5	0.62	
75-71-8	Dichlorodifluoromethane (CFC 12)	18	2.5	1.5	0.42	
74-87-3	Chloromethane	1.5	2.5	1.5	0.41	U
75-01-4	Vinyl Chloride	9.0	2.5	0.82	0.27	
106-99-0	1,3-Butadiene	1.5	2.5	1.5	0.42	U
75-00-3	Chloroethane	0.35	2.5	1.5	0.32	J
64-17-5	Ethanol	1.8	25	4.0	1.8	J
67-64-1	Acetone	13	25	13	5.8	U
75-69-4	Trichlorofluoromethane	5.5	2.4	1.5	0.39	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.0	4.8	3.0	1.1	U
75-09-2	Methylene Chloride	1.5	2.5	1.5	0.72	U
76-13-1	Trichlorotrifluoroethane	1,300	25	8.2	3.6	D
75-15-0	Carbon Disulfide	8.9	4.8	2.6	0.77	
75-34-3	1,1-Dichloroethane	1.6	2.6	1.6	0.37	U
78-93-3	2-Butanone (MEK)	1.0	4.8	1.5	0.53	J
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	260	2.5	1.5	0.53	
67-66-3	Chloroform	11	2.5	0.82	0.34	
109-99-9	Tetrahydrofuran (THF)	2.4	4.8	0.82	0.32	J
107-06-2	1,2-Dichloroethane	0.82	2.5	0.82	0.28	U
71-43-2	Benzene	540	25	8.2	3.7	D
56-23-5	Carbon Tetrachloride	37	2.4	0.82	0.36	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-250-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-017

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SS00153

Initial Pressure (psig): -3.70 Final Pressure (psig): 6.37

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>800</b>	4.8	1.6	0.72	
75-27-4	Bromodichloromethane	0.82	2.5	0.82	0.37	U
79-01-6	Trichloroethene	<b>110</b>	2.4	0.82	0.35	
123-91-1	1,4-Dioxane	0.82	2.5	0.82	0.30	U
142-82-5	n-Heptane	<b>2.4</b>	2.5	1.5	0.41	J
108-10-1	4-Methyl-2-pentanone	0.82	4.8	0.82	0.35	U
108-88-3	Toluene	<b>68</b>	2.5	0.82	0.31	
591-78-6	2-Hexanone	0.82	4.8	0.82	0.32	U
124-48-1	Dibromochloromethane	0.82	2.5	0.82	0.34	U
106-93-4	1,2-Dibromoethane	0.82	2.5	0.82	0.30	U
127-18-4	Tetrachloroethene	<b>18</b>	2.5	0.82	0.33	
100-41-4	Ethylbenzene	<b>1.1</b>	2.5	0.82	0.36	J
179601-23-1	m,p-Xylenes	<b>4.8</b>	4.8	1.6	0.67	J
75-25-2	Bromoform	1.5	2.5	1.5	0.53	U
100-42-5	Styrene	1.5	2.5	1.5	0.41	U
95-47-6	o-Xylene	<b>9.4</b>	2.5	0.82	0.37	
108-67-8	1,3,5-Trimethylbenzene	<b>1.6</b>	2.5	0.82	0.37	J
95-63-6	1,2,4-Trimethylbenzene	<b>0.71</b>	2.5	0.82	0.36	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.8	1.5	0.62	U
91-20-3	Naphthalene	1.5	2.5	1.5	0.62	U
1330-20-7	Xylenes, Total	<b>14</b>	4.8	1.6	0.67	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-018

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00484

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -3.74 Final Pressure (psig): 5.33

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	11	2.4	1.5	0.59	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.1	2.4	1.5	0.40	J
74-87-3	Chloromethane	0.72	2.4	1.5	0.39	J
75-01-4	Vinyl Chloride	620	24	7.8	2.6	D
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	14	2.4	1.5	0.30	
64-17-5	Ethanol	49	24	3.8	1.7	
67-64-1	Acetone	34	24	12	5.5	
75-69-4	Trichlorofluoromethane	0.41	2.3	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	1.9	4.6	2.9	1.0	J
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.69	U
76-13-1	Trichlorotrifluoroethane	31	2.4	0.78	0.35	
75-15-0	Carbon Disulfide	35	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.36	U
78-93-3	2-Butanone (MEK)	7.4	4.6	1.5	0.50	
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U
110-54-3	n-Hexane	2.7	2.4	1.5	0.50	
67-66-3	Chloroform	0.53	2.4	0.78	0.32	J
109-99-9	Tetrahydrofuran (THF)	2.5	4.6	0.78	0.31	J
107-06-2	1,2-Dichloroethane	2.9	2.4	0.78	0.27	
71-43-2	Benzene	1.3	2.4	0.78	0.35	J
56-23-5	Carbon Tetrachloride	3.9	2.3	0.78	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-350-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-018

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

0.040 Liter(s)

Container ID: 1SC00484

Initial Pressure (psig): -3.74 Final Pressure (psig): 5.33

Container Dilution Factor: 1.83

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>8.5</b>	4.6	1.6	0.69	
75-27-4	Bromodichloromethane	0.78	2.4	0.78	0.35	U
79-01-6	Trichloroethene	<b>0.68</b>	2.3	0.78	0.33	J
123-91-1	1,4-Dioxane	0.78	2.4	0.78	0.29	U
142-82-5	n-Heptane	<b>0.74</b>	2.4	1.5	0.39	J
108-10-1	4-Methyl-2-pentanone	<b>0.40</b>	4.6	0.78	0.33	J
108-88-3	Toluene	<b>1.9</b>	2.4	0.78	0.30	J
591-78-6	2-Hexanone	<b>1.9</b>	4.6	0.78	0.30	J
124-48-1	Dibromochloromethane	0.78	2.4	0.78	0.32	U
106-93-4	1,2-Dibromoethane	0.78	2.4	0.78	0.28	U
127-18-4	Tetrachloroethene	<b>3.1</b>	2.4	0.78	0.32	
100-41-4	Ethylbenzene	0.78	2.4	0.78	0.34	U
179601-23-1	m,p-Xylenes	<b>1.7</b>	4.6	1.6	0.64	J
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	<b>0.38</b>	2.4	0.78	0.35	J
108-67-8	1,3,5-Trimethylbenzene	0.78	2.4	0.78	0.35	U
95-63-6	1,2,4-Trimethylbenzene	<b>0.59</b>	2.4	0.78	0.34	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	<b>2.0</b>	4.6	1.6	0.64	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00010

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -4.26 Final Pressure (psig): 7.39

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.6	2.8	1.7	0.69	J
75-71-8	Dichlorodifluoromethane (CFC 12)	8.0	2.8	1.7	0.46	
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	U
75-01-4	Vinyl Chloride	7.1	2.8	0.90	0.30	
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	U
64-17-5	Ethanol	9.6	28	4.4	2.0	J
67-64-1	Acetone	34	28	14	6.4	
75-69-4	Trichlorofluoromethane	3.8	2.7	1.7	0.43	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.3	5.3	3.3	1.2	U
75-09-2	Methylene Chloride	1.3	2.8	1.7	0.80	J
76-13-1	Trichlorotrifluoroethane	1,000	28	9.0	4.0	D
75-15-0	Carbon Disulfide	13	5.3	2.9	0.85	
75-34-3	1,1-Dichloroethane	1.7	2.9	1.7	0.41	U
78-93-3	2-Butanone (MEK)	5.9	5.3	1.7	0.58	
141-78-6	Ethyl Acetate	3.4	5.3	3.4	1.5	U
110-54-3	n-Hexane	0.67	2.8	1.7	0.58	J
67-66-3	Chloroform	3.6	2.8	0.90	0.38	
109-99-9	Tetrahydrofuran (THF)	0.85	5.3	0.90	0.36	J
107-06-2	1,2-Dichloroethane	0.90	2.8	0.90	0.31	U
71-43-2	Benzene	7.5	2.8	0.90	0.41	
56-23-5	Carbon Tetrachloride	20	2.7	0.90	0.39	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV12-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-019

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00010

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

0.040 Liter(s)

Initial Pressure (psig): -4.26 Final Pressure (psig): 7.39

Container Dilution Factor: 2.12

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.5	5.3	1.8	0.80	J
75-27-4	Bromodichloromethane	0.90	2.8	0.90	0.41	U
79-01-6	Trichloroethene	39	2.7	0.90	0.38	
123-91-1	1,4-Dioxane	0.90	2.8	0.90	0.33	U
142-82-5	n-Heptane	1.7	2.8	1.7	0.45	U
108-10-1	4-Methyl-2-pentanone	0.90	5.3	0.90	0.39	U
108-88-3	Toluene	1.5	2.8	0.90	0.34	J
591-78-6	2-Hexanone	0.84	5.3	0.90	0.35	J
124-48-1	Dibromochloromethane	0.90	2.8	0.90	0.37	U
106-93-4	1,2-Dibromoethane	0.90	2.8	0.90	0.33	U
127-18-4	Tetrachloroethene	14	2.8	0.90	0.37	
100-41-4	Ethylbenzene	0.90	2.8	0.90	0.40	U
179601-23-1	m,p-Xylenes	1.8	5.3	1.8	0.74	U
75-25-2	Bromoform	1.7	2.8	1.7	0.58	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	0.90	2.8	0.90	0.41	U
108-67-8	1,3,5-Trimethylbenzene	0.90	2.8	0.90	0.41	U
95-63-6	1,2,4-Trimethylbenzene	0.59	2.8	0.90	0.39	J
120-82-1	1,2,4-Trichlorobenzene	1.7	5.3	1.7	0.69	U
91-20-3	Naphthalene	1.6	2.8	1.6	0.69	U
1330-20-7	Xylenes, Total	1.8	5.3	1.8	0.74	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00945

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.0040 Liter(s)

Initial Pressure (psig): -3.00 Final Pressure (psig): 7.76

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>430</b>	250	150	62	
75-71-8	Dichlorodifluoromethane (CFC 12)	150	250	150	42	U
74-87-3	Chloromethane	150	250	150	41	U
75-01-4	Vinyl Chloride	<b>110</b>	250	82	27	J
106-99-0	1,3-Butadiene	150	250	150	42	U
75-00-3	Chloroethane	150	250	150	32	U
64-17-5	Ethanol	<b>280</b>	2,500	400	180	J
67-64-1	Acetone	1,300	2,500	1,300	580	U
75-69-4	Trichlorofluoromethane	150	240	150	39	U
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>290</b>	480	300	110	J
75-09-2	Methylene Chloride	150	250	150	72	U
76-13-1	Trichlorotrifluoroethane	82	250	82	36	U
75-15-0	Carbon Disulfide	260	480	260	77	U
75-34-3	1,1-Dichloroethane	160	260	160	37	U
78-93-3	2-Butanone (MEK)	<b>110</b>	480	150	53	J
141-78-6	Ethyl Acetate	310	480	310	130	U
110-54-3	n-Hexane	<b>930</b>	250	150	53	
67-66-3	Chloroform	82	250	82	34	U
109-99-9	Tetrahydrofuran (THF)	<b>480</b>	480	82	32	
107-06-2	1,2-Dichloroethane	82	250	82	28	U
71-43-2	Benzene	<b>8,600</b>	250	82	37	
56-23-5	Carbon Tetrachloride	82	240	82	36	U

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-020

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00945

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.0040 Liter(s)

Initial Pressure (psig): -3.00 Final Pressure (psig): 7.76

Container Dilution Factor: 1.92

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	40,000	480	160	72	
75-27-4	Bromodichloromethane	82	250	82	37	U
79-01-6	Trichloroethene	38	240	82	35	J
123-91-1	1,4-Dioxane	82	250	82	30	U
142-82-5	n-Heptane	740	250	150	41	
108-10-1	4-Methyl-2-pentanone	82	480	82	35	U
108-88-3	Toluene	10,000	250	82	31	
591-78-6	2-Hexanone	82	480	82	32	U
124-48-1	Dibromochloromethane	82	250	82	34	U
106-93-4	1,2-Dibromoethane	140	250	82	30	J
127-18-4	Tetrachloroethene	59	250	82	33	J
100-41-4	Ethylbenzene	400	250	82	36	
179601-23-1	m,p-Xylenes	6,100	480	160	67	
75-25-2	Bromoform	150	250	150	53	U
100-42-5	Styrene	150	250	150	41	U
95-47-6	o-Xylene	3,900	250	82	37	
108-67-8	1,3,5-Trimethylbenzene	2,300	250	82	37	
95-63-6	1,2,4-Trimethylbenzene	1,700	250	82	36	
120-82-1	1,2,4-Trichlorobenzene	150	480	150	62	U
91-20-3	Naphthalene	150	250	150	62	U
1330-20-7	Xylenes, Total	10,000	480	160	67	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-021

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00906

Initial Pressure (psig): -4.69 Final Pressure (psig): 6.73

Container Dilution Factor: 2.14

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.7	2.8	1.7	0.70	U
75-71-8	Dichlorodifluoromethane (CFC 12)	9.3	2.8	1.7	0.47	
74-87-3	Chloromethane	1.7	2.8	1.7	0.46	U
75-01-4	Vinyl Chloride	5.3	2.8	0.91	0.30	
106-99-0	1,3-Butadiene	1.7	2.8	1.7	0.47	U
75-00-3	Chloroethane	1.7	2.8	1.7	0.35	U
64-17-5	Ethanol	2.8	28	4.4	2.0	J
67-64-1	Acetone	7.0	28	14	6.4	J
75-69-4	Trichlorofluoromethane	1.9	2.7	1.7	0.43	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.4	5.4	3.4	1.2	U
75-09-2	Methylene Chloride	1.7	2.8	1.7	0.80	U
76-13-1	Trichlorotrifluoroethane	5.5	2.8	0.91	0.41	
75-15-0	Carbon Disulfide	3.8	5.4	2.9	0.86	J
75-34-3	1,1-Dichloroethane	1.8	2.9	1.8	0.42	U
78-93-3	2-Butanone (MEK)	1.1	5.4	1.7	0.59	J
141-78-6	Ethyl Acetate	3.5	5.4	3.5	1.5	U
110-54-3	n-Hexane	1.1	2.8	1.7	0.59	J
67-66-3	Chloroform	0.91	2.8	0.91	0.38	U
109-99-9	Tetrahydrofuran (THF)	1.9	5.4	0.91	0.36	J
107-06-2	1,2-Dichloroethane	0.91	2.8	0.91	0.32	U
71-43-2	Benzene	2.0	2.8	0.91	0.41	J
56-23-5	Carbon Tetrachloride	1.7	2.7	0.91	0.40	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-250-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-021

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00906

Initial Pressure (psig): -4.69 Final Pressure (psig): 6.73

Container Dilution Factor: 2.14

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	2.1	5.4	1.8	0.80	J
75-27-4	Bromodichloromethane	0.91	2.8	0.91	0.41	U
79-01-6	Trichloroethene	0.91	2.7	0.91	0.39	U
123-91-1	1,4-Dioxane	0.91	2.8	0.91	0.34	U
142-82-5	n-Heptane	1.5	2.8	1.7	0.45	J
108-10-1	4-Methyl-2-pentanone	0.91	5.4	0.91	0.39	U
108-88-3	Toluene	4.2	2.8	0.91	0.35	U
591-78-6	2-Hexanone	0.91	5.4	0.91	0.35	U
124-48-1	Dibromochloromethane	0.91	2.8	0.91	0.37	U
106-93-4	1,2-Dibromoethane	0.91	2.8	0.91	0.33	U
127-18-4	Tetrachloroethene	1.1	2.8	0.91	0.37	J
100-41-4	Ethylbenzene	0.91	2.8	0.91	0.40	U
179601-23-1	m,p-Xylenes	3.9	5.4	1.8	0.75	J
75-25-2	Bromoform	1.7	2.8	1.7	0.59	U
100-42-5	Styrene	1.7	2.8	1.7	0.46	U
95-47-6	o-Xylene	2.2	2.8	0.91	0.41	J
108-67-8	1,3,5-Trimethylbenzene	1.9	2.8	0.91	0.41	J
95-63-6	1,2,4-Trimethylbenzene	2.5	2.8	0.91	0.40	J
120-82-1	1,2,4-Trichlorobenzene	1.7	5.4	1.7	0.70	U
91-20-3	Naphthalene	1.7	2.8	1.7	0.70	U
1330-20-7	Xylenes, Total	6.1	5.4	1.8	0.75	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-022

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00170

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -3.48 Final Pressure (psig): 6.39

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	2.6	2.4	1.5	0.61	
75-71-8	Dichlorodifluoromethane (CFC 12)	5.4	2.4	1.5	0.41	
74-87-3	Chloromethane	1.5	2.4	1.5	0.40	U
75-01-4	Vinyl Chloride	7.0	2.5	0.80	0.27	
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.41	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.31	U
64-17-5	Ethanol	15	25	3.9	1.7	J
67-64-1	Acetone	44	24	13	5.6	
75-69-4	Trichlorofluoromethane	2.5	2.4	1.5	0.38	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	4.7	3.0	1.0	J
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.71	U
76-13-1	Trichlorotrifluoroethane	11	2.5	0.80	0.36	
75-15-0	Carbon Disulfide	3.1	4.7	2.5	0.75	J
75-34-3	1,1-Dichloroethane	1.6	2.5	1.6	0.37	U
78-93-3	2-Butanone (MEK)	15	4.7	1.5	0.52	
141-78-6	Ethyl Acetate	3.1	4.7	3.1	1.3	U
110-54-3	n-Hexane	1.1	2.4	1.5	0.52	J
67-66-3	Chloroform	0.80	2.5	0.80	0.33	U
109-99-9	Tetrahydrofuran (THF)	21	4.7	0.80	0.31	
107-06-2	1,2-Dichloroethane	0.29	2.4	0.80	0.28	J
71-43-2	Benzene	1.2	2.4	0.80	0.36	J
56-23-5	Carbon Tetrachloride	4.3	2.4	0.80	0.35	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-022

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00170

Initial Pressure (psig): -3.48 Final Pressure (psig): 6.39

Container Dilution Factor: 1.88

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	8.7	4.7	1.6	0.71	
75-27-4	Bromodichloromethane	0.80	2.4	0.80	0.36	U
79-01-6	Trichloroethene	0.80	2.4	0.80	0.34	U
123-91-1	1,4-Dioxane	4.6	2.4	0.80	0.30	
142-82-5	n-Heptane	1.2	2.4	1.5	0.40	J
108-10-1	4-Methyl-2-pentanone	0.54	4.7	0.80	0.34	J
108-88-3	Toluene	2.9	2.4	0.80	0.31	
591-78-6	2-Hexanone	0.80	4.7	0.80	0.31	U
124-48-1	Dibromochloromethane	0.80	2.4	0.80	0.33	U
106-93-4	1,2-Dibromoethane	0.80	2.4	0.80	0.29	U
127-18-4	Tetrachloroethene	1.2	2.4	0.80	0.32	J
100-41-4	Ethylbenzene	0.80	2.4	0.80	0.35	U
179601-23-1	m,p-Xylenes	2.1	4.7	1.6	0.66	J
75-25-2	Bromoform	1.5	2.5	1.5	0.52	U
100-42-5	Styrene	1.5	2.4	1.5	0.40	U
95-47-6	o-Xylene	0.99	2.5	0.80	0.36	J
108-67-8	1,3,5-Trimethylbenzene	0.79	2.5	0.80	0.36	J
95-63-6	1,2,4-Trimethylbenzene	1.3	2.4	0.80	0.35	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.7	1.5	0.61	U
91-20-3	Naphthalene	1.5	2.4	1.5	0.61	U
1330-20-7	Xylenes, Total	3.1	4.7	1.6	0.66	J

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LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-023

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00896

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/11/20

Volume(s) Analyzed: 0.40 Liter(s)

Initial Pressure (psig): -4.04 Final Pressure (psig): 6.81

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	15	2.6	1.6	0.66	
75-71-8	Dichlorodifluoromethane (CFC 12)	4.0	2.6	1.6	0.44	
74-87-3	Chloromethane	1.6	2.6	1.6	0.43	U
75-01-4	Vinyl Chloride	5.7	2.7	0.86	0.29	
106-99-0	1,3-Butadiene	1.6	2.6	1.6	0.44	U
75-00-3	Chloroethane	1.6	2.6	1.6	0.33	U
64-17-5	Ethanol	2.1	27	4.2	1.9	J
67-64-1	Acetone	14	26	14	6.1	U
75-69-4	Trichlorofluoromethane	2.3	2.6	1.6	0.41	J
67-63-0	2-Propanol (Isopropyl Alcohol)	3.2	5.1	3.2	1.1	U
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.76	U
76-13-1	Trichlorotrifluoroethane	2.4	2.7	0.86	0.38	J
75-15-0	Carbon Disulfide	5.6	5.1	2.7	0.81	
75-34-3	1,1-Dichloroethane	1.7	2.7	1.7	0.39	U
78-93-3	2-Butanone (MEK)	1.4	5.1	1.6	0.56	J
141-78-6	Ethyl Acetate	3.3	5.1	3.3	1.4	U
110-54-3	n-Hexane	29	2.6	1.6	0.56	
67-66-3	Chloroform	0.86	2.7	0.86	0.36	U
109-99-9	Tetrahydrofuran (THF)	0.51	5.1	0.86	0.34	J
107-06-2	1,2-Dichloroethane	1.2	2.6	0.86	0.30	J
71-43-2	Benzene	160	2.6	0.86	0.39	
56-23-5	Carbon Tetrachloride	3.5	2.6	0.86	0.37	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV13-450-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-023

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS00896

Initial Pressure (psig): -4.04 Final Pressure (psig): 6.81

Container Dilution Factor: 2.02

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>450</b>	5.1	1.7	0.76	
75-27-4	Bromodichloromethane	0.86	2.6	0.86	0.39	U
79-01-6	Trichloroethene	<b>0.62</b>	2.6	0.86	0.36	J
123-91-1	1,4-Dioxane	0.86	2.6	0.86	0.32	U
142-82-5	n-Heptane	<b>0.95</b>	2.6	1.6	0.43	J
108-10-1	4-Methyl-2-pentanone	0.86	5.1	0.86	0.37	U
108-88-3	Toluene	<b>2.8</b>	2.6	0.86	0.33	
591-78-6	2-Hexanone	0.86	5.1	0.86	0.33	U
124-48-1	Dibromochloromethane	0.86	2.6	0.86	0.35	U
106-93-4	1,2-Dibromoethane	0.86	2.6	0.86	0.31	U
127-18-4	Tetrachloroethene	<b>0.84</b>	2.6	0.86	0.35	J
100-41-4	Ethylbenzene	<b>0.55</b>	2.6	0.86	0.38	J
179601-23-1	m,p-Xylenes	<b>2.8</b>	5.1	1.7	0.71	J
75-25-2	Bromoform	1.6	2.7	1.6	0.56	U
100-42-5	Styrene	1.6	2.6	1.6	0.43	U
95-47-6	o-Xylene	<b>4.1</b>	2.7	0.86	0.39	
108-67-8	1,3,5-Trimethylbenzene	<b>5.5</b>	2.7	0.86	0.39	
95-63-6	1,2,4-Trimethylbenzene	<b>0.88</b>	2.6	0.86	0.37	J
120-82-1	1,2,4-Trichlorobenzene	1.6	5.1	1.6	0.66	U
91-20-3	Naphthalene	1.6	2.6	1.6	0.66	U
1330-20-7	Xylenes, Total	<b>6.9</b>	5.1	1.7	0.71	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-150-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-024

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/12/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01016

Initial Pressure (psig): -3.25 Final Pressure (psig): 6.19

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	1.5	2.4	1.5	0.59	U
75-71-8	Dichlorodifluoromethane (CFC 12)	10	2.4	1.5	0.40	
74-87-3	Chloromethane	1.5	2.4	1.5	0.39	U
75-01-4	Vinyl Chloride	0.77	2.4	0.77	0.26	U
106-99-0	1,3-Butadiene	1.5	2.4	1.5	0.40	U
75-00-3	Chloroethane	1.5	2.4	1.5	0.30	U
64-17-5	Ethanol	2.7	24	3.8	1.7	J
67-64-1	Acetone	13	24	12	5.5	J
75-69-4	Trichlorofluoromethane	1.7	2.3	1.5	0.37	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	4.6	2.9	1.0	U
75-09-2	Methylene Chloride	1.5	2.4	1.5	0.68	U
76-13-1	Trichlorotrifluoroethane	10	2.4	0.77	0.35	
75-15-0	Carbon Disulfide	25	4.6	2.5	0.73	
75-34-3	1,1-Dichloroethane	1.5	2.5	1.5	0.35	U
78-93-3	2-Butanone (MEK)	2.0	4.6	1.5	0.50	J
141-78-6	Ethyl Acetate	3.0	4.6	3.0	1.3	U
110-54-3	n-Hexane	10	2.4	1.5	0.50	
67-66-3	Chloroform	0.71	2.4	0.77	0.32	J
109-99-9	Tetrahydrofuran (THF)	27	4.6	0.77	0.30	
107-06-2	1,2-Dichloroethane	0.77	2.4	0.77	0.27	U
71-43-2	Benzene	5.0	2.4	0.77	0.35	
56-23-5	Carbon Tetrachloride	2.6	2.3	0.77	0.34	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-150-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-024

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/12/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SS01016

Initial Pressure (psig): -3.25 Final Pressure (psig): 6.19

Container Dilution Factor: 1.82

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	13	4.6	1.5	0.68	
75-27-4	Bromodichloromethane	0.77	2.4	0.77	0.35	U
79-01-6	Trichloroethene	0.77	2.3	0.77	0.33	U
123-91-1	1,4-Dioxane	0.33	2.4	0.77	0.29	J
142-82-5	n-Heptane	19	2.4	1.5	0.39	
108-10-1	4-Methyl-2-pentanone	0.77	4.6	0.77	0.33	U
108-88-3	Toluene	5.7	2.4	0.77	0.30	
591-78-6	2-Hexanone	0.77	4.6	0.77	0.30	U
124-48-1	Dibromochloromethane	0.77	2.4	0.77	0.32	U
106-93-4	1,2-Dibromoethane	0.77	2.4	0.77	0.28	U
127-18-4	Tetrachloroethene	2.9	2.4	0.77	0.31	
100-41-4	Ethylbenzene	0.47	2.4	0.77	0.34	J
179601-23-1	m,p-Xylenes	1.1	4.6	1.5	0.64	J
75-25-2	Bromoform	1.5	2.4	1.5	0.50	U
100-42-5	Styrene	1.5	2.4	1.5	0.39	U
95-47-6	o-Xylene	1.5	2.4	0.77	0.35	J
108-67-8	1,3,5-Trimethylbenzene	1.0	2.4	0.77	0.35	J
95-63-6	1,2,4-Trimethylbenzene	0.63	2.4	0.77	0.34	J
120-82-1	1,2,4-Trichlorobenzene	1.5	4.6	1.5	0.59	U
91-20-3	Naphthalene	1.4	2.4	1.4	0.59	U
1330-20-7	Xylenes, Total	2.7	4.6	1.5	0.64	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-025

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00940

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.25 Liter(s)

0.050 Liter(s)

Initial Pressure (psig): -4.33 Final Pressure (psig): 6.59

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	7.3	4.3	2.6	1.1	
75-71-8	Dichlorodifluoromethane (CFC 12)	18	4.3	2.6	0.71	
74-87-3	Chloromethane	2.6	4.3	2.6	0.71	U
75-01-4	Vinyl Chloride	2.5	4.3	1.4	0.47	J
106-99-0	1,3-Butadiene	2.6	4.3	2.6	0.72	U
75-00-3	Chloroethane	2.6	4.3	2.6	0.54	U
64-17-5	Ethanol	6.8	43	6.8	3.0	U
67-64-1	Acetone	22	43	22	9.8	U
75-69-4	Trichlorofluoromethane	3.1	4.2	2.6	0.66	J
67-63-0	2-Propanol (Isopropyl Alcohol)	5.2	8.2	5.2	1.8	U
75-09-2	Methylene Chloride	2.6	4.3	2.6	1.2	U
76-13-1	Trichlorotrifluoroethane	38	4.3	1.4	0.62	
75-15-0	Carbon Disulfide	4.8	8.2	4.4	1.3	J
75-34-3	1,1-Dichloroethane	2.7	4.4	2.7	0.64	U
78-93-3	2-Butanone (MEK)	1.6	8.2	2.6	0.90	J
141-78-6	Ethyl Acetate	5.3	8.2	5.3	2.3	U
110-54-3	n-Hexane	140	4.3	2.6	0.90	
67-66-3	Chloroform	1.4	4.3	1.4	0.58	U
109-99-9	Tetrahydrofuran (THF)	4.1	8.2	1.4	0.55	J
107-06-2	1,2-Dichloroethane	1.4	4.3	1.4	0.48	U
71-43-2	Benzene	1,800	21	7.0	3.2	D
56-23-5	Carbon Tetrachloride	9.2	4.2	1.4	0.61	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-250-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-025

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00940

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.25 Liter(s)

0.050 Liter(s)

Initial Pressure (psig): -4.33 Final Pressure (psig): 6.59

Container Dilution Factor: 2.05

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	1,700	41	14	6.2	D
75-27-4	Bromodichloromethane	1.4	4.3	1.4	0.63	U
79-01-6	Trichloroethene	4.1	4.2	1.4	0.59	J
123-91-1	1,4-Dioxane	1.4	4.3	1.4	0.52	U
142-82-5	n-Heptane	42	4.3	2.6	0.70	
108-10-1	4-Methyl-2-pentanone	1.4	8.2	1.4	0.60	U
108-88-3	Toluene	52	4.3	1.4	0.53	
591-78-6	2-Hexanone	1.4	8.2	1.4	0.54	U
124-48-1	Dibromochloromethane	1.4	4.3	1.4	0.57	U
106-93-4	1,2-Dibromoethane	1.4	4.3	1.4	0.51	U
127-18-4	Tetrachloroethene	4.4	4.3	1.4	0.57	
100-41-4	Ethylbenzene	1.5	4.3	1.4	0.62	J
179601-23-1	m,p-Xylenes	21	8.2	2.8	1.1	
75-25-2	Bromoform	2.6	4.3	2.6	0.90	U
100-42-5	Styrene	2.6	4.3	2.6	0.71	U
95-47-6	o-Xylene	18	4.3	1.4	0.63	
108-67-8	1,3,5-Trimethylbenzene	2.9	4.3	1.4	0.63	J
95-63-6	1,2,4-Trimethylbenzene	4.0	4.3	1.4	0.61	J
120-82-1	1,2,4-Trichlorobenzene	2.6	8.2	2.6	1.1	U
91-20-3	Naphthalene	1.4	4.3	2.5	1.1	J
1330-20-7	Xylenes, Total	39	8.2	2.8	1.1	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-026

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00901

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.0080 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 5.53

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	74	120	74	30	U
75-71-8	Dichlorodifluoromethane (CFC 12)	46	120	74	20	J
74-87-3	Chloromethane	74	120	74	20	U
75-01-4	Vinyl Chloride	39	120	39	13	U
106-99-0	1,3-Butadiene	74	120	74	20	U
75-00-3	Chloroethane	74	120	74	15	U
64-17-5	Ethanol	190	1,200	190	86	U
67-64-1	Acetone	620	1,200	620	280	U
75-69-4	Trichlorofluoromethane	74	120	74	19	U
67-63-0	2-Propanol (Isopropyl Alcohol)	150	230	150	51	U
75-09-2	Methylene Chloride	74	120	74	35	U
76-13-1	Trichlorotrifluoroethane	22	120	39	18	J
75-15-0	Carbon Disulfide	120	230	120	37	U
75-34-3	1,1-Dichloroethane	76	120	76	18	U
78-93-3	2-Butanone (MEK)	74	230	74	25	U
141-78-6	Ethyl Acetate	360	230	150	65	
110-54-3	n-Hexane	2,500	120	74	25	
67-66-3	Chloroform	39	120	39	16	U
109-99-9	Tetrahydrofuran (THF)	39	230	39	15	U
107-06-2	1,2-Dichloroethane	39	120	39	14	U
71-43-2	Benzene	700	120	39	18	
56-23-5	Carbon Tetrachloride	39	120	39	17	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-350-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-026

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00901

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.0080 Liter(s)

Initial Pressure (psig): -3.76 Final Pressure (psig): 5.53

Container Dilution Factor: 1.85

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	40,000	230	79	35	
75-27-4	Bromodichloromethane	39	120	39	18	U
79-01-6	Trichloroethene	61	120	39	17	J
123-91-1	1,4-Dioxane	39	120	39	15	U
142-82-5	n-Heptane	74	120	74	20	U
108-10-1	4-Methyl-2-pentanone	39	230	39	17	U
108-88-3	Toluene	180	120	39	15	
591-78-6	2-Hexanone	39	230	39	15	U
124-48-1	Dibromochloromethane	39	120	39	16	U
106-93-4	1,2-Dibromoethane	18	120	39	14	J
127-18-4	Tetrachloroethene	29	120	39	16	J
100-41-4	Ethylbenzene	39	120	39	17	U
179601-23-1	m,p-Xylenes	47	230	79	32	J
75-25-2	Bromoform	74	120	74	25	U
100-42-5	Styrene	74	120	74	20	U
95-47-6	o-Xylene	69	120	39	18	J
108-67-8	1,3,5-Trimethylbenzene	27	120	39	18	J
95-63-6	1,2,4-Trimethylbenzene	39	120	39	17	U
120-82-1	1,2,4-Trichlorobenzene	74	230	74	30	U
91-20-3	Naphthalene	72	120	72	30	U
1330-20-7	Xylenes, Total	120	230	79	32	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-027

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00881

Date Collected: 10/19/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.00040 Liter(s)

0.00010 Liter(s)

Initial Pressure (psig): -4.61 Final Pressure (psig): 5.51

Container Dilution Factor: 2.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	7,200	2,600	1,600	650	
75-71-8	Dichlorodifluoromethane (CFC 12)	1,600	2,600	1,600	440	U
74-87-3	Chloromethane	1,600	2,600	1,600	430	U
75-01-4	Vinyl Chloride	850	2,700	850	290	U
106-99-0	1,3-Butadiene	1,600	2,600	1,600	440	U
75-00-3	Chloroethane	1,600	2,600	1,600	330	U
64-17-5	Ethanol	4,200	27,000	4,200	1,900	U
67-64-1	Acetone	14,000	26,000	14,000	6,000	U
75-69-4	Trichlorofluoromethane	1,600	2,600	1,600	410	U
67-63-0	2-Propanol (Isopropyl Alcohol)	3,200	5,000	3,200	1,100	U
75-09-2	Methylene Chloride	1,600	2,600	1,600	750	U
76-13-1	Trichlorotrifluoroethane	390	2,700	850	380	J
75-15-0	Carbon Disulfide	2,700	5,000	2,700	800	U
75-34-3	1,1-Dichloroethane	1,700	2,700	1,700	390	U
78-93-3	2-Butanone (MEK)	810	5,000	1,600	550	J
141-78-6	Ethyl Acetate	3,300	5,000	3,300	1,400	U
110-54-3	n-Hexane	650,000	10,000	6,400	2,200	D
67-66-3	Chloroform	850	2,700	850	360	U
109-99-9	Tetrahydrofuran (THF)	850	5,000	850	340	U
107-06-2	1,2-Dichloroethane	850	2,600	850	300	U
71-43-2	Benzene	71,000	2,600	850	390	
56-23-5	Carbon Tetrachloride	850	2,600	850	370	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV15-450-204**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-027

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/12/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00040 Liter(s)

Test Notes:

0.00010 Liter(s)

Container ID: 1SS00881

Initial Pressure (psig): -4.61 Final Pressure (psig): 5.51

Container Dilution Factor: 2.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	900,000	5,000	1,700	750	
75-27-4	Bromodichloromethane	850	2,600	850	390	U
79-01-6	Trichloroethene	540	2,600	850	360	J
123-91-1	1,4-Dioxane	850	2,600	850	320	U
142-82-5	n-Heptane	730,000	10,000	6,400	1,700	D
108-10-1	4-Methyl-2-pentanone	850	5,000	850	370	U
108-88-3	Toluene	200,000	2,600	850	330	
591-78-6	2-Hexanone	850	5,000	850	330	U
124-48-1	Dibromochloromethane	850	2,600	850	350	U
106-93-4	1,2-Dibromoethane	320	2,600	850	310	J
127-18-4	Tetrachloroethene	670	2,600	850	350	J
100-41-4	Ethylbenzene	9,800	2,600	850	380	
179601-23-1	m,p-Xylenes	24,000	5,000	1,700	700	
75-25-2	Bromoform	1,600	2,700	1,600	550	U
100-42-5	Styrene	1,600	2,600	1,600	430	U
95-47-6	o-Xylene	11,000	2,700	850	390	
108-67-8	1,3,5-Trimethylbenzene	2,100	2,700	850	390	J
95-63-6	1,2,4-Trimethylbenzene	1,100	2,600	850	370	J
120-82-1	1,2,4-Trichlorobenzene	1,600	5,000	1,600	650	U
91-20-3	Naphthalene	1,600	2,600	1,600	650	U
1330-20-7	Xylenes, Total	35,000	5,000	1,700	700	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** SVTB204-03  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P2006080-028

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:  
 Container ID: 1SC00088

Date Collected: 10/21/20  
 Date Received: 10/26/20  
 Date Analyzed: 11/12/20  
 Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	<b>0.49</b>	1.3	0.80	0.33	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	0.80	1.3	0.80	0.22	<b>U</b>
74-87-3	Chloromethane	0.80	1.3	0.80	0.22	<b>U</b>
75-01-4	Vinyl Chloride	0.43	1.3	0.43	0.14	<b>U</b>
106-99-0	1,3-Butadiene	0.80	1.3	0.80	0.22	<b>U</b>
75-00-3	Chloroethane	0.80	1.3	0.80	0.17	<b>U</b>
64-17-5	Ethanol	<b>8.0</b>	13	2.1	0.93	<b>J</b>
67-64-1	Acetone	<b>7.3</b>	13	6.8	3.0	<b>J</b>
75-69-4	Trichlorofluoromethane	0.80	1.3	0.80	0.20	<b>U</b>
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>0.94</b>	2.5	1.6	0.55	<b>J</b>
75-09-2	Methylene Chloride	0.80	1.3	0.80	0.38	<b>U</b>
76-13-1	Trichlorotrifluoroethane	0.43	1.3	0.43	0.19	<b>U</b>
75-15-0	Carbon Disulfide	1.4	2.5	1.4	0.40	<b>U</b>
75-34-3	1,1-Dichloroethane	0.83	1.4	0.83	0.20	<b>U</b>
78-93-3	2-Butanone (MEK)	<b>1.6</b>	2.5	0.80	0.28	<b>J</b>
141-78-6	Ethyl Acetate	<b>48</b>	2.5	1.6	0.70	
110-54-3	n-Hexane	0.80	1.3	0.80	0.28	<b>U</b>
67-66-3	Chloroform	0.43	1.3	0.43	0.18	<b>U</b>
109-99-9	Tetrahydrofuran (THF)	0.43	2.5	0.43	0.17	<b>U</b>
107-06-2	1,2-Dichloroethane	0.43	1.3	0.43	0.15	<b>U</b>
71-43-2	Benzene	<b>0.49</b>	1.3	0.43	0.19	<b>J</b>
56-23-5	Carbon Tetrachloride	0.43	1.3	0.43	0.19	<b>U</b>

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SVTB204-03**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

ALS Sample ID: P2006080-028

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Summa Canister

Test Notes:

Container ID: 1SC00088

Date Collected: 10/21/20

Date Received: 10/26/20

Date Analyzed: 11/12/20

Volume(s) Analyzed: 0.40 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.85	2.5	0.85	0.38	U
75-27-4	Bromodichloromethane	0.43	1.3	0.43	0.19	U
79-01-6	Trichloroethene	0.43	1.3	0.43	0.18	U
123-91-1	1,4-Dioxane	0.43	1.3	0.43	0.16	U
142-82-5	n-Heptane	0.80	1.3	0.80	0.21	U
108-10-1	4-Methyl-2-pentanone	0.43	2.5	0.43	0.18	U
108-88-3	Toluene	<b>0.94</b>	1.3	0.43	0.16	J
591-78-6	2-Hexanone	<b>0.29</b>	2.5	0.43	0.17	J
124-48-1	Dibromochloromethane	0.43	1.3	0.43	0.18	U
106-93-4	1,2-Dibromoethane	0.43	1.3	0.43	0.16	U
127-18-4	Tetrachloroethene	0.43	1.3	0.43	0.17	U
100-41-4	Ethylbenzene	0.43	1.3	0.43	0.19	U
179601-23-1	m,p-Xylenes	0.85	2.5	0.85	0.35	U
75-25-2	Bromoform	0.80	1.3	0.80	0.28	U
100-42-5	Styrene	0.80	1.3	0.80	0.22	U
95-47-6	o-Xylene	0.43	1.3	0.43	0.19	U
108-67-8	1,3,5-Trimethylbenzene	0.43	1.3	0.43	0.19	U
95-63-6	1,2,4-Trimethylbenzene	0.43	1.3	0.43	0.19	U
120-82-1	1,2,4-Trichlorobenzene	0.80	2.5	0.80	0.33	U
91-20-3	Naphthalene	0.78	1.3	0.78	0.33	U
1330-20-7	Xylenes, Total	0.85	2.5	0.85	0.35	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-302-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-015DUP

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

Container ID: 1SS01028

Initial Pressure (psig): -3.96

Final Pressure (psig): 7.42

Container Dilution Factor: 2.06

Compound	Sample Result µg/m <sup>3</sup>	Duplicate Sample Result µg/m <sup>3</sup>	Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
Propene	34	34	34	0	25	
Dichlorodifluoromethane (CFC 12)	26	25	25.5	4	25	J
Chloromethane	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	-	-	25	
Chloroethane	ND	ND	-	-	25	
Ethanol	ND	ND	-	-	25	
Acetone	ND	ND	-	-	25	
Trichlorofluoromethane	14	14	14	0	25	J
2-Propanol (Isopropyl Alcohol)	ND	ND	-	-	25	
Methylene Chloride	ND	ND	-	-	25	
Trichlorotrifluoroethane	140	140	140	0	25	
Carbon Disulfide	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	-	-	25	
Ethyl Acetate	ND	ND	-	-	25	
n-Hexane	330	320	325	3	25	
Chloroform	11	10	10.5	10	25	J
Tetrahydrofuran (THF)	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	-	-	25	
Benzene	77	76	76.5	1	25	
Carbon Tetrachloride	53	53	53	0	25	

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV06-302-204

ALS Project ID: P2006080

**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Sample ID: P2006080-015DUP

Test Code: EPA TO-15

Date Collected: 10/19/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 10/26/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/11/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

Container ID: 1SS01028

Initial Pressure (psig): -3.96

Final Pressure (psig): 7.42

Container Dilution Factor: 2.06

Compound	Sample Result µg/m <sup>3</sup>	Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
		Sample Result µg/m <sup>3</sup>	Sample Result µg/m <sup>3</sup>				
Cyclohexane	6,300	6,300	6,300	6300	0	25	
Bromodichloromethane	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	-	-	25	
Toluene	14	13	13	13.5	7	25	J
2-Hexanone	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	-	-	25	
1,2-Dibromoethane	27	24	24	25.5	12	25	J
Tetrachloroethene	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	ND	-	-	25	
Bromoform	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	-	-	25	
o-Xylene	11	11	11	11	0	25	J
1,3,5-Trimethylbenzene	4.8	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	-	-	25	
Xylenes, Total	11	11	11	11	0	25	J

ND = Compound was analyzed for, but not detected.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201111-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/11/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201111-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/11/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201112-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/12/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201112-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/12/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/19/20

Analyst: Lusine Hakobyan

Date(s) Received: 10/26/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 11/11 - 11/12/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201111-MB	100	102	102	70-130	
Method Blank	P201112-MB	100	102	103	70-130	
Lab Control Sample	P201111-LCS	99	98	101	70-130	
Lab Control Sample	P201112-LCS	99	98	102	70-130	
Duplicate Lab Control Sample	P201111-DLCS	98	99	102	70-130	
Duplicate Lab Control Sample	P201112-DLCS	99	98	102	70-130	
SV01-300-204	P2006080-001	101	99	103	70-130	
SV02-050-204	P2006080-002	101	102	105	70-130	
SV02-100-204	P2006080-003	102	101	105	70-130	
SV02-150-604	P2006080-004	102	99	103	70-130	
SV02-150-204	P2006080-005	101	101	105	70-130	
SV05-050-604	P2006080-006	100	97	100	70-130	
SV05-050-204	P2006080-007	98	105	108	70-130	
SV05-100-204	P2006080-008	98	90	90	70-130	
SV05-230-204	P2006080-009	102	93	99	70-130	
SV05-290-204	P2006080-010	99	102	101	70-130	
SV06-050-204	P2006080-011	98	99	107	70-130	
SV06-100-604	P2006080-012	96	106	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/19/20

Analyst: Lusine Hakobyan

Date(s) Received: 10/26/20

Sampling Media: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 11/11 - 11/12/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
SV06-100-204	P2006080-013	96	109	110	70-130	
SV06-252-204	P2006080-014	103	103	103	70-130	
SV06-302-204	P2006080-015	97	106	103	70-130	
SV06-302-204	P2006080-015DUP	98	105	99	70-130	
SV12-150-204	P2006080-016	97	105	105	70-130	
SV12-250-204	P2006080-017	99	101	105	70-130	
SV12-350-204	P2006080-018	98	101	107	70-130	
SV12-450-204	P2006080-019	99	100	106	70-130	
SV13-150-204	P2006080-020	101	92	96	70-130	
SV13-250-204	P2006080-021	100	100	106	70-130	
SV13-350-204	P2006080-022	101	93	103	70-130	
SV13-450-204	P2006080-023	100	88	94	70-130	
SV15-150-204	P2006080-024	100	102	104	70-130	
SV15-250-204	P2006080-025	100	103	102	70-130	
SV15-350-204	P2006080-026	100	99	103	70-130	
SV15-450-204	P2006080-027	100	97	103	70-130	
SVTB204-03	P2006080-028	99	105	103	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201111-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/11/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
115-07-1	Propene	210	205	204		98	97	57-136	1	25
75-71-8	Dichlorodifluoromethane (CFC 12)	210	189	186		90	89	59-128	1	25
74-87-3	Chloromethane	206	148	143		72	69	59-132	4	25
75-01-4	Vinyl Chloride	208	193	187		93	90	64-127	3	25
106-99-0	1,3-Butadiene	210	175	170		83	81	66-134	2	25
75-00-3	Chloroethane	204	189	183		93	90	63-127	3	25
64-17-5	Ethanol	998	910	886		91	89	59-125	2	25
67-64-1	Acetone	1,030	925	893		90	87	58-128	3	25
75-69-4	Trichlorofluoromethane	204	190	186		93	91	62-126	2	25
67-63-0	2-Propanol (Isopropyl Alcohol)	408	347	329		85	81	52-125	5	25
75-09-2	Methylene Chloride	208	187	183		90	88	62-115	2	25
76-13-1	Trichlorotrifluoroethane	214	196	193		92	90	66-126	2	25
75-15-0	Carbon Disulfide	428	400	391		93	91	57-134	2	25
75-34-3	1,1-Dichloroethane	212	194	189		92	89	68-126	3	25
78-93-3	2-Butanone (MEK)	412	400	392		97	95	67-130	2	25
141-78-6	Ethyl Acetate	422	524	509		124	121	65-128	2	25
110-54-3	n-Hexane	212	216	209		102	99	63-120	3	25
67-66-3	Chloroform	214	195	190		91	89	68-123	2	25
109-99-9	Tetrahydrofuran (THF)	400	373	365		93	91	64-123	2	25
107-06-2	1,2-Dichloroethane	208	194	188		93	90	65-128	3	25
71-43-2	Benzene	204	184	183		90	90	69-119	0	25
56-23-5	Carbon Tetrachloride	210	193	188		92	90	68-132	2	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201111-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/11/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	399	391		96	94	70-117	2	25
75-27-4	Bromodichloromethane	210	203	201		97	96	72-128	1	25
79-01-6	Trichloroethene	206	189	186		92	90	71-123	2	25
123-91-1	1,4-Dioxane	208	197	194		95	93	71-122	2	25
142-82-5	n-Heptane	210	199	194		95	92	69-123	3	25
108-10-1	4-Methyl-2-pentanone	416	401	395		96	95	67-130	1	25
108-88-3	Toluene	206	189	188		92	91	66-119	1	25
591-78-6	2-Hexanone	404	394	391		98	97	62-128	1	25
124-48-1	Dibromochloromethane	210	217	215		103	102	70-130	1	25
106-93-4	1,2-Dibromoethane	208	204	202		98	97	74-122	1	25
127-18-4	Tetrachloroethene	206	196	195		95	95	66-124	0	25
100-41-4	Ethylbenzene	206	197	196		96	95	70-124	1	25
179601-23-1	m,p-Xylenes	412	401	398		97	97	61-134	0	25
75-25-2	Bromoform	208	207	204		100	98	66-139	2	25
100-42-5	Styrene	206	212	210		103	102	73-127	1	25
95-47-6	o-Xylene	206	202	199		98	97	67-125	1	25
108-67-8	1,3,5-Trimethylbenzene	206	205	202		100	98	67-130	2	25
95-63-6	1,2,4-Trimethylbenzene	204	218	215		107	105	66-132	2	25
120-82-1	1,2,4-Trichlorobenzene	388	433	431		112	111	55-142	0.9	25
91-20-3	Naphthalene	198	198	198		100	100	57-138	0	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201112-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/12/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	210	207	204		99	97	57-136	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	190	188		90	90	59-128	0	25	
74-87-3	Chloromethane	206	145	140		70	68	59-132	3	25	
75-01-4	Vinyl Chloride	208	193	188		93	90	64-127	3	25	
106-99-0	1,3-Butadiene	210	176	174		84	83	66-134	1	25	
75-00-3	Chloroethane	204	186	185		91	91	63-127	0	25	
64-17-5	Ethanol	998	911	910		91	91	59-125	0	25	
67-64-1	Acetone	1,030	919	913		89	89	58-128	0	25	
75-69-4	Trichlorofluoromethane	204	190	187		93	92	62-126	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	338	338		83	83	52-125	0	25	
75-09-2	Methylene Chloride	208	187	184		90	88	62-115	2	25	
76-13-1	Trichlorotrifluoroethane	214	196	194		92	91	66-126	1	25	
75-15-0	Carbon Disulfide	428	395	390		92	91	57-134	1	25	
75-34-3	1,1-Dichloroethane	212	193	190		91	90	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	395	391		96	95	67-130	1	25	
141-78-6	Ethyl Acetate	422	517	508		123	120	65-128	2	25	
110-54-3	n-Hexane	212	214	210		101	99	63-120	2	25	
67-66-3	Chloroform	214	193	190		90	89	68-123	1	25	
109-99-9	Tetrahydrofuran (THF)	400	368	363		92	91	64-123	1	25	
107-06-2	1,2-Dichloroethane	208	192	191		92	92	65-128	0	25	
71-43-2	Benzene	204	183	181		90	89	69-119	1	25	
56-23-5	Carbon Tetrachloride	210	189	189		90	90	68-132	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006080  
 ALS Sample ID: P201112-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/12/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		DOD		Data Qualifier
		LCS / DLCS	LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance Limits	RPD	
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$					
110-82-7	Cyclohexane	416	394	391		95	94	70-117	1	25
75-27-4	Bromodichloromethane	210	201	199		96	95	72-128	1	25
79-01-6	Trichloroethene	206	185	185		90	90	71-123	0	25
123-91-1	1,4-Dioxane	208	192	190		92	91	71-122	1	25
142-82-5	n-Heptane	210	193	193		92	92	69-123	0	25
108-10-1	4-Methyl-2-pentanone	416	390	390		94	94	67-130	0	25
108-88-3	Toluene	206	188	186		91	90	66-119	1	25
591-78-6	2-Hexanone	404	390	385		97	95	62-128	2	25
124-48-1	Dibromochloromethane	210	213	213		101	101	70-130	0	25
106-93-4	1,2-Dibromoethane	208	201	200		97	96	74-122	1	25
127-18-4	Tetrachloroethene	206	194	193		94	94	66-124	0	25
100-41-4	Ethylbenzene	206	194	194		94	94	70-124	0	25
179601-23-1	m,p-Xylenes	412	397	394		96	96	61-134	0	25
75-25-2	Bromoform	208	203	203		98	98	66-139	0	25
100-42-5	Styrene	206	210	209		102	101	73-127	1	25
95-47-6	o-Xylene	206	199	197		97	96	67-125	1	25
108-67-8	1,3,5-Trimethylbenzene	206	201	202		98	98	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	204	213	215		104	105	66-132	1	25
120-82-1	1,2,4-Trichlorobenzene	388	422	425		109	110	55-142	0.9	25
91-20-3	Naphthalene	198	192	196		97	99	57-138	2	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2006080  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 11102036.D  
Analyst: Lusine Hakobyan Date Analyzed: 11/10/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 22:39  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
<b>24 Hour Standard</b>	169387	11.22	744344	13.34	154224	17.64	
<b>Upper Limit</b>	237142	11.55	1042082	13.67	215914	17.97	
<b>Lower Limit</b>	101632	10.89	446606	13.01	92534	17.31	
<b>Client Sample ID</b>							
01	Method Blank	153562	11.19	677366	13.32	135636	17.64
02	Lab Control Sample	159952	11.22	697430	13.34	146835	17.64
03	Duplicate Lab Control Sample	168459	11.22	729273	13.34	153047	17.64
04	SV05-050-604	156280	11.20	688520	13.32	150156	17.64
05	SV05-050-204	167439	11.20	728255	13.32	142562	17.64
06	SV05-100-204	166190	11.20	733290	13.32	170784	17.64
07	SV05-290-204	169498	11.20	752172	13.33	156982	17.64
08	SV06-100-604	179675	11.22	784548	13.34	154996	17.64
09	SV06-100-204	175055	11.20	769761	13.32	145482	17.64
10	SV06-302-204	191222	11.20	842297	13.33	174124	17.64
11	SV06-302-204 (Lab Duplicate)	191141	11.20	825973	13.33	175219	17.64
12	SV12-150-204	178345	11.20	773089	13.32	152141	17.64
13	SV12-250-204	174474	11.20	783062	13.33	160006	17.64
14	SV12-350-204	165388	11.20	715585	13.32	149701	17.64
15	SV12-450-204	163757	11.20	714668	13.32	149325	17.64
16	SV13-250-204	162693	11.20	713638	13.32	151638	17.64
17	SV05-050-604 (Dilution)	168139	11.19	741429	13.32	160287	17.64
18	SV05-290-204 (Dilution)	171353	11.20	734687	13.32	162369	17.64
19	SV12-150-204 (Dilution)	167804	11.19	721051	13.32	157698	17.64
20	SV12-250-204 (Dilution)	165471	11.20	713423	13.32	153793	17.64

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2006080  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 11102036.D  
Analyst: Lusine Hakobyan Date Analyzed: 11/10/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 22:39  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	169387	11.22	744344	13.34	154224	17.64
<b>Upper Limit</b>	237142	11.55	1042082	13.67	215914	17.97
<b>Lower Limit</b>	101632	10.89	446606	13.01	92534	17.31

Client Sample ID		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
21	SV12-350-204 (Dilution)	162849	11.19	704832	13.32	152752	17.64
22	SV12-450-204 (Dilution)	156033	11.19	678891	13.32	148353	17.64
23	SV13-350-204	147132	11.20	644244	13.32	144087	17.64
24	SV01-300-204	154120	11.20	677330	13.33	153835	17.64
25	SV02-050-204	156268	11.20	682949	13.32	147325	17.64
26	SV02-100-204	156048	11.20	690298	13.32	150474	17.64
27	SV02-150-604	155002	11.20	688067	13.33	154315	17.64
28	SV02-150-604 (Dilution)	153767	11.20	679394	13.32	147221	17.64
29	SV13-450-204	154190	11.20	683479	13.32	167263	17.64
30	SV02-150-204	161271	11.20	716014	13.32	151832	17.64
31	SV05-230-204	162527	11.20	725675	13.33	167295	17.64
32	SV05-230-204 (Dilution)	162818	11.20	712312	13.32	148813	17.64
33							
34							
35							
36							
37							
38							
39							
40							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2006080  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 11112001.D  
Analyst: Lusine Hakobyan Date Analyzed: 11/11/20  
Sampling Media: 1.0 L Summa Canister(s) Time Analyzed: 22:45  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	172192	11.22	744654	13.34	160066	17.64
<b>Upper Limit</b>	241069	11.55	1042516	13.67	224092	17.97
<b>Lower Limit</b>	103315	10.89	446792	13.01	96040	17.31

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
Client Sample ID	Area	RT	Area	RT
01	Method Blank	154290	11.20	679374 13.32 136317 17.64
02	Lab Control Sample	160765	11.22	707964 13.34 148972 17.64
03	Duplicate Lab Control Sample	168266	11.22	732430 13.34 154197 17.64
04	SV15-150-204	152344	11.20	673568 13.32 137631 17.64
05	SV15-250-204	154980	11.20	697819 13.34 141231 17.64
06	SVTB204-03	158575	11.20	696662 13.33 135285 17.64
07	SV15-250-204 (Dilution)	164193	11.20	718977 13.33 155367 17.64
08	SV06-252-204	145583	11.20	653400 13.33 144488 17.64
09	SV06-252-204 (Dilution)	147646	11.20	655990 13.33 143942 17.64
10	SV13-150-204	159140	11.20	699321 13.33 172434 17.64
11	SV06-050-204	165876	11.20	709845 13.32 154997 17.64
12	SV15-350-204	169248	11.20	751724 13.33 165738 17.64
13	SV15-450-204	172836	11.20	770059 13.33 172023 17.64
14	SV15-450-204 (Dilution)	170675	11.20	752245 13.32 158397 17.64
15				
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

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RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



2655 Park Center Dr., Suite A  
Simi Valley, CA 93065  
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[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

November 20, 2020

Pamela Moss  
EA Engineering, Science, and Technology, Inc.  
7995 E. Prentice Ave, Suite 206E  
Greenwood Village, CO 80111

**RE: Kirtland AFB Bulk Fuels Facility / 62735DM02**

Dear Pamela:

Enclosed are the results of the sample submitted to our laboratory on November 4, 2020. For your reference, this analysis has been assigned our service request number P2006267.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*Kate Kaneko*  
Nov 20, 2020, 3:43 pm

Kate Kaneko  
Project Manager

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2655 Park Center Dr., Suite A  
 Simi Valley, CA 93065  
 T: +1 805 526 7161  
[www.alsglobal.com](http://www.alsglobal.com)

Client: EA Engineering, Science, and Technology, Inc.  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request No: P2006267

## CASE NARRATIVE

The sample was received intact under chain of custody on November 4, 2020 and was stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample at the time of sample receipt.

### Volatile Organic Compound Analysis

The sample was analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The container was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

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 Simi Valley, CA 93065  
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[www.alsglobal.com](http://www.alsglobal.com)

## ALS Environmental – Simi Valley

## CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	<a href="http://dec.alaska.gov/eh/lab.aspx">http://dec.alaska.gov/eh/lab.aspx</a>	17-019
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html">http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml">http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml</a>	2018027
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1776326
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-007
Pennsylvania DEP	<a href="http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx">http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlabs.com/search-accredited-labs">http://www.pjlabs.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html</a>	T104704413- 19-10
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/lab_cert_env">http://health.utah.gov/lab/lab_cert_env</a>	CA01627201 9-10
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

---

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# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**COC #:** **COC-SV204-01**

**Requested Turnaround Time in Business Days**  
 10 Day-Standard

ALS Project No.  
**12006267**

<b>Company Name &amp; Address (Reporting Information)</b> EA Engineering, Science, and Technology, Inc., PBC 225 Schilling Circle Suite 400, Hunt Valley, MD (410) 584-7000		<b>Project Name</b> Kirtland AFB Bulk Fuels Facility					
<b>Project Manager / Project Chemist</b> Devon Jerdnovic (505) 715-4248 / Pam Moss (303) 590-9143 Email Address for Result Reporting		<b>Project Number</b> 62735DM02					
Tara Lamond: <a href="mailto:tlamond@eaest.com">tlamond@eaest.com</a> Amanda Smith: <a href="mailto:asmith@eaest.com">asmith@eaest.com</a> Pam Moss: <a href="mailto:pmoss@eaest.com">pmoss@eaest.com</a>		<b>P.O. # / Billing Information</b> 17682					
<b>Sampler (Print &amp; Sign)</b>		<b>Analysis Method</b> TO-15 Project Specific List					
<b>Client Sample ID</b> SV108-350-604	<b>Laboratory ID Number</b>	<b>Canister ID (Bar code # - AC, SC, etc.)</b> 1SS00893	<b>Flow Controller ID (Bar code # - FC #)</b> NA	<b>Canister Start Pressure "Hg</b> -27.5	<b>Canister End Pressure "Hg/psig</b> -2.0	<b>Sample Volume</b> 1L	<b>Comments</b> e.g. Actual Preservative or specific instructions None
<b>Time Collected</b> 10/30/2020 1538		<b>Time Collected</b> 1538		<b>Time Collected</b> 1538		<b>Time Collected</b> 1538	
<b>Date Collected</b> 10/30/2020		<b>Date Collected</b> 10/30/2020		<b>Date Collected</b> 10/30/2020		<b>Date Collected</b> 10/30/2020	
<b>Shipping information:</b> Box number 1 of 1		<b>Tracking Number:</b> 12 V40 E41 03 9774 0132		<b>Shipping information:</b> Box number 1 of 1		<b>Tracking Number:</b> 12 V40 E41 03 9774 0132	
<b>Report Tier Levels - please select</b> Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) <input checked="" type="checkbox"/> X		<b>EDD required: Yes</b> Type: <u>ERPIMS/EQUIS</u>		<b>Chain of Custody Seal: (Circle)</b> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input type="checkbox"/>		<b>Project Requirements:</b> OAPP	
<b>Relinquished by: (Signature)</b> _____ Date: 10/30/2020 Time: 1700		<b>Received by: (Signature)</b> _____ Date: 11/4/20 Time: 0930		<b>Relinquished by: (Signature)</b> _____ Date: _____ Time: _____		<b>Received by: (Signature)</b> _____ Date: _____ Time: _____	
<b>Relinquished by: (Signature)</b> _____ Date: _____ Time: _____		<b>Received by: (Signature)</b> _____ Date: _____ Time: _____		<b>Relinquished by: (Signature)</b> _____ Date: _____ Time: _____		<b>Received by: (Signature)</b> _____ Date: _____ Time: _____	

**ALS Environmental  
Sample Acceptance Check Form**

Client: EA Engineering, Science, and Technology, Inc. Work order: P2006267  
 Project: Kirtland AFB Bulk Fuels Facility / 62735DM02  
 Sample(s) received on: 11/4/20 Date opened: 11/4/20 by: MBERGKAMP

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? <u>Side of box</u> Sealing Lid?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were signature and date included?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were seals intact?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2006267-001.01	1.0 L Source Silonite Canister					
P2006267-002.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: EA Engineering, Science, and Technology, Inc.  
 Project ID: Kirtland AFB Bulk Fuels Facility / 62735DM02

Service Request: P2006267

Date Received: 11/4/2020  
 Time Received: 09:30

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
SV108-350-604	P2006267-001	Air	10/30/2020	15:38	1SS00893	-2.34	6.55	X

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-350-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267

ALS Sample ID: P2006267-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00893

Date Collected: 10/30/20

Date Received: 11/4/20

Date Analyzed: 11/19/20

Volume(s) Analyzed: 0.10 Liter(s)

0.020 Liter(s)

Initial Pressure (psig): -2.34 Final Pressure (psig): 6.55

Container Dilution Factor: 1.72

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	13	5.2	3.2	1.3	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.8	1.8	1.1	0.30	J
74-87-3	Chloromethane	2.7	4.3	2.7	0.72	U
75-01-4	Vinyl Chloride	1.1	3.6	1.1	0.38	U
106-99-0	1,3-Butadiene	2.5	4.0	2.5	0.68	U
75-00-3	Chloroethane	2.1	3.4	2.1	0.43	U
64-17-5	Ethanol	7.6	48	7.6	3.4	U
67-64-1	Acetone	93	38	20	8.7	
75-69-4	Trichlorofluoromethane	3.5	1.6	0.98	0.25	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.9	7.0	4.4	1.5	J
75-09-2	Methylene Chloride	1.6	2.6	1.6	0.74	U
76-13-1	Trichlorotrifluoroethane	310	5.9	1.9	0.85	D
75-15-0	Carbon Disulfide	9.2	5.5	3.0	0.88	
75-34-3	1,1-Dichloroethane	1.4	2.3	1.4	0.33	U
78-93-3	2-Butanone (MEK)	9.0	5.8	1.9	0.64	
141-78-6	Ethyl Acetate	3.1	4.8	3.1	1.3	U
110-54-3	n-Hexane	18	2.5	1.6	0.54	
67-66-3	Chloroform	1.6	1.9	0.60	0.25	J
109-99-9	Tetrahydrofuran (THF)	0.44	5.8	0.99	0.39	J
107-06-2	1,2-Dichloroethane	0.72	2.2	0.72	0.25	U
71-43-2	Benzene	1.2	2.8	0.92	0.41	J
56-23-5	Carbon Tetrachloride	14	1.4	0.47	0.20	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-350-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267

ALS Sample ID: P2006267-001

Test Code: EPA TO-15

Date Collected: 10/30/20

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 11/4/20

Analyst: Lusine Hakobyan

Date Analyzed: 11/19/20

Sampling Media: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.10 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: 1SS00893

Initial Pressure (psig): -2.34 Final Pressure (psig): 6.55

Container Dilution Factor: 1.72

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	140	5.0	1.7	0.75	
75-27-4	Bromodichloromethane	0.44	1.3	0.44	0.20	U
79-01-6	Trichloroethene	2.0	1.6	0.54	0.23	
123-91-1	1,4-Dioxane	0.81	2.5	0.81	0.30	U
142-82-5	n-Heptane	25	2.2	1.3	0.36	
108-10-1	4-Methyl-2-pentanone	0.71	4.2	0.71	0.31	U
108-88-3	Toluene	26	2.4	0.78	0.30	
591-78-6	2-Hexanone	0.71	4.2	0.71	0.28	U
124-48-1	Dibromochloromethane	0.34	1.1	0.34	0.14	U
106-93-4	1,2-Dibromoethane	0.38	1.2	0.38	0.14	U
127-18-4	Tetrachloroethene	2.7	1.3	0.43	0.18	
100-41-4	Ethylbenzene	7.5	2.1	0.67	0.30	
179601-23-1	m,p-Xylenes	25	4.0	1.3	0.55	
75-25-2	Bromoform	0.53	0.88	0.53	0.18	U
100-42-5	Styrene	1.3	2.1	1.3	0.35	U
95-47-6	o-Xylene	9.5	2.1	0.67	0.31	
108-67-8	1,3,5-Trimethylbenzene	6.2	1.9	0.60	0.27	
95-63-6	1,2,4-Trimethylbenzene	21	1.8	0.60	0.26	
120-82-1	1,2,4-Trichlorobenzene	0.74	2.3	0.74	0.30	U
91-20-3	Naphthalene	7.7	1.7	1.0	0.43	
1330-20-7	Xylenes, Total	35	4.0	1.3	0.55	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267  
 ALS Sample ID: P201119-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.19	0.30	0.19	0.076	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.065	0.11	0.065	0.018	U
74-87-3	Chloromethane	0.16	0.25	0.16	0.042	U
75-01-4	Vinyl Chloride	0.067	0.21	0.067	0.022	U
106-99-0	1,3-Butadiene	0.14	0.24	0.14	0.040	U
75-00-3	Chloroethane	0.12	0.20	0.12	0.025	U
64-17-5	Ethanol	0.44	2.8	0.44	0.20	U
67-64-1	Acetone	1.1	2.2	1.1	0.51	U
75-69-4	Trichlorofluoromethane	0.057	0.091	0.057	0.014	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.26	0.41	0.26	0.090	U
75-09-2	Methylene Chloride	0.092	0.15	0.092	0.043	U
76-13-1	Trichlorotrifluoroethane	0.022	0.069	0.022	0.0099	U
75-15-0	Carbon Disulfide	0.17	0.32	0.17	0.051	U
75-34-3	1,1-Dichloroethane	0.082	0.13	0.082	0.019	U
78-93-3	2-Butanone (MEK)	0.11	0.34	0.11	0.037	U
141-78-6	Ethyl Acetate	0.18	0.28	0.18	0.078	U
110-54-3	n-Hexane	0.091	0.15	0.091	0.031	U
67-66-3	Chloroform	0.035	0.11	0.035	0.015	U
109-99-9	Tetrahydrofuran (THF)	0.058	0.34	0.058	0.023	U
107-06-2	1,2-Dichloroethane	0.042	0.13	0.042	0.015	U
71-43-2	Benzene	0.053	0.16	0.053	0.024	U
56-23-5	Carbon Tetrachloride	0.027	0.081	0.027	0.012	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267  
 ALS Sample ID: P201119-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result ppbV	LOQ ppbV	LOD ppbV	MDL ppbV	Data Qualifier
110-82-7	Cyclohexane	0.099	0.29	0.099	0.044	U
75-27-4	Bromodichloromethane	0.025	0.078	0.025	0.011	U
79-01-6	Trichloroethene	0.032	0.095	0.032	0.013	U
123-91-1	1,4-Dioxane	0.047	0.14	0.047	0.017	U
142-82-5	n-Heptane	0.078	0.13	0.078	0.021	U
108-10-1	4-Methyl-2-pentanone	0.041	0.24	0.041	0.018	U
108-88-3	Toluene	0.045	0.14	0.045	0.017	U
591-78-6	2-Hexanone	0.042	0.24	0.042	0.016	U
124-48-1	Dibromochloromethane	0.020	0.061	0.020	0.0082	U
106-93-4	1,2-Dibromoethane	0.022	0.068	0.022	0.0081	U
127-18-4	Tetrachloroethene	0.025	0.077	0.025	0.010	U
100-41-4	Ethylbenzene	0.039	0.12	0.039	0.017	U
179601-23-1	m,p-Xylenes	0.078	0.23	0.078	0.032	U
75-25-2	Bromoform	0.031	0.051	0.031	0.011	U
100-42-5	Styrene	0.075	0.12	0.075	0.020	U
95-47-6	o-Xylene	0.039	0.12	0.039	0.018	U
108-67-8	1,3,5-Trimethylbenzene	0.035	0.11	0.035	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.035	0.11	0.035	0.015	U
120-82-1	1,2,4-Trichlorobenzene	0.043	0.13	0.043	0.018	U
91-20-3	Naphthalene	0.059	0.099	0.059	0.025	U
1330-20-7	Xylenes, Total	0.078	0.23	0.078	0.032	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/30/20

Analyst: Lusine Hakobyan

Date(s) Received: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 11/19/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201119-MB	92	108	109	70-130	
Lab Control Sample	P201119-LCS	92	108	110	70-130	
Duplicate Lab Control Sample	P201119-DLCS	92	108	110	70-130	
SV108-350-604	P2006267-001	94	107	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267  
 ALS Sample ID: P201119-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	122	128	124	105	102	57-136	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	42.5	38.6	38.6	91	91	59-128	0	25	
74-87-3	Chloromethane	99.8	101	98.0	101	98	59-132	3	25	
75-01-4	Vinyl Chloride	81.4	68.7	67.1	84	82	64-127	2	25	
106-99-0	1,3-Butadiene	95.0	87.5	84.9	92	89	66-134	3	25	
75-00-3	Chloroethane	77.3	80.1	78.8	104	102	63-127	2	25	
64-17-5	Ethanol	530	527	516	99	97	59-125	2	25	
67-64-1	Acetone	435	390	383	90	88	58-128	2	25	
75-69-4	Trichlorofluoromethane	36.3	34.4	34.4	95	95	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	166	178	175	107	105	52-125	2	25	
75-09-2	Methylene Chloride	59.9	57.8	57.7	96	96	62-115	0	25	
76-13-1	Trichlorotrifluoroethane	27.9	27.4	27.7	98	99	66-126	1	25	
75-15-0	Carbon Disulfide	137	133	133	97	97	57-134	0	25	
75-34-3	1,1-Dichloroethane	52.4	51.6	52.1	98	99	68-126	1	25	
78-93-3	2-Butanone (MEK)	140	142	141	101	101	67-130	0	25	
141-78-6	Ethyl Acetate	117	131	130	112	111	65-128	0.9	25	
110-54-3	n-Hexane	60.2	52.5	52.6	87	87	63-120	0	25	
67-66-3	Chloroform	43.8	40.5	40.5	92	92	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	136	134	133	99	98	64-123	1	25	
107-06-2	1,2-Dichloroethane	51.4	48.2	48.6	94	95	65-128	1	25	
71-43-2	Benzene	63.9	62.5	62.0	98	97	69-119	1	25	
56-23-5	Carbon Tetrachloride	33.4	31.8	31.9	95	96	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267  
 ALS Sample ID: P201119-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		DOD		RPD	RPD	Data
		LCS / DLCS	LCS / DLCS	LCS	DLCS	Acceptance	RPD			
		ppbV	ppbV	ppbV	ppbV	LCS	DLCS	Limits	Limit	
110-82-7	Cyclohexane	121	115	114		95	94	70-117	1	25
75-27-4	Bromodichloromethane	31.4	31.3	31.2		100	99	72-128	1	25
79-01-6	Trichloroethene	38.3	36.7	36.6		96	96	71-123	0	25
123-91-1	1,4-Dioxane	57.7	59.8	59.4		104	103	71-122	1	25
142-82-5	n-Heptane	51.3	50.4	50.0		98	97	69-123	1	25
108-10-1	4-Methyl-2-pentanone	102	106	105		104	103	67-130	1	25
108-88-3	Toluene	54.7	56.8	56.9		104	104	66-119	0	25
591-78-6	2-Hexanone	98.7	115	114		117	116	62-128	0.9	25
124-48-1	Dibromochloromethane	24.7	28.9	29.0		117	117	70-130	0	25
106-93-4	1,2-Dibromoethane	27.1	30.5	30.7		113	113	74-122	0	25
127-18-4	Tetrachloroethene	30.4	33.0	33.2		109	109	66-124	0	25
100-41-4	Ethylbenzene	47.4	50.2	50.3		106	106	70-124	0	25
179601-23-1	m,p-Xylenes	94.9	97.1	97.3		102	103	61-134	1	25
75-25-2	Bromoform	20.1	22.8	23.1		113	115	66-139	2	25
100-42-5	Styrene	48.4	56.9	57.0		118	118	73-127	0	25
95-47-6	o-Xylene	47.4	49.8	49.7		105	105	67-125	0	25
108-67-8	1,3,5-Trimethylbenzene	41.9	45.2	45.3		108	108	67-130	0	25
95-63-6	1,2,4-Trimethylbenzene	41.5	42.8	42.9		103	103	66-132	0	25
120-82-1	1,2,4-Trichlorobenzene	52.3	66.3	67.6		127	129	55-142	2	25
91-20-3	Naphthalene	37.8	50.2	51.1		133	135	57-138	1	25

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-350-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267

ALS Sample ID: P2006267-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00893

Date Collected: 10/30/20

Date Received: 11/4/20

Date Analyzed: 11/19/20

Volume(s) Analyzed: 0.10 Liter(s)

0.020 Liter(s)

Initial Pressure (psig): -2.34 Final Pressure (psig): 6.55

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	23	8.9	5.5	2.2	
75-71-8	Dichlorodifluoromethane (CFC 12)	8.7	8.9	5.5	1.5	J
74-87-3	Chloromethane	5.5	8.9	5.5	1.5	U
75-01-4	Vinyl Chloride	2.9	9.1	2.9	0.98	U
106-99-0	1,3-Butadiene	5.5	8.9	5.5	1.5	U
75-00-3	Chloroethane	5.5	8.9	5.5	1.1	U
64-17-5	Ethanol	14	91	14	6.4	U
67-64-1	Acetone	220	89	46	21	
75-69-4	Trichlorofluoromethane	20	8.8	5.5	1.4	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.8	17	11	3.8	J
75-09-2	Methylene Chloride	5.5	8.9	5.5	2.6	U
76-13-1	Trichlorotrifluoroethane	2,300	46	15	6.5	D
75-15-0	Carbon Disulfide	29	17	9.3	2.8	
75-34-3	1,1-Dichloroethane	5.7	9.3	5.7	1.3	U
78-93-3	2-Butanone (MEK)	27	17	5.5	1.9	
141-78-6	Ethyl Acetate	11	17	11	4.8	U
110-54-3	n-Hexane	63	8.9	5.5	1.9	
67-66-3	Chloroform	8.0	9.1	2.9	1.2	J
109-99-9	Tetrahydrofuran (THF)	1.3	17	2.9	1.2	J
107-06-2	1,2-Dichloroethane	2.9	8.9	2.9	1.0	U
71-43-2	Benzene	4.0	8.9	2.9	1.3	J
56-23-5	Carbon Tetrachloride	88	8.8	2.9	1.3	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

D = The reported result is from a dilution.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.**Client Sample ID:** SV108-350-604**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267

ALS Sample ID: P2006267-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 1.0 L Silonite Summa Canister

Test Notes:

Container ID: 1SS00893

Date Collected: 10/30/20

Date Received: 11/4/20

Date Analyzed: 11/19/20

Volume(s) Analyzed: 0.10 Liter(s)

0.020 Liter(s)

Initial Pressure (psig): -2.34 Final Pressure (psig): 6.55

Container Dilution Factor: 1.72

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	<b>480</b>	17	5.8	2.6	
75-27-4	Bromodichloromethane	2.9	8.9	2.9	1.3	U
79-01-6	Trichloroethene	<b>11</b>	8.8	2.9	1.2	
123-91-1	1,4-Dioxane	2.9	8.9	2.9	1.1	U
142-82-5	n-Heptane	<b>100</b>	8.9	5.5	1.5	
108-10-1	4-Methyl-2-pentanone	2.9	17	2.9	1.3	U
108-88-3	Toluene	<b>98</b>	8.9	2.9	1.1	
591-78-6	2-Hexanone	2.9	17	2.9	1.1	U
124-48-1	Dibromochloromethane	2.9	8.9	2.9	1.2	U
106-93-4	1,2-Dibromoethane	2.9	8.9	2.9	1.1	U
127-18-4	Tetrachloroethene	<b>18</b>	8.9	2.9	1.2	
100-41-4	Ethylbenzene	<b>33</b>	8.9	2.9	1.3	
179601-23-1	m,p-Xylenes	<b>110</b>	17	5.8	2.4	
75-25-2	Bromoform	5.5	9.1	5.5	1.9	U
100-42-5	Styrene	5.5	8.9	5.5	1.5	U
95-47-6	o-Xylene	<b>41</b>	9.1	2.9	1.3	
108-67-8	1,3,5-Trimethylbenzene	<b>30</b>	9.1	2.9	1.3	
95-63-6	1,2,4-Trimethylbenzene	<b>110</b>	8.9	2.9	1.3	
120-82-1	1,2,4-Trichlorobenzene	5.5	17	5.5	2.2	U
91-20-3	Naphthalene	<b>41</b>	8.9	5.3	2.2	
1330-20-7	Xylenes, Total	<b>150</b>	17	5.8	2.4	

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.

LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267  
 ALS Sample ID: P201119-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
115-07-1	Propene	0.32	0.52	0.32	0.13	U
75-71-8	Dichlorodifluoromethane (CFC 12)	0.32	0.52	0.32	0.087	U
74-87-3	Chloromethane	0.32	0.52	0.32	0.086	U
75-01-4	Vinyl Chloride	0.17	0.53	0.17	0.057	U
106-99-0	1,3-Butadiene	0.32	0.52	0.32	0.088	U
75-00-3	Chloroethane	0.32	0.52	0.32	0.066	U
64-17-5	Ethanol	0.83	5.3	0.83	0.37	U
67-64-1	Acetone	2.7	5.2	2.7	1.2	U
75-69-4	Trichlorofluoromethane	0.32	0.51	0.32	0.081	U
67-63-0	2-Propanol (Isopropyl Alcohol)	0.63	1.0	0.63	0.22	U
75-09-2	Methylene Chloride	0.32	0.52	0.32	0.15	U
76-13-1	Trichlorotrifluoroethane	0.17	0.53	0.17	0.076	U
75-15-0	Carbon Disulfide	0.54	1.0	0.54	0.16	U
75-34-3	1,1-Dichloroethane	0.33	0.54	0.33	0.078	U
78-93-3	2-Butanone (MEK)	0.32	1.0	0.32	0.11	U
141-78-6	Ethyl Acetate	0.65	1.0	0.65	0.28	U
110-54-3	n-Hexane	0.32	0.52	0.32	0.11	U
67-66-3	Chloroform	0.17	0.53	0.17	0.071	U
109-99-9	Tetrahydrofuran (THF)	0.17	1.0	0.17	0.067	U
107-06-2	1,2-Dichloroethane	0.17	0.52	0.17	0.059	U
71-43-2	Benzene	0.17	0.52	0.17	0.077	U
56-23-5	Carbon Tetrachloride	0.17	0.51	0.17	0.074	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Method Blank  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267  
 ALS Sample ID: P201119-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/19/20  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	LOQ µg/m <sup>3</sup>	LOD µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Data Qualifier
110-82-7	Cyclohexane	0.34	1.0	0.34	0.15	U
75-27-4	Bromodichloromethane	0.17	0.52	0.17	0.077	U
79-01-6	Trichloroethene	0.17	0.51	0.17	0.072	U
123-91-1	1,4-Dioxane	0.17	0.52	0.17	0.063	U
142-82-5	n-Heptane	0.32	0.52	0.32	0.085	U
108-10-1	4-Methyl-2-pentanone	0.17	1.0	0.17	0.073	U
108-88-3	Toluene	0.17	0.52	0.17	0.065	U
591-78-6	2-Hexanone	0.17	1.0	0.17	0.066	U
124-48-1	Dibromochloromethane	0.17	0.52	0.17	0.070	U
106-93-4	1,2-Dibromoethane	0.17	0.52	0.17	0.062	U
127-18-4	Tetrachloroethene	0.17	0.52	0.17	0.069	U
100-41-4	Ethylbenzene	0.17	0.52	0.17	0.075	U
179601-23-1	m,p-Xylenes	0.34	1.0	0.34	0.14	U
75-25-2	Bromoform	0.32	0.53	0.32	0.11	U
100-42-5	Styrene	0.32	0.52	0.32	0.086	U
95-47-6	o-Xylene	0.17	0.53	0.17	0.077	U
108-67-8	1,3,5-Trimethylbenzene	0.17	0.53	0.17	0.077	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.52	0.17	0.074	U
120-82-1	1,2,4-Trichlorobenzene	0.32	1.0	0.32	0.13	U
91-20-3	Naphthalene	0.31	0.52	0.31	0.13	U
1330-20-7	Xylenes, Total	0.34	1.0	0.34	0.14	U

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis.  
 LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

## SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc.**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 10/30/20

Analyst: Lusine Hakobyan

Date(s) Received: 11/4/20

Sampling Media: 1.0 L Silonite Summa Canister(s)

Date(s) Analyzed: 11/19/20

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P201119-MB	92	108	109	70-130	
Lab Control Sample	P201119-LCS	92	108	110	70-130	
Duplicate Lab Control Sample	P201119-DLCS	93	108	110	70-130	
SV108-350-604	P2006267-001	94	107	106	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267  
 ALS Sample ID: P201119-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		DOD	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
115-07-1	Propene	210	221	213	105	101	57-136	4	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	191	191	91	91	59-128	0	25	
74-87-3	Chloromethane	206	208	202	101	98	59-132	3	25	
75-01-4	Vinyl Chloride	208	176	171	85	82	64-127	4	25	
106-99-0	1,3-Butadiene	210	193	188	92	90	66-134	2	25	
75-00-3	Chloroethane	204	211	208	103	102	63-127	1	25	
64-17-5	Ethanol	998	993	972	99	97	59-125	2	25	
67-64-1	Acetone	1,030	927	909	90	88	58-128	2	25	
75-69-4	Trichlorofluoromethane	204	193	193	95	95	62-126	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	438	431	107	106	52-125	0.9	25	
75-09-2	Methylene Chloride	208	201	200	97	96	62-115	1	25	
76-13-1	Trichlorotrifluoroethane	214	210	212	98	99	66-126	1	25	
75-15-0	Carbon Disulfide	428	414	414	97	97	57-134	0	25	
75-34-3	1,1-Dichloroethane	212	209	211	99	100	68-126	1	25	
78-93-3	2-Butanone (MEK)	412	418	416	101	101	67-130	0	25	
141-78-6	Ethyl Acetate	422	473	470	112	111	65-128	0.9	25	
110-54-3	n-Hexane	212	185	185	87	87	63-120	0	25	
67-66-3	Chloroform	214	198	198	93	93	68-123	0	25	
109-99-9	Tetrahydrofuran (THF)	400	395	392	99	98	64-123	1	25	
107-06-2	1,2-Dichloroethane	208	195	197	94	95	65-128	1	25	
71-43-2	Benzene	204	200	198	98	97	69-119	1	25	
56-23-5	Carbon Tetrachloride	210	200	201	95	96	68-132	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 2

**Client:** EA Engineering, Science, and Technology, Inc.  
**Client Sample ID:** Duplicate Lab Control Sample  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

ALS Project ID: P2006267  
 ALS Sample ID: P201119-DLCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sampling Media: 1.0 L Silonite Summa Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 11/19/20  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		DOD		RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	% Recovery	Acceptance	RPD			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier	
110-82-7	Cyclohexane	416	394	391	95	94	70-117	1	25	
75-27-4	Bromodichloromethane	210	210	209	100	100	72-128	0	25	
79-01-6	Trichloroethene	206	197	197	96	96	71-123	0	25	
123-91-1	1,4-Dioxane	208	215	214	103	103	71-122	0	25	
142-82-5	n-Heptane	210	206	205	98	98	69-123	0	25	
108-10-1	4-Methyl-2-pentanone	416	433	429	104	103	67-130	1	25	
108-88-3	Toluene	206	214	214	104	104	66-119	0	25	
591-78-6	2-Hexanone	404	470	468	116	116	62-128	0	25	
124-48-1	Dibromochloromethane	210	246	247	117	118	70-130	0.9	25	
106-93-4	1,2-Dibromoethane	208	234	236	113	113	74-122	0	25	
127-18-4	Tetrachloroethene	206	223	225	108	109	66-124	0.9	25	
100-41-4	Ethylbenzene	206	218	218	106	106	70-124	0	25	
179601-23-1	m,p-Xylenes	412	421	423	102	103	61-134	1	25	
75-25-2	Bromoform	208	236	239	113	115	66-139	2	25	
100-42-5	Styrene	206	242	243	117	118	73-127	0.9	25	
95-47-6	o-Xylene	206	216	216	105	105	67-125	0	25	
108-67-8	1,3,5-Trimethylbenzene	206	222	223	108	108	67-130	0	25	
95-63-6	1,2,4-Trimethylbenzene	204	210	211	103	103	66-132	0	25	
120-82-1	1,2,4-Trichlorobenzene	388	492	501	127	129	55-142	2	25	
91-20-3	Naphthalene	198	263	268	133	135	57-138	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

## ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** EA Engineering, Science, and Technology, Inc. ALS Project ID: P2006267  
**Client Project ID:** Kirtland AFB Bulk Fuels Facility / 62735DM02

## Internal Standard Area and RT Summary

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 11192002.D  
Analyst: Lusine Hakobyan Date Analyzed: 11/19/20  
Sampling Media: 1.0 L Silonite Summa Canister(s) Time Analyzed: 03:41  
Test Notes:

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	220749	11.22	943823	13.34	185424	17.64
<b>Upper Limit</b>	309049	11.55	1321352	13.67	259594	17.97
<b>Lower Limit</b>	132449	10.89	566294	13.01	111254	17.31

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
01	Method Blank	212020	11.19	179707
02	Lab Control Sample	217532	11.22	183417
03	Duplicate Lab Control Sample	215850	11.22	182119
04	SV108-350-604	200973	11.20	175408
05	SV108-350-604 (Dilution)	217981	11.20	188503
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.

## **APPENDIX D-4**

### **Mann-Kendall Trend Analysis of 2020 Soil Vapor Data**

## ATTACHMENTS

Attachment 1 ProUCL Mann-Kendall Trend Analysis Output

Attachment 2 ProUCL Outlier Analysis Output

## LIST OF ACRONYMS AND ABBREVIATIONS

EDB	ethylene dibromide
EPA	U.S. Environmental Protection Agency
HC	hydrocarbon
MDL	method detection limit
ppm	part per million
p-value	calculated probability
Q	quarter
S	Kendall score
SVMP	soil vapor monitoring point

## D-4.1 Mann-Kendall Trend Analysis of 2020 Soil Vapor Data

A statistical analysis was performed on selected soil vapor monitoring points (SVMPs) collected between quarter (Q)1 2016 and Q4 2020. Hydrocarbons (HCs), ethylene dibromide (EDB), and benzene were analyzed to determine if any statistically significant trends existed when analyte concentrations were evaluated over time. Any SVMP with an HC concentration of 20 parts per million (ppm) or greater during any quarter within this time span was included in the evaluation. Between Q1 2016 and Q4 2020, 97 out of 284 SVMPs contained HC concentrations of 20 ppm or greater during at least one quarter and were selected for evaluation. However, 13 of the 97 selected SVMPs were not sampled in 2020 due to bioventing activities, the remaining 84 SVMPs were evaluated. The other 200 SVMPs contained HC concentrations between 0 and 20 ppm, which are considered background concentrations; therefore, they were not included in the evaluation. Attachment 1 summarizes results of the Mann-Kendall analyses. After running the Mann-Kendall analyses at each selected SVMP, outlier tests were run in ProUCL for SVMPs that exhibited points that were suspected to be outliers. If a point was determined to be an outlier, it was removed from the dataset. The Mann Kendall analysis was then re-performed to determine whether a trend was present without the outlier. Professional judgement was used to identify potential outliers on which to run the outlier test. An attempt was made not to perform outlier tests, or remove outlying data, from locations in the source area that may have been influenced by the bioventing pilot test. Attachment 2 contains the results of the ProUCL Outlier Tests.

### D-4.1.1 Mann-Kendall Trend Analysis Method

The Mann-Kendall trend analysis is a test that evaluates whether a data series tends to increase or decrease with time by comparing each later-measured value to all the earlier measured values (Walpole et al., 2007). Due to the robustness to outliers, the Mann-Kendall analysis has been used for trend analysis of various types of environmental data (Hipel and McLeod, 1994).

The Mann-Kendall trend analysis seeks to either confirm or reject the null hypothesis that no trend is present, and the data series are independent of time. In the event the null hypothesis cannot be rejected the data may exhibit a random normal distribution (Walpole et al., 2007). The Mann-Kendall analysis uses the Kendall score (S) test statistics to determine whether there is a trend in the time series data.

S is computed by comparing the later-measured value to the previous values and assigning either a -1, 0, or 1, based on whether there is a decrease among the values, the values are equal, or there is an increase among the values. S is then computed as a summation of these assigned values. When S is a large positive number, there is an increasing/positive trend in the data. The maximum and minimum values of S depend on the number of measured data points. When S is a large negative number, there is a decreasing trend in the data; when the absolute value S is small, there is no trend in the data (Walpole et al., 2007).

If the null hypothesis is rejected because the absolute values of S are significantly different from zero, the Theil-Sen slope can be calculated and used to determine the average rate of change. The Theil-Sen's slope is the average of the rate of change between the measured data points (Walpole et al., 2007).

The Mann-Kendall analysis assumes that the data do not conform to a normal random distribution, and that a measured data point can be considered less than, equal to, or greater than another measured value in the time series (Walpole et al., 2007).

### D-4.1.2 Statistical Analysis Software Package (ProUCL)

For the purposes of this study, the software package ProUCL Version 5.1.002 was used. ProUCL is a statistical software package to analyze environmental datasets with and without non-detect observations (U.S. Environmental Protection Agency [EPA], 2015). The desired time series data are entered into ProUCL and the Mann-Kendall trend analysis is selected and executed. ProUCL then calculates the values of S, the variance of S, and the Theil-Sen's slope (EPA, 2015).

In addition to performing the Mann-Kendall analysis on the data, ProUCL provides the calculated probability (p-value) for the desired confidence interval as another measurement to rejecting the null and also determines if the use of the Mann-Kendall approach is appropriate (EPA, 2015).

The p-value for a data series is a measurement of normality in the data and also provides a measurement of statistical significance for a linear trend in the data (EPA, 2015). The p-value ranges from 0 to 1 and is a normalized function of the residual data measurements, i.e., deviation from the dataset's mean value (Walpole et al., 2007). A p-value equal to 1 indicates a perfect normal distribution and that the Mann-Kendall method of analysis is not appropriate, because it assumes a non-normal distribution (Walpole et al., 2007). A small p-value near zero indicates a non-normal distribution and a possible statistically significant trend. Statistical significance depends on the level of the confidence interval selected for the analysis (Walpole et al., 2007; EPA, 2015).

### D-4.1.3 Data Input and Assumptions

Data from the selected 84 SVMPs were input into ProUCL to perform the Mann-Kendall analysis. HC, EDB, and benzene were analyzed to determine if any statistically significant trends existed from Q1 2016 to Q4 2020.

Data from SVMPs were analyzed using a censored data Mann-Kendall analysis. Censored data refers to datasets containing non-detect concentrations, which are only partially known because they are between the laboratory method detection limit (MDL) and zero. In datasets containing one to six non-detect values, the values were assumed to be the MDL used by the laboratory at the time of reporting. This assumption would show that there was a decrease (-1) for the computation of S if the MDL was less than the previous measured values, an increase if the MDL was greater than the previous measured values (1), or 0 if it was the same as the previous values. This assumption is conservative in that it indicates there is a data point at that time in the series and assumes the maximum concentration at that time. Datasets that contained six or more non-detect values were not analyzed for a trend because at least 50% of the data points would be estimated, which would not provide an adequate dataset for statistical evaluation. SVMPs containing seven or more non-detect data points were therefore considered to have no trend.

ProUCL also calculates the p-value, so a 95% confidence interval was selected for this analysis. This means that p-values less than 0.05 indicate a statistically significant trend and rejection of the null hypothesis. A p-value greater than 0.05 would be considered failure to reject the null hypothesis.

### D-4.1.4 Results

The results of the Mann-Kendall analyses are presented in Attachment 1, ProUCL output. Of the 84 SVMPs included in the analysis, 50 SVMPs had an increasing or decreasing trend in HC, 11 SVMPs had

an increasing or decreasing trend in EDB, and 46 SVMPs had an increasing or decreasing trend in benzene.

The range of statistically significant p-values for HC, EDB, and benzene varied at each SVMP between 0 and 0.0434. P-values that were above the 95% confidence interval of 0.05 ranged from 0.0487 to 0.5000. The high variability of soil vapor data affected the outcome of the p-value at each SVMP. For example, an SVMP that yielded both increasing and decreasing HC values throughout the dataset would have a larger p-value than an SVMP where HC values consistently increased or decreased between Q1 2016 and Q4 2020. SVMPs with statistically significant increasing or decreasing trends are identified on Table 3-6 in the main report.

## D-4.2 References

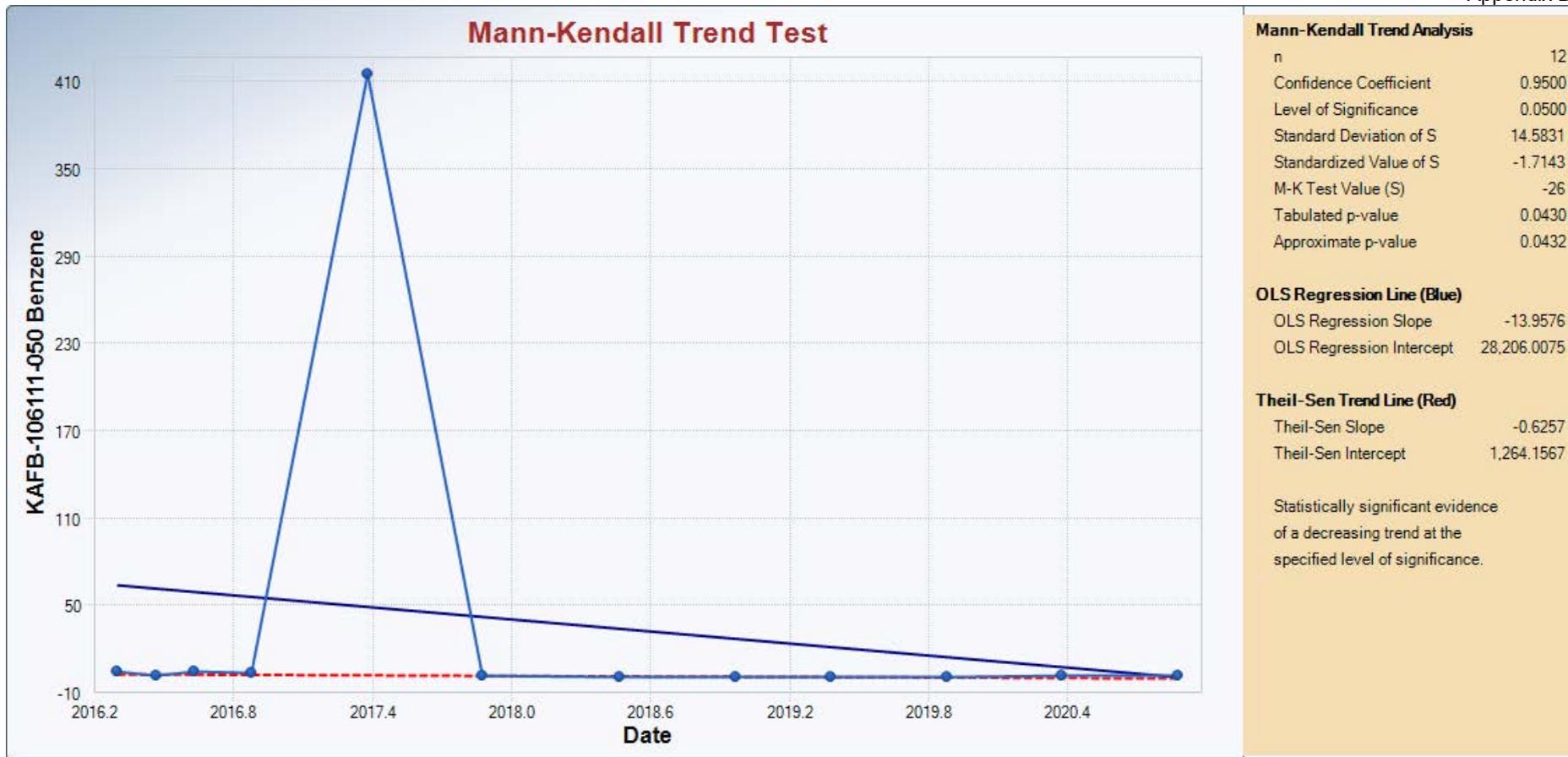
Hipel, K.W. and A.I. McLeod, 1994. *Time Series Modeling of Water Resources and Environmental Systems*, Amsterdam: Elsevier. ISBN: 0-444-89270-2.

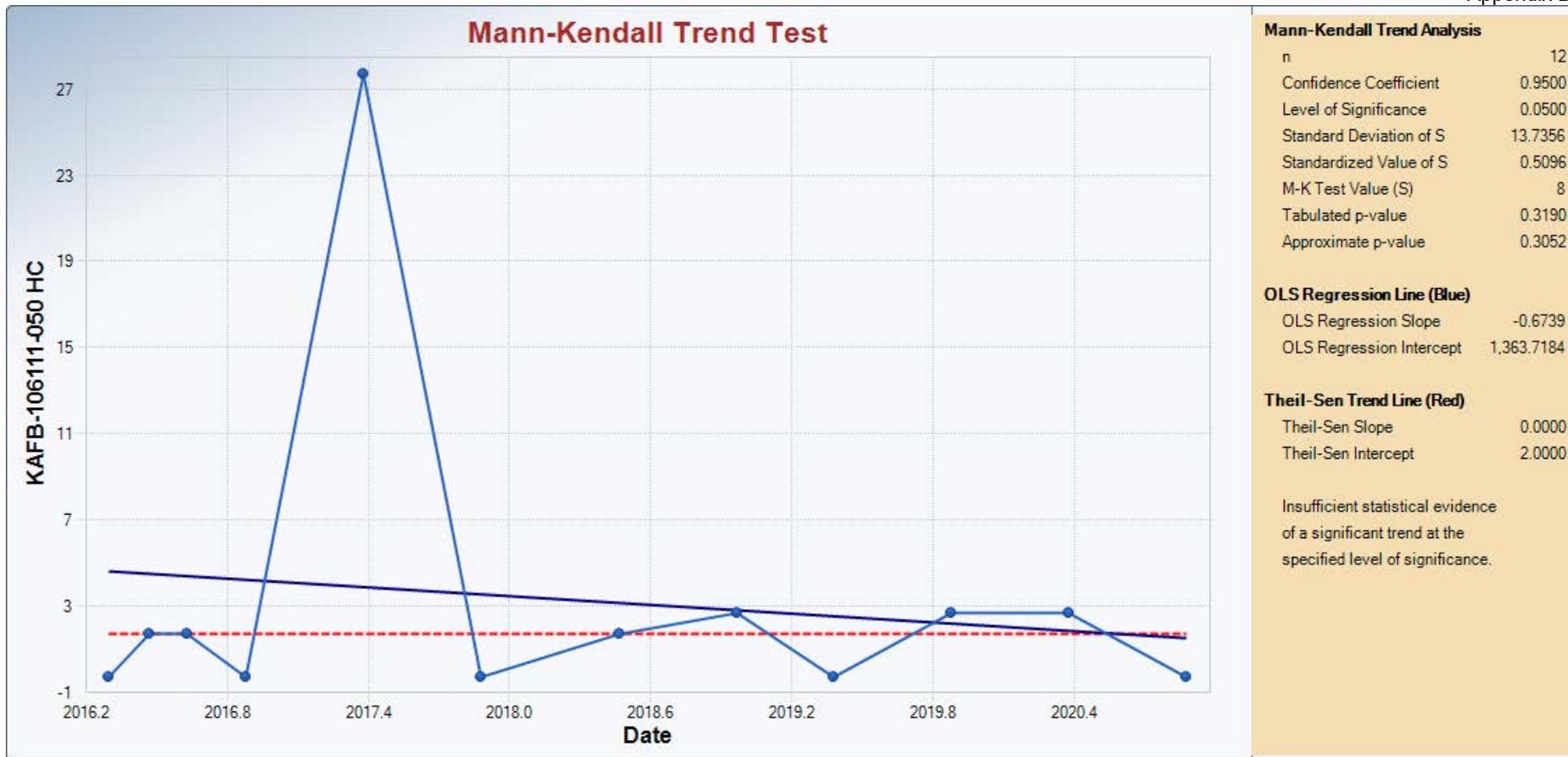
U.S. Environmental Protection Agency, 2015. *ProUCL Version 5.1 User Guide, Statistical Software for Environmental Applications for Data Sets with and without Nondetect Observations*. EPA600/R-07/041 [https://www.epa.gov/sites/production/files/2016-05/documents/proucl\\_5.1\\_user-guide.pdf](https://www.epa.gov/sites/production/files/2016-05/documents/proucl_5.1_user-guide.pdf). Downloaded 05/21/2016.

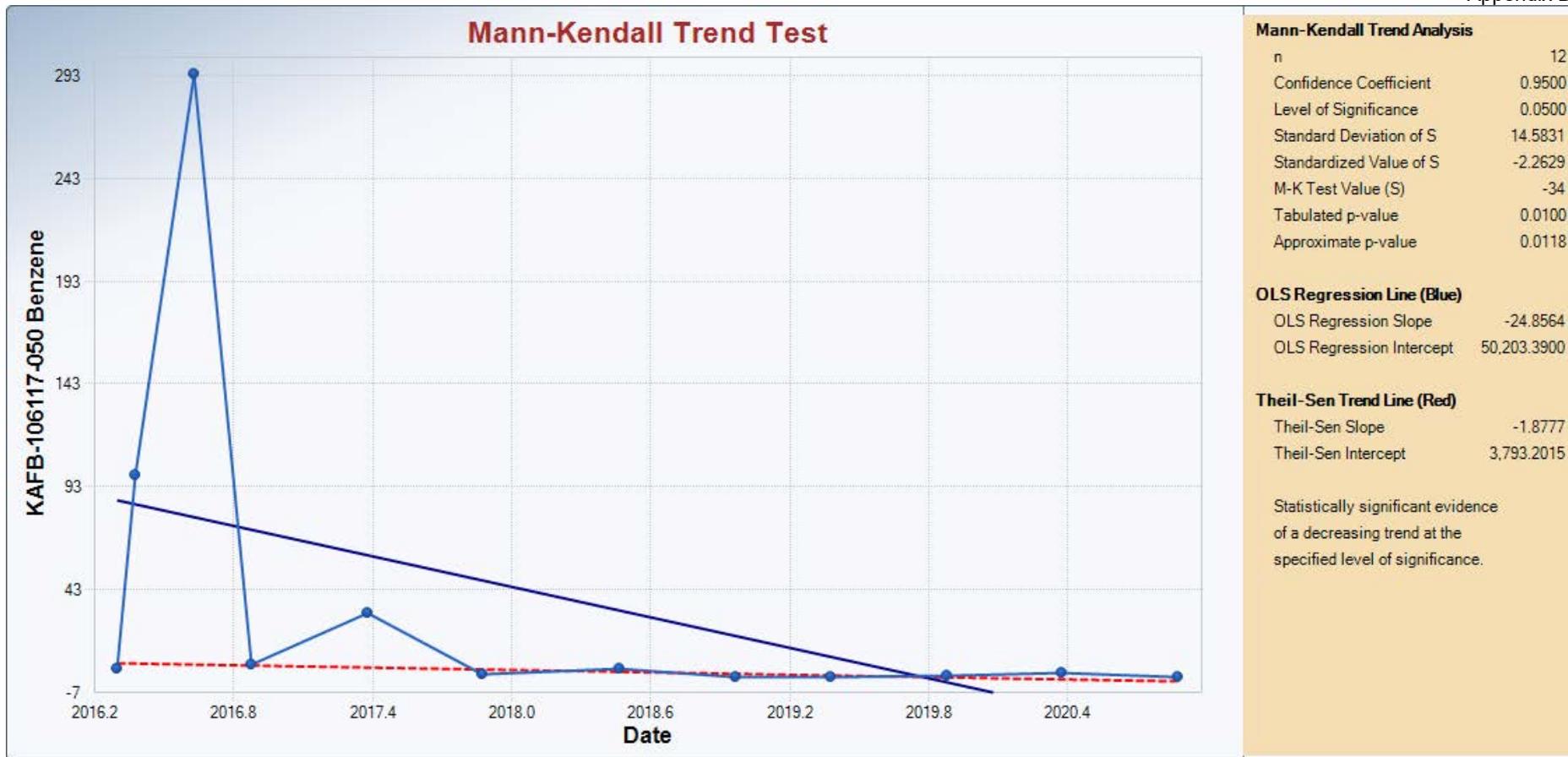
Walpole, R.E., H.R. Myers, S.L. Myers, K. Ye, 2007. *Probability and Statistics for Engineers and Scientist. Eighth Edition*. Pearson Prentice Hall. Upper Saddle River, New Jersey.

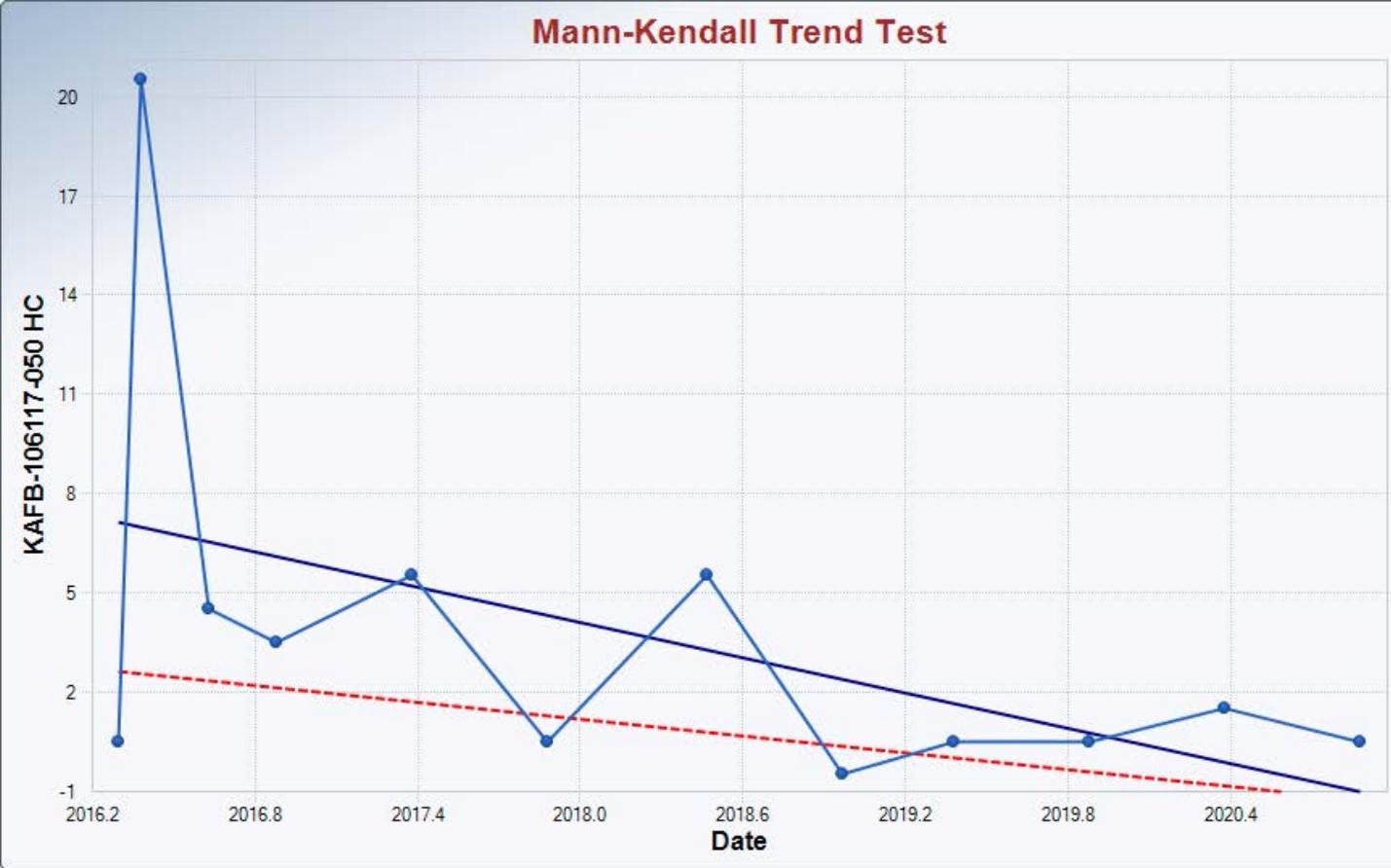
## **ATTACHMENT 1**

### **ProUCL Mann-Kendall Trend Analysis Output**

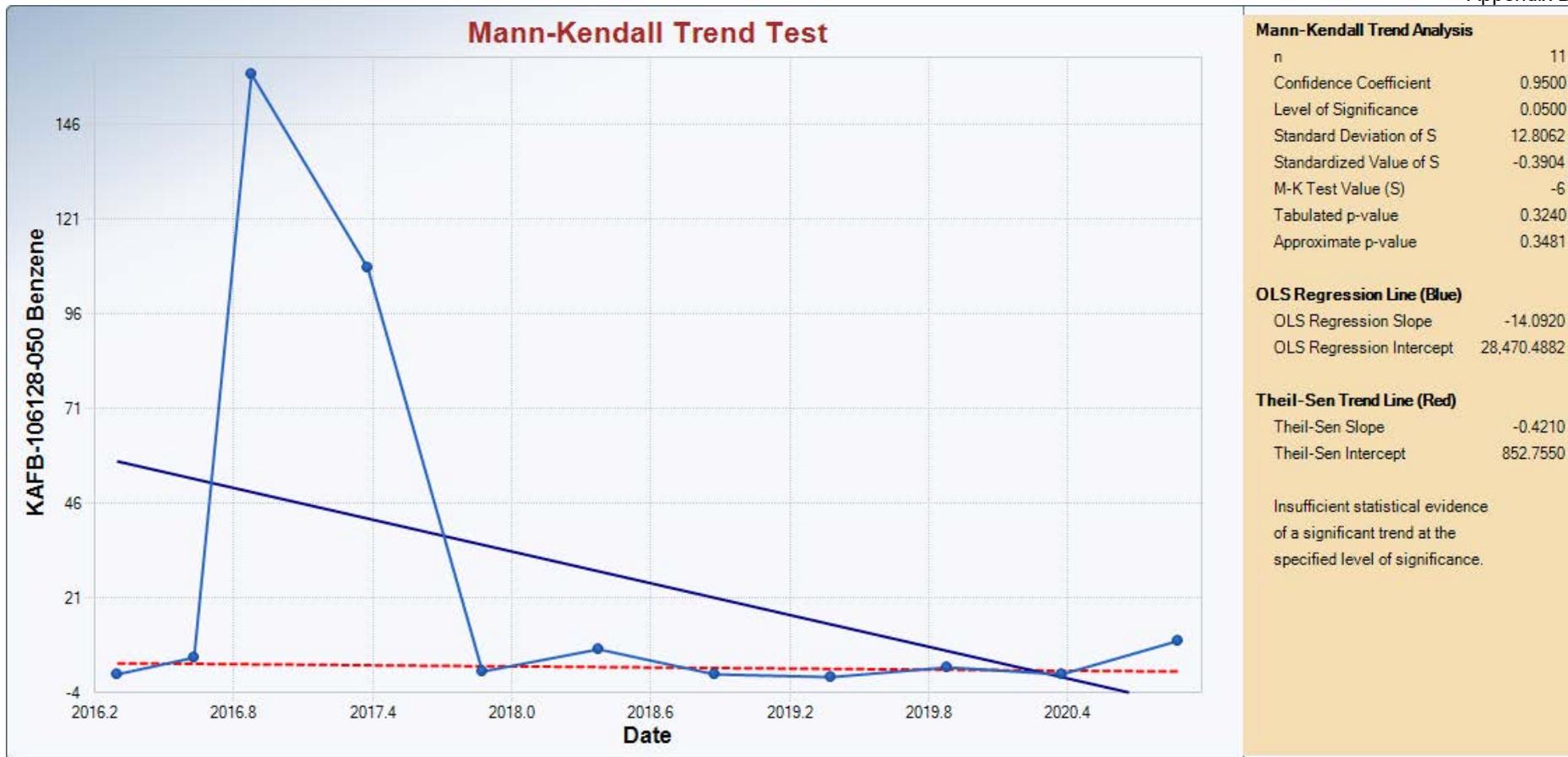


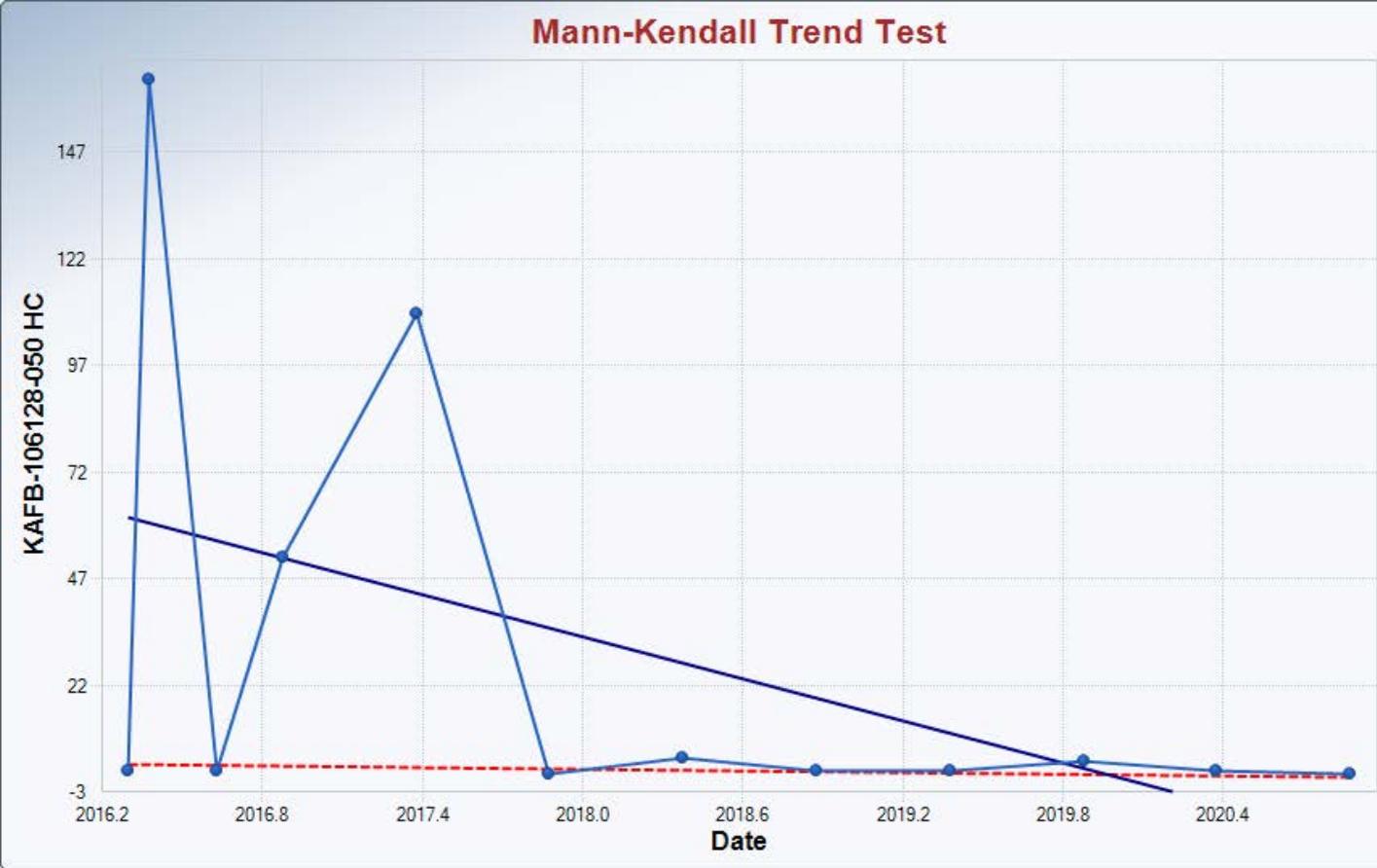




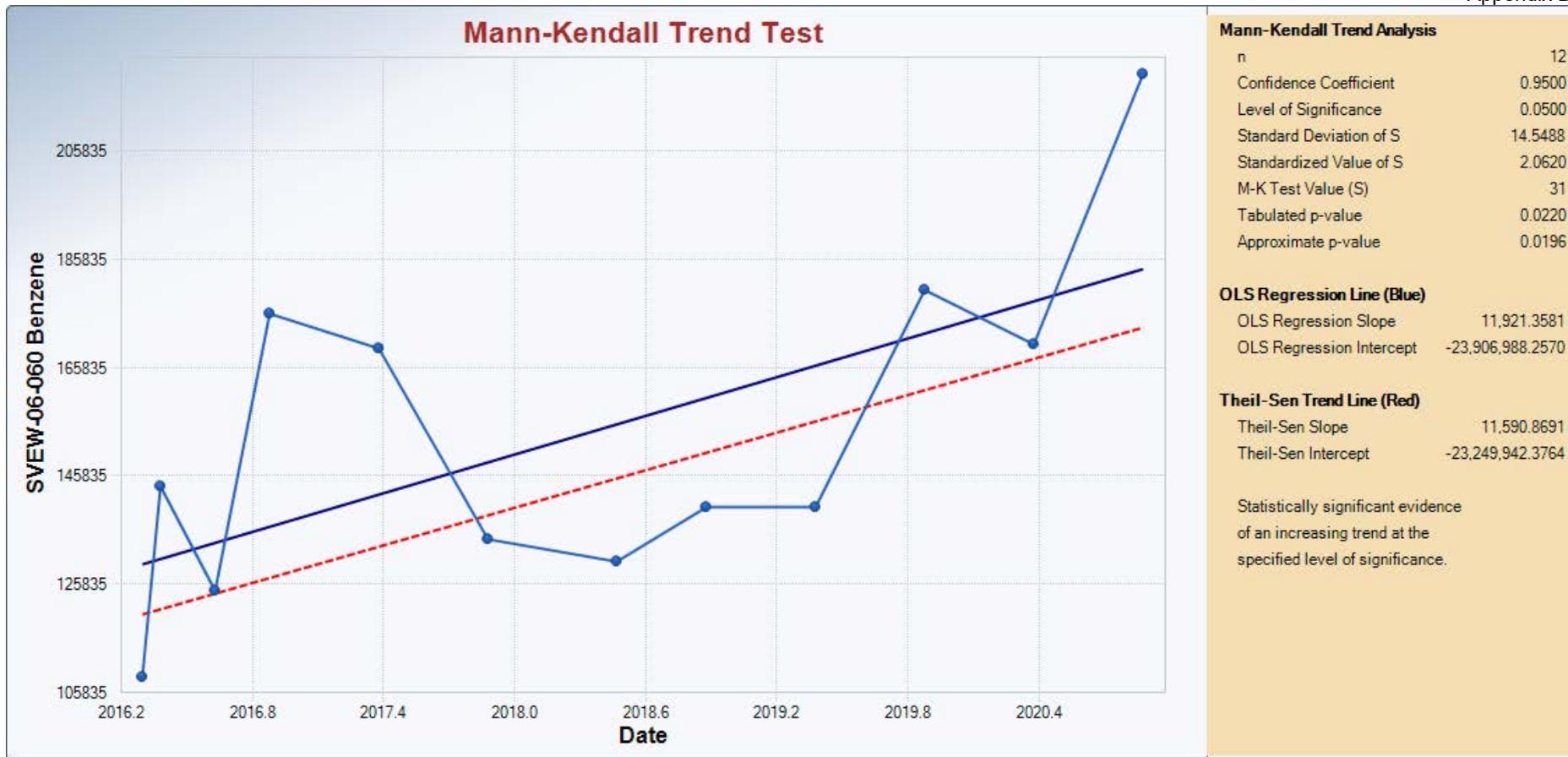


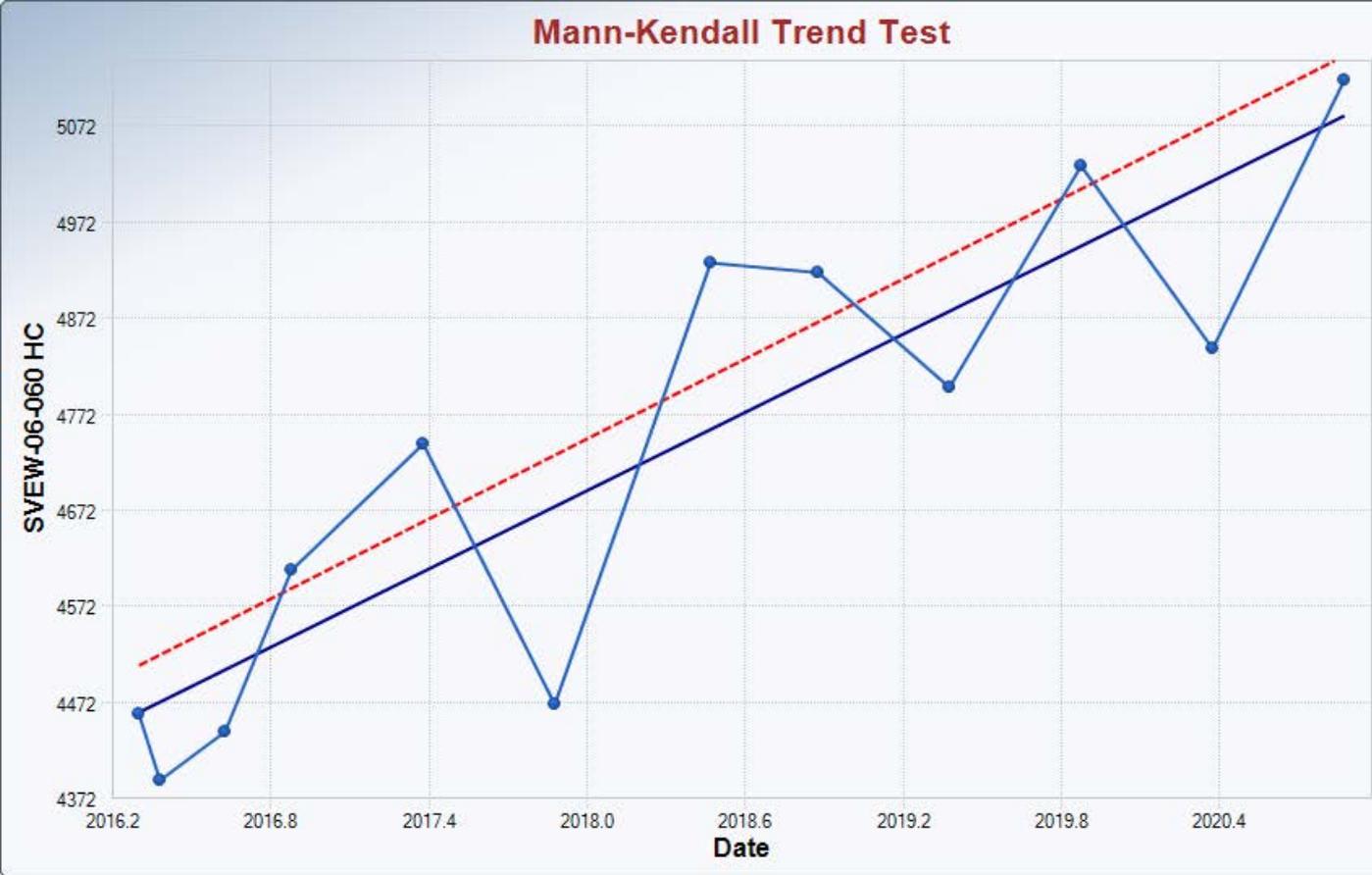
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	13.9642
Standardized Value of S	-1.2890
M-K Test Value (S)	-19
Tabulated p-value	0.1250
Approximate p-value	0.0987
OLS Regression Line (Blue)	
OLS Regression Slope	-1.7843
OLS Regression Intercept	3,605.2841
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.8587
Theil-Sen Intercept	1,734.4954
Insufficient statistical evidence of a significant trend at the specified level of significance.	



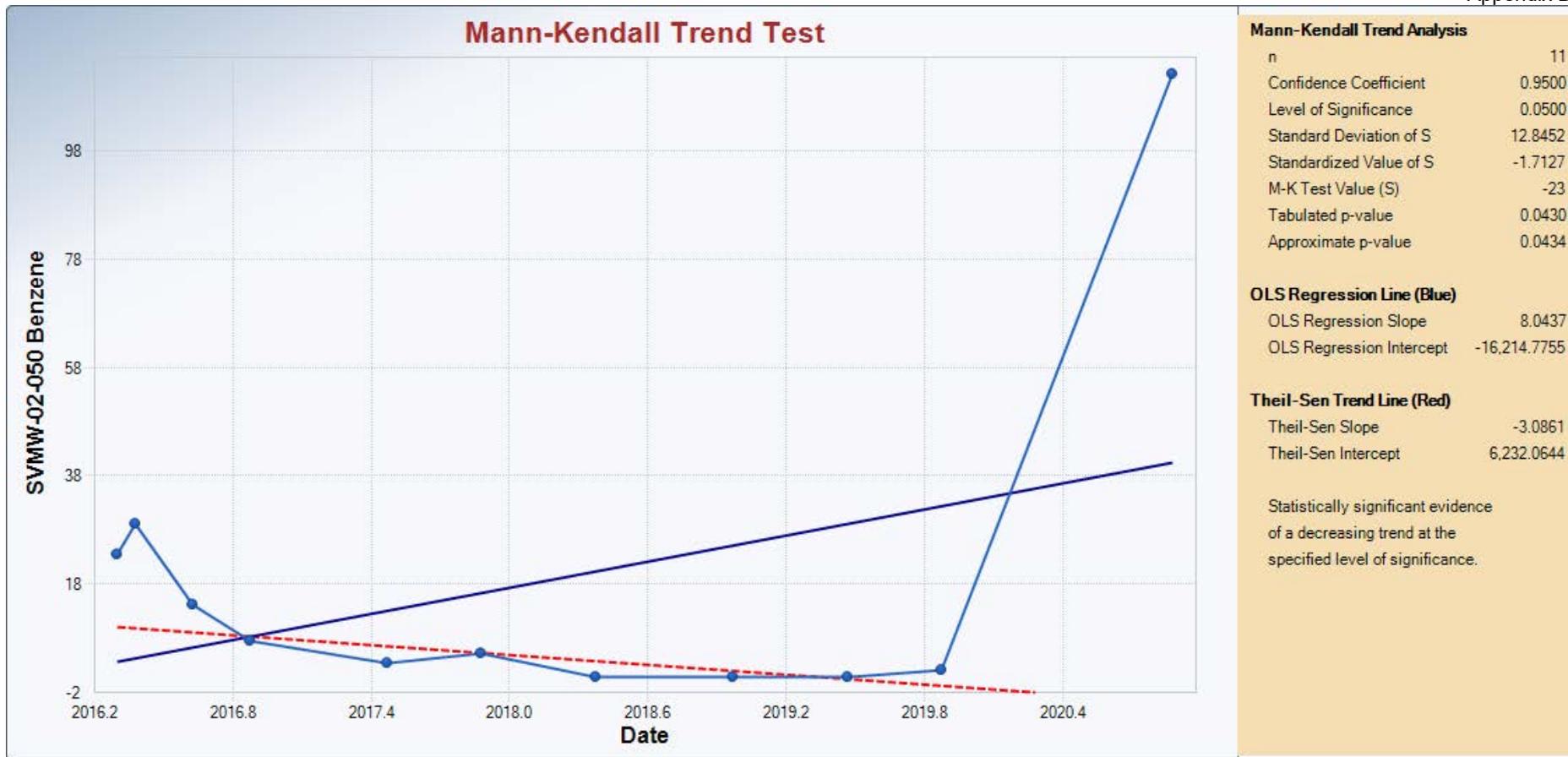


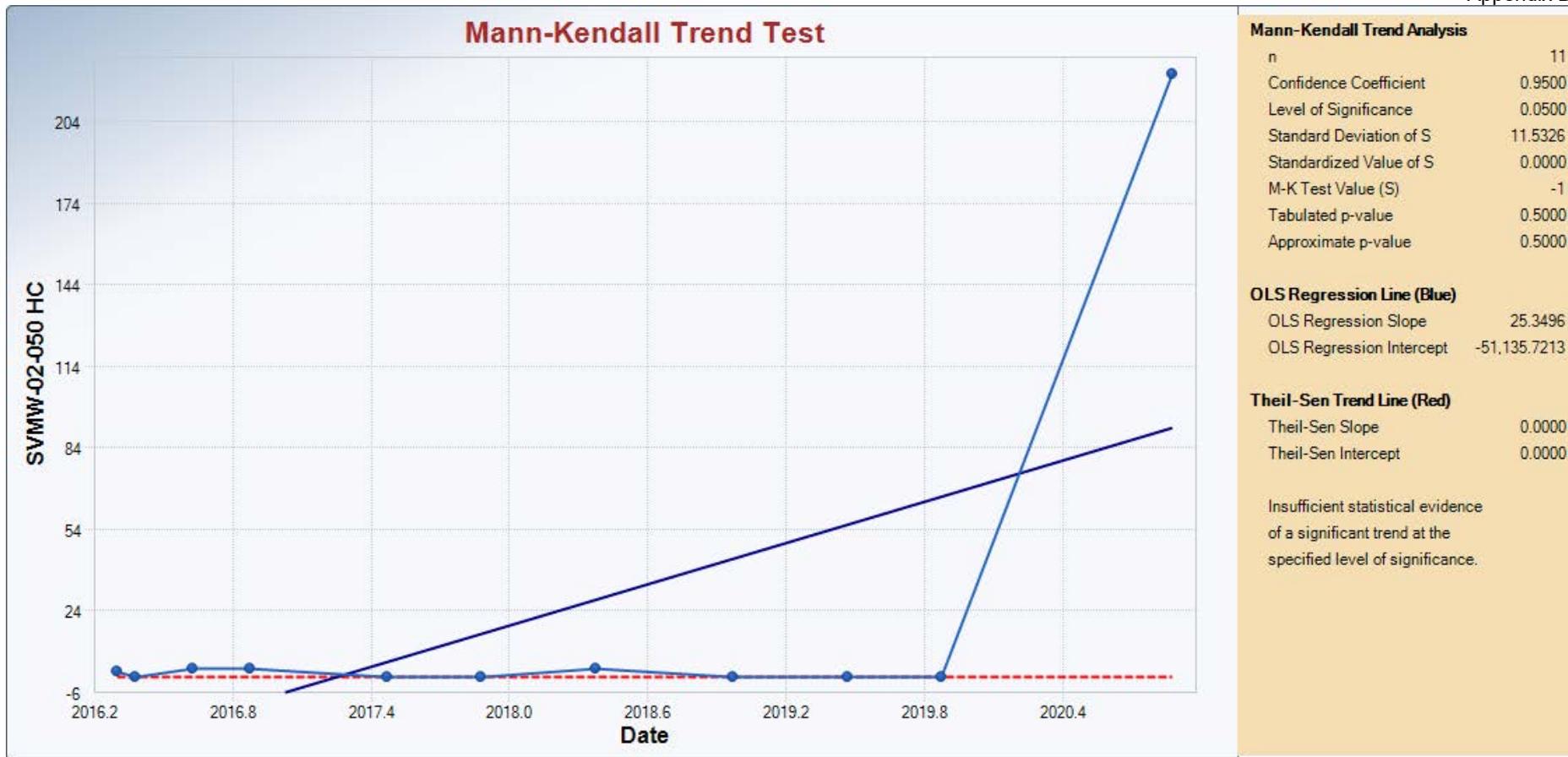
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	13.9642
Standardized Value of S	-1.4322
M-K Test Value (S)	-21
Tabulated p-value	0.0980
Approximate p-value	0.0760
OLS Regression Line (Blue)	
OLS Regression Slope	-16.4720
OLS Regression Intercept	33,272.9264
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.6667
Theil-Sen Intercept	1,347.3867
Insufficient statistical evidence of a significant trend at the specified level of significance.	

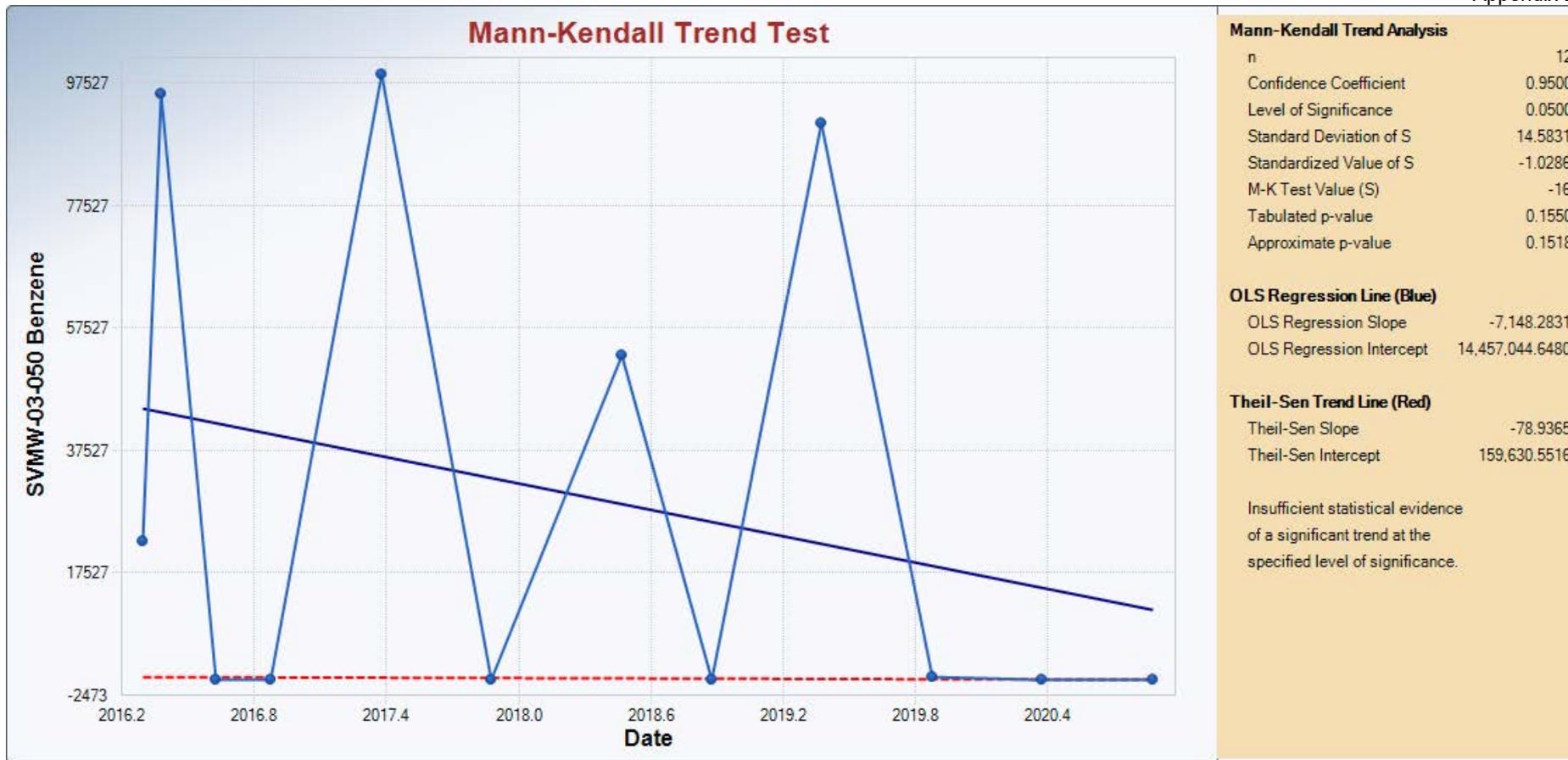


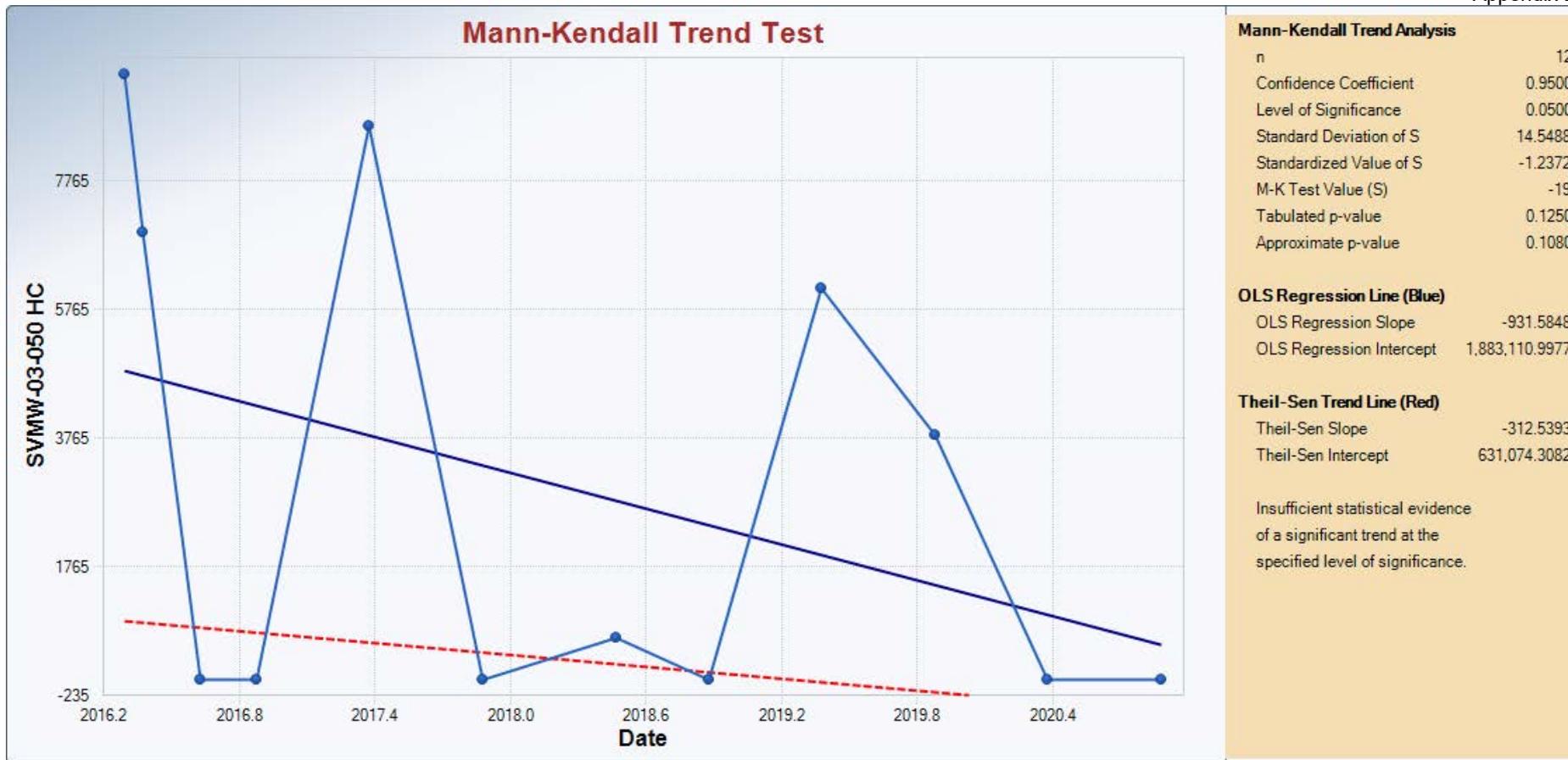


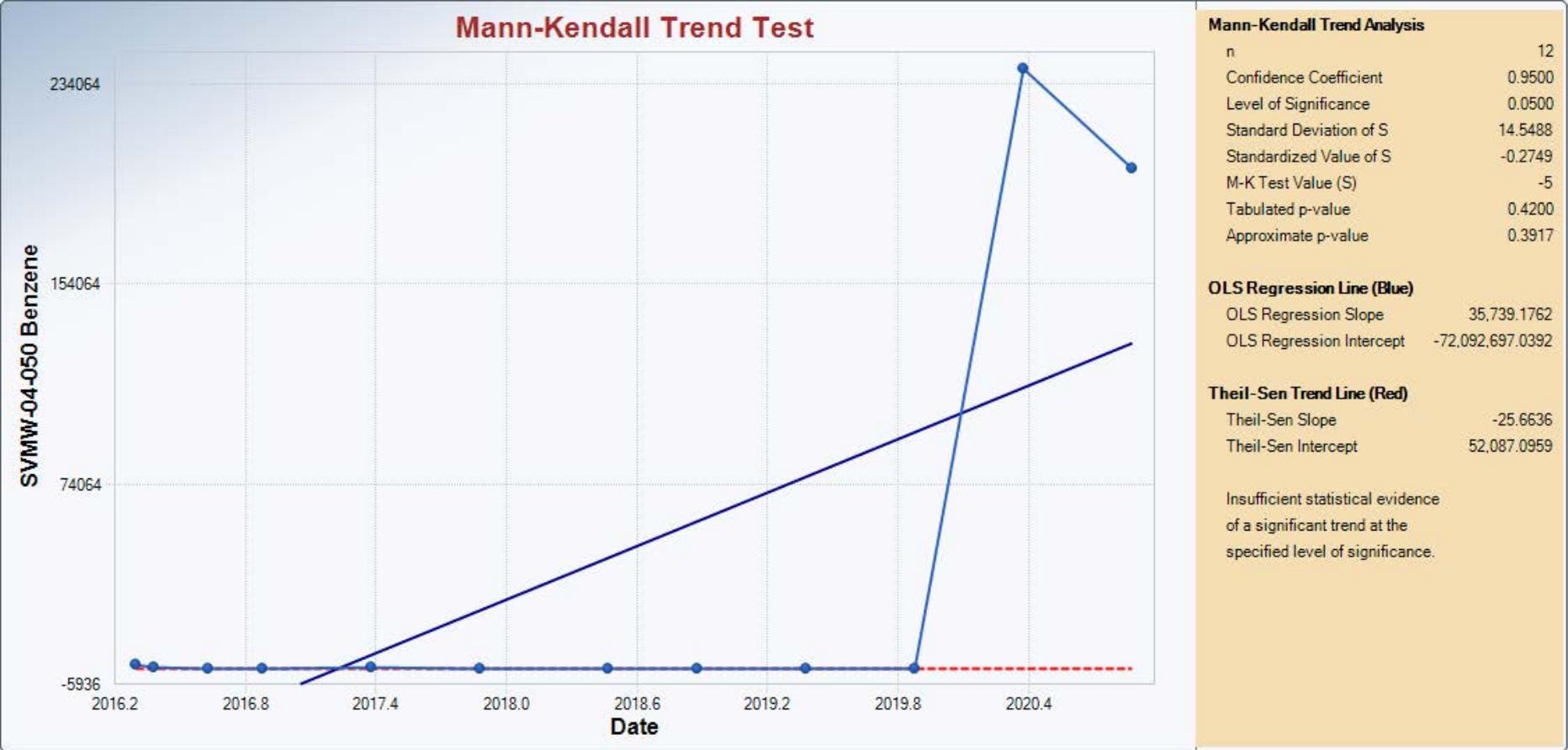
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	3.0858
M-K Test Value (S)	46
Tabulated p-value	0.0000
Approximate p-value	0.0010
OLS Regression Line (Blue)	
OLS Regression Slope	135.9124
OLS Regression Intercept	-269,572.7964
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	138.3333
Theil-Sen Intercept	-274,403.9583
Statistically significant evidence of an increasing trend at the specified level of significance.	

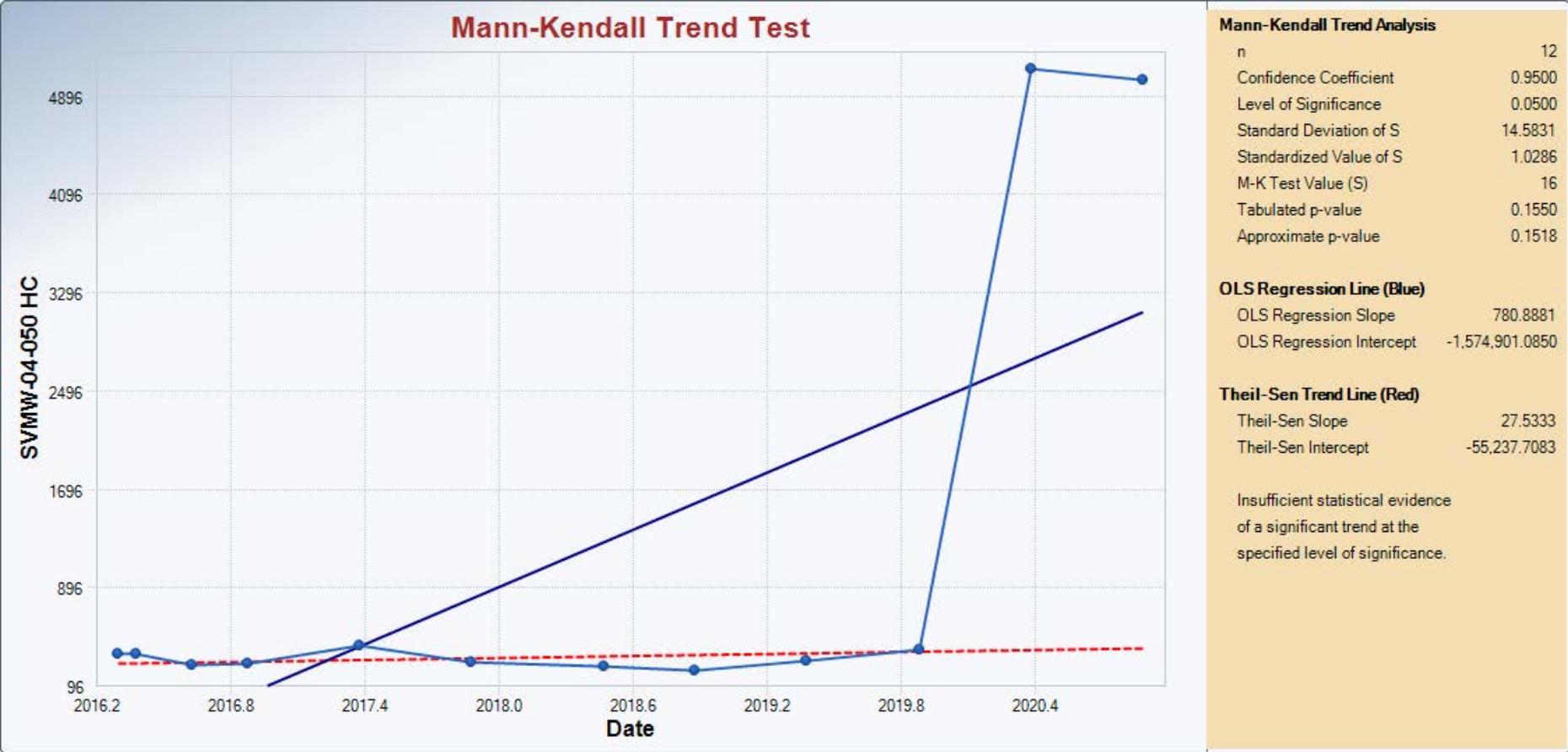


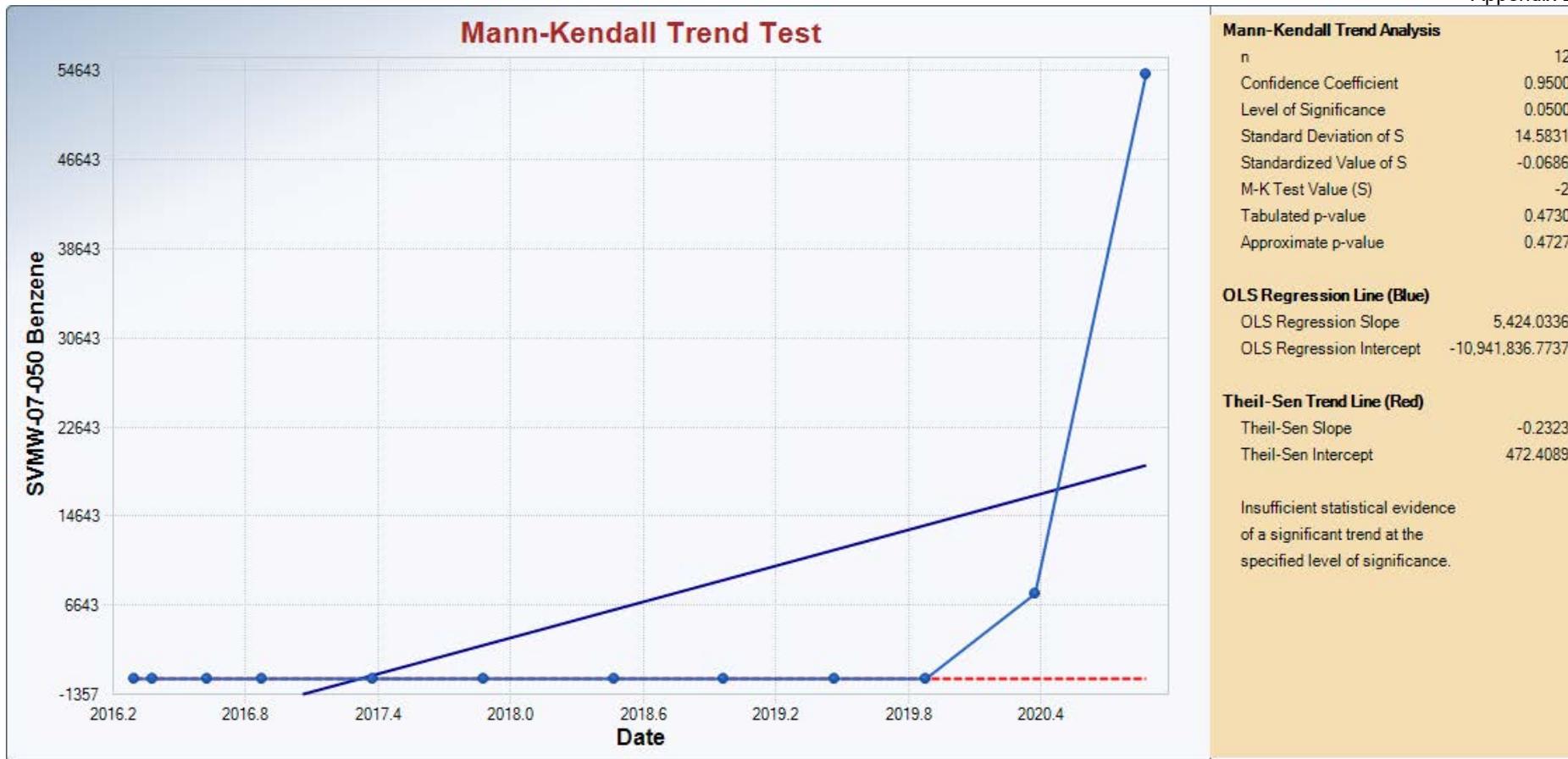


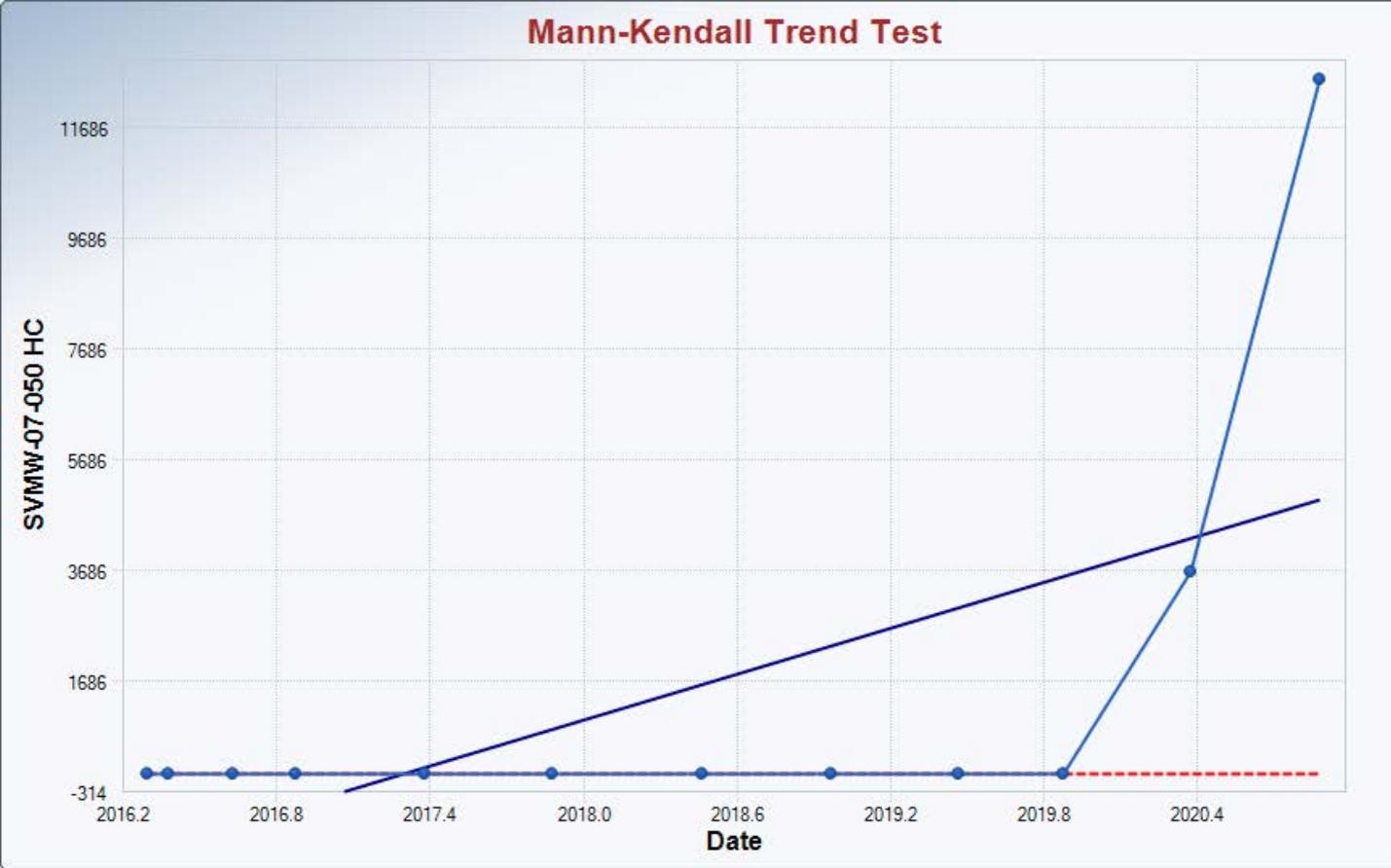




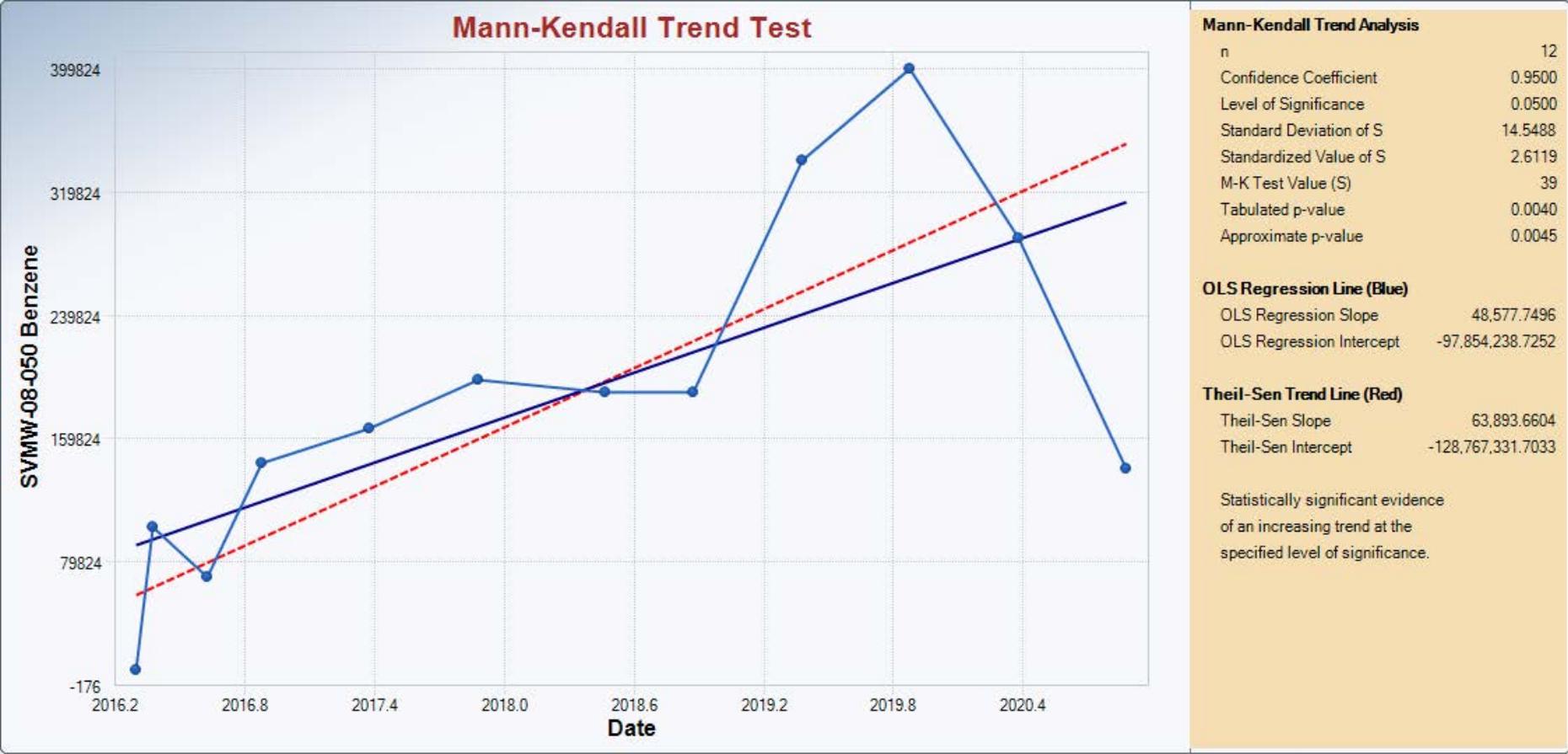


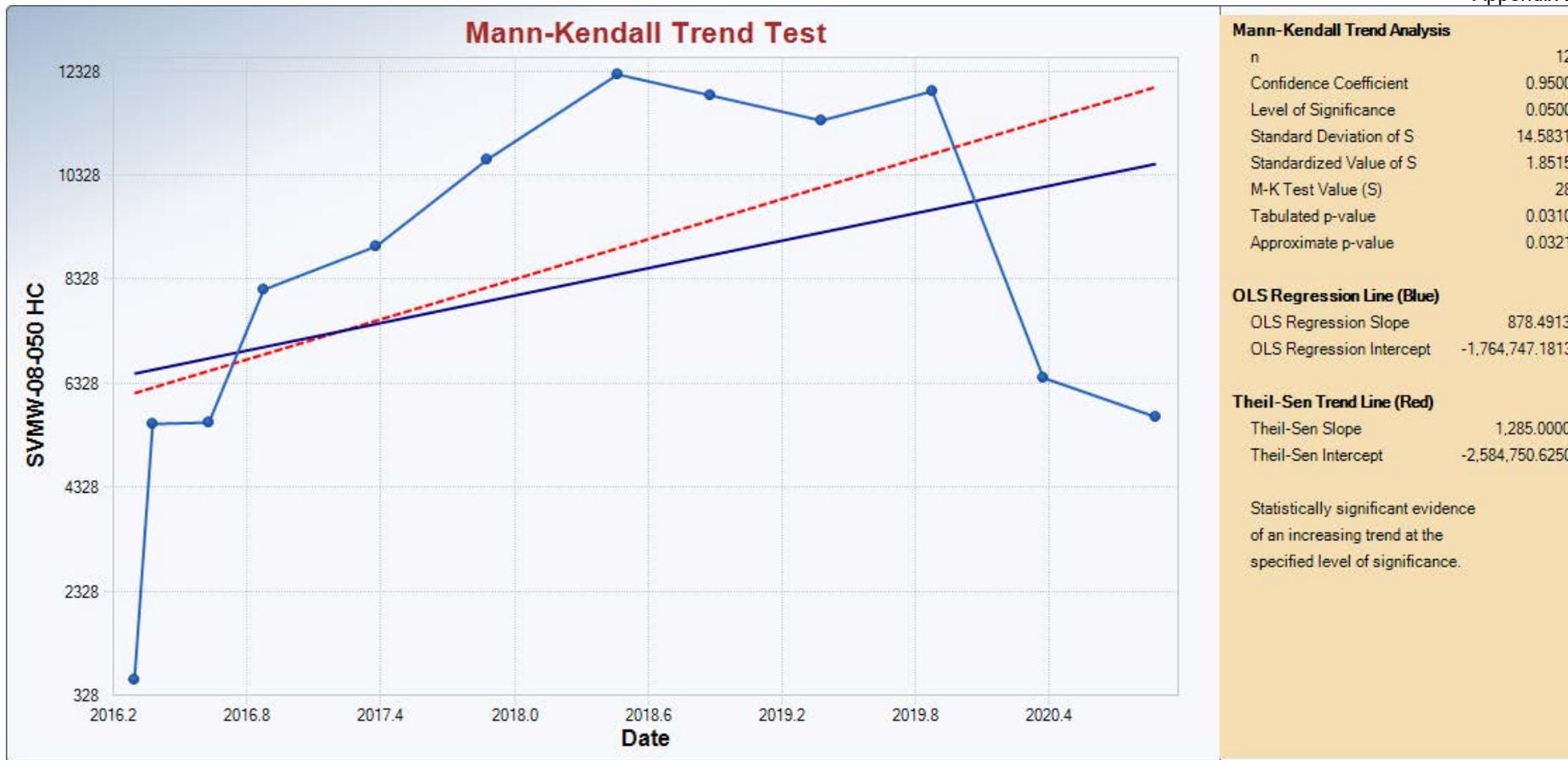


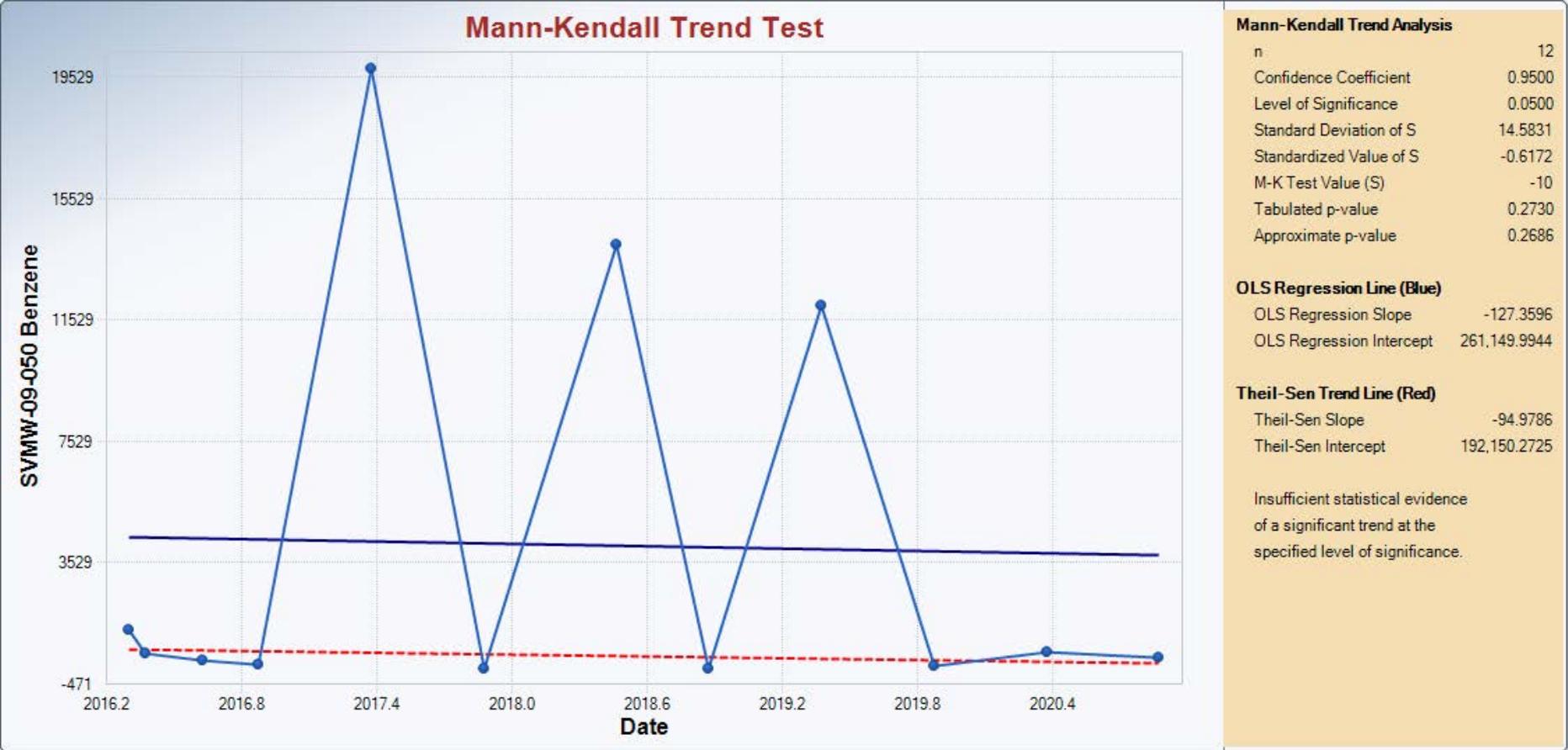


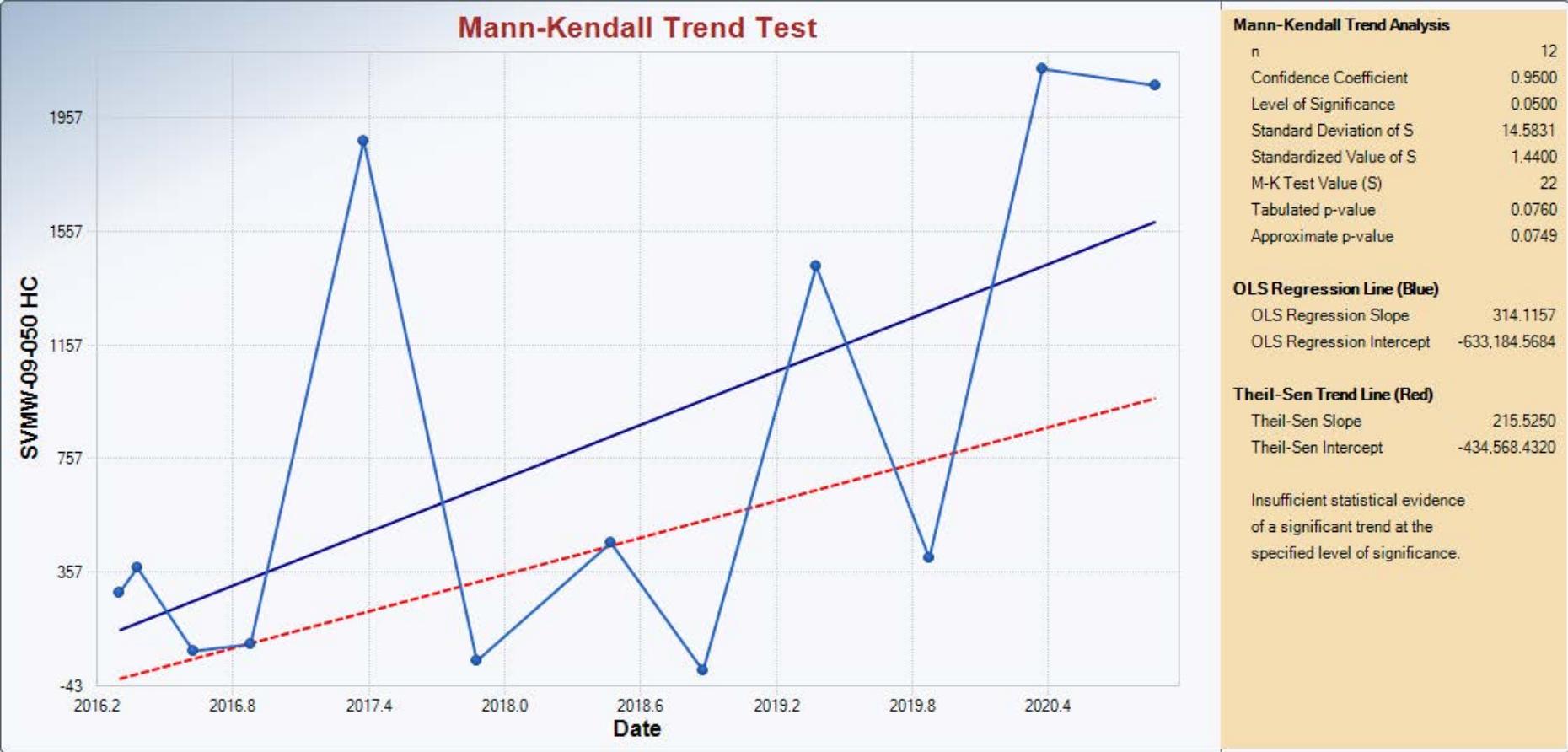


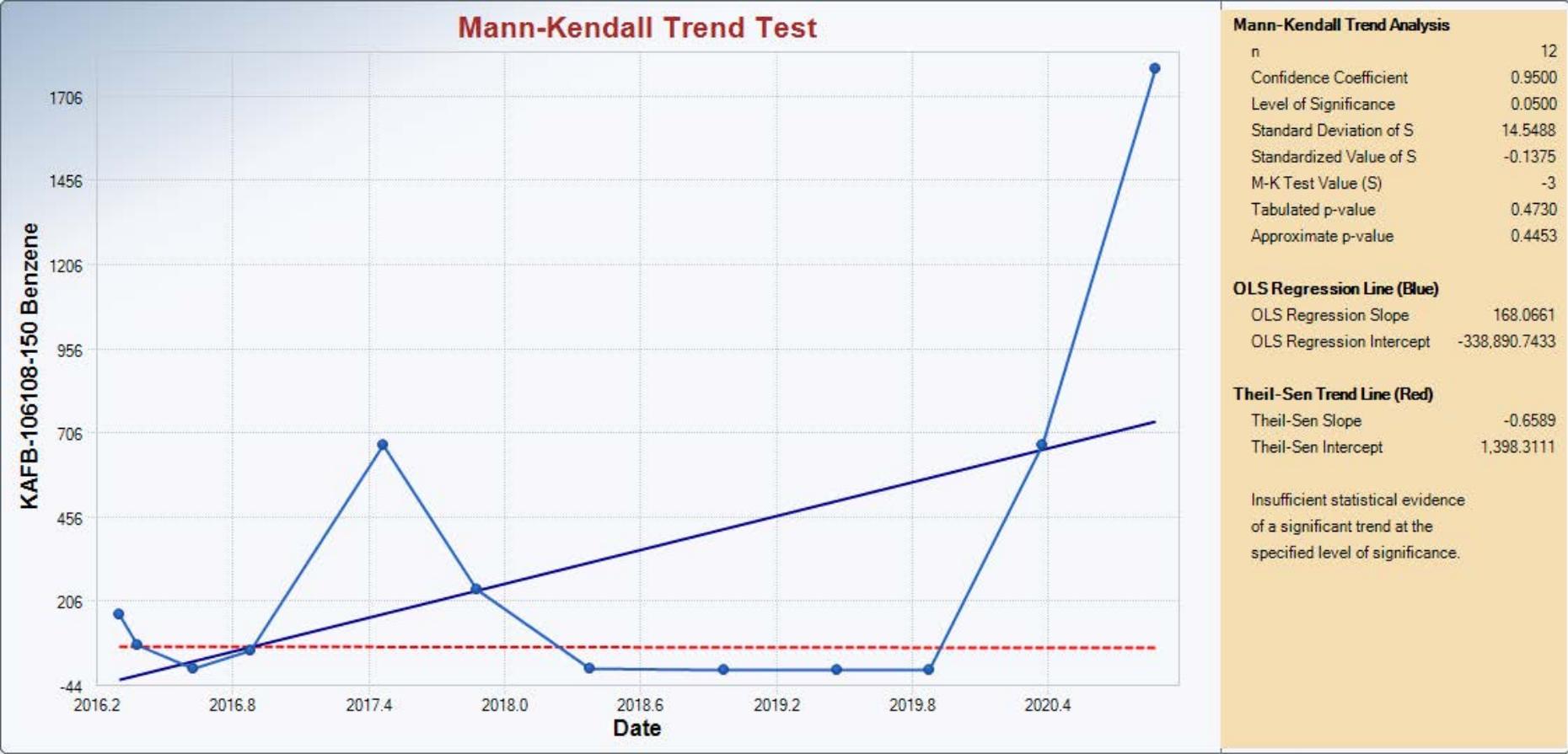
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.2945
Standardized Value of S	0.5597
M-K Test Value (S)	9
Tabulated p-value	0.3190
Approximate p-value	0.2879
OLS Regression Line (Blue)	
OLS Regression Slope	1,390.8271
OLS Regression Intercept	-2,805,672.8436
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.6245
Theil-Sen Intercept	-1,258.3833
Insufficient statistical evidence of a significant trend at the specified level of significance.	

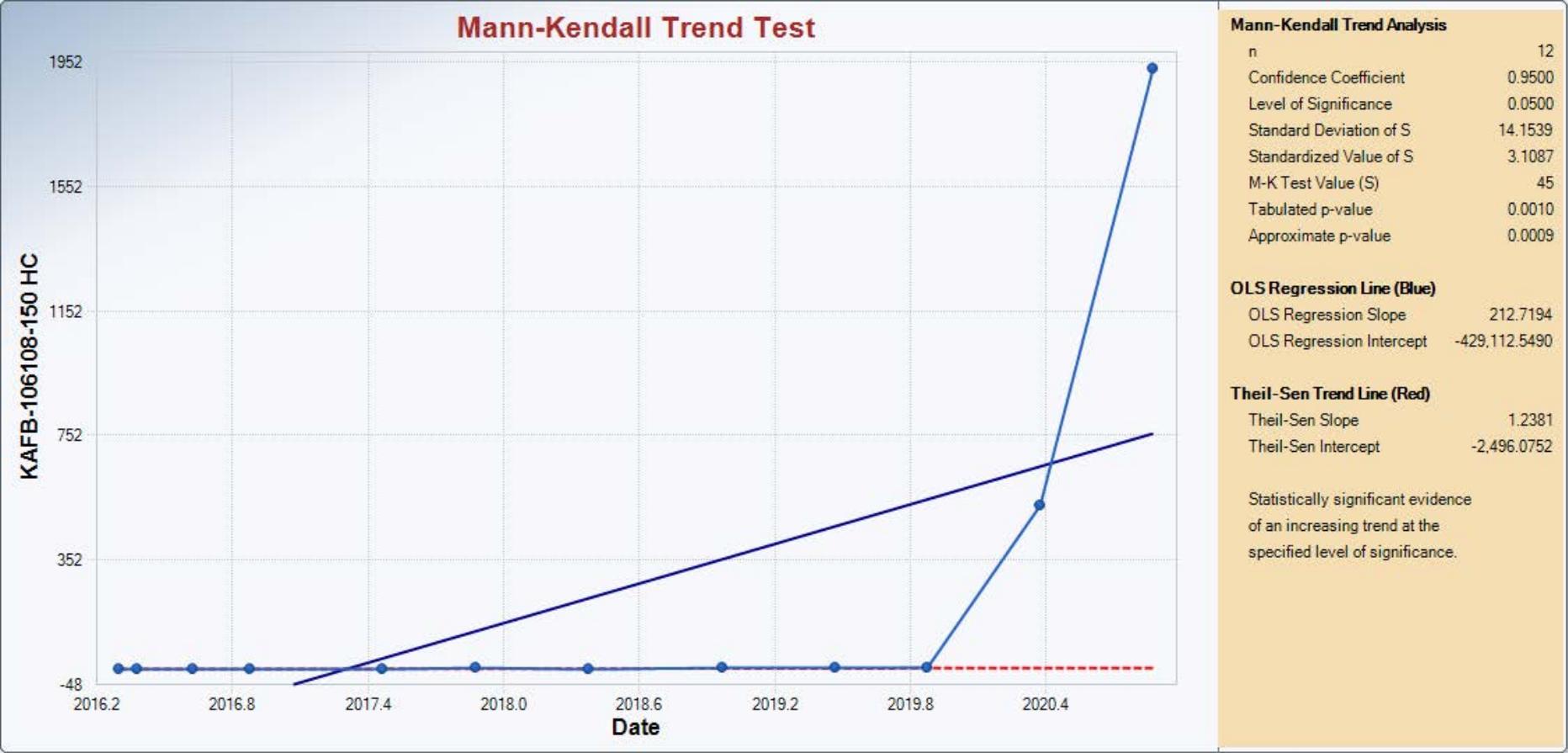


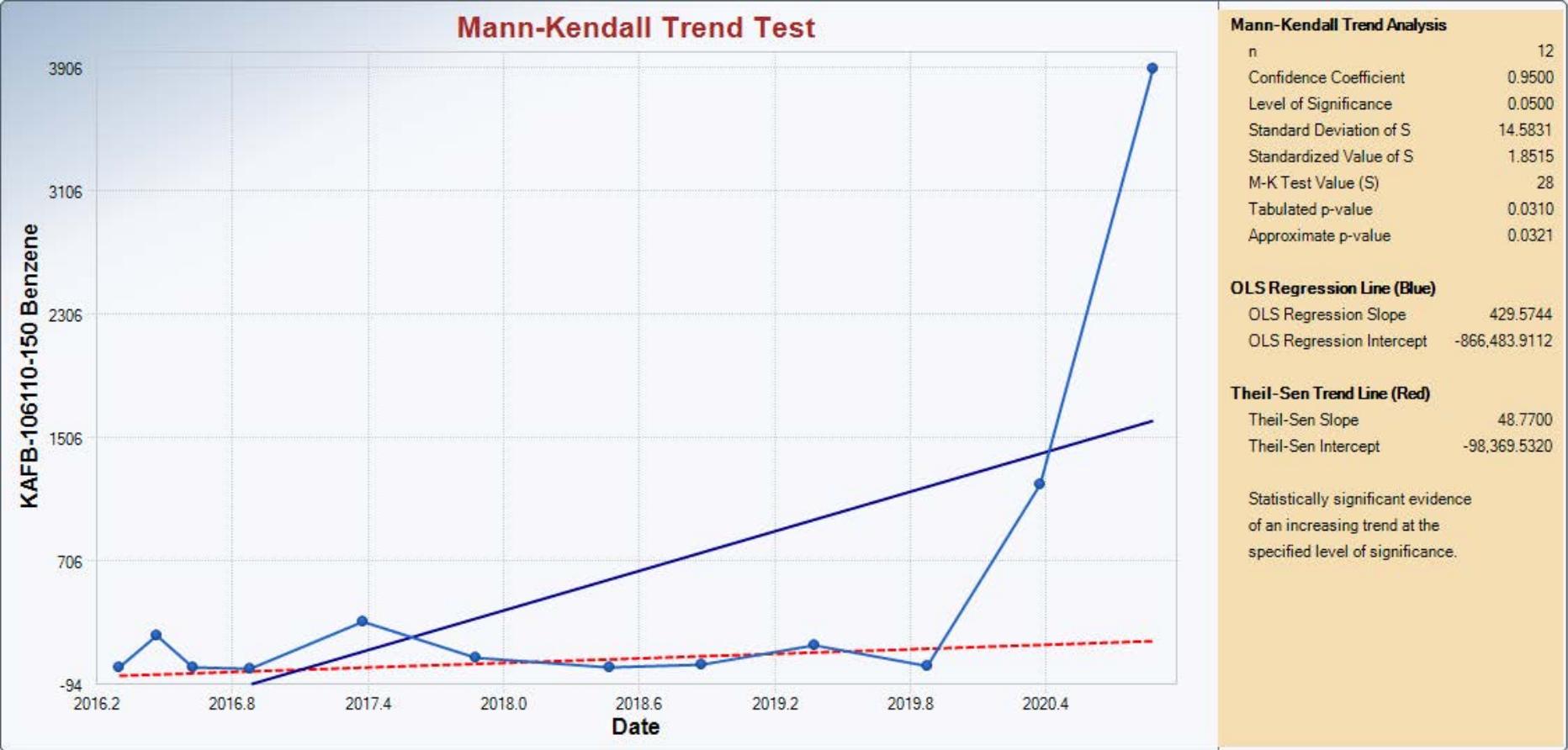


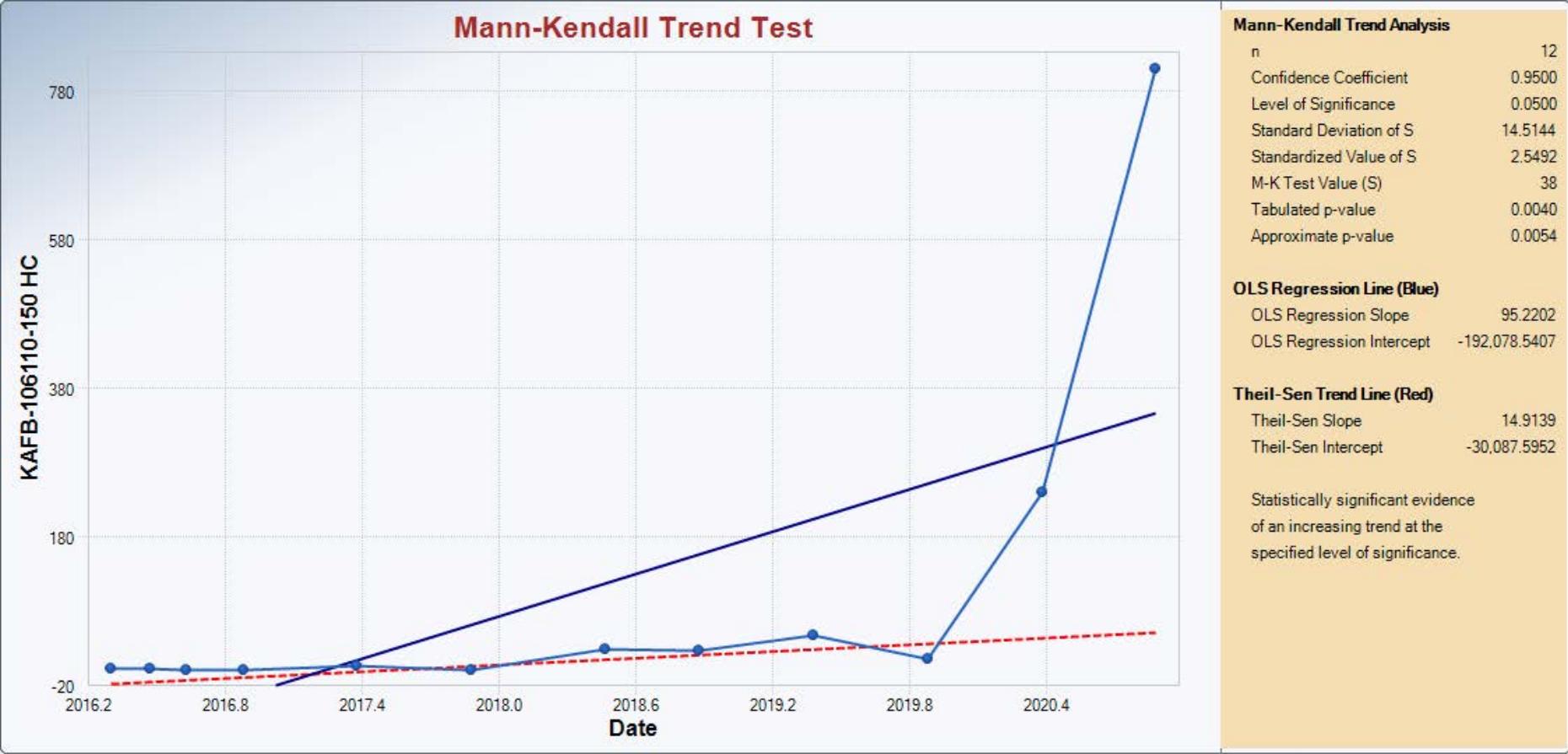


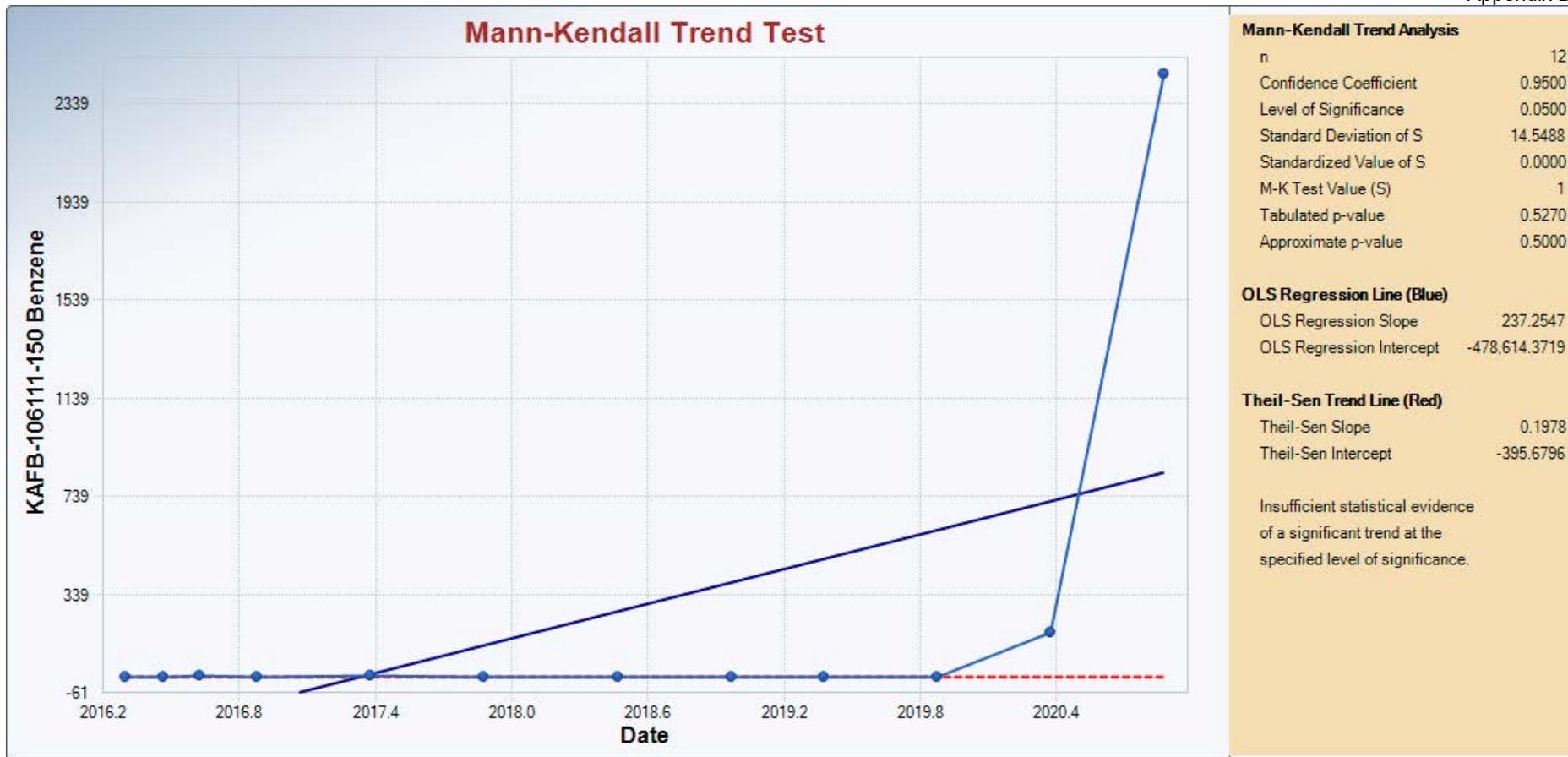


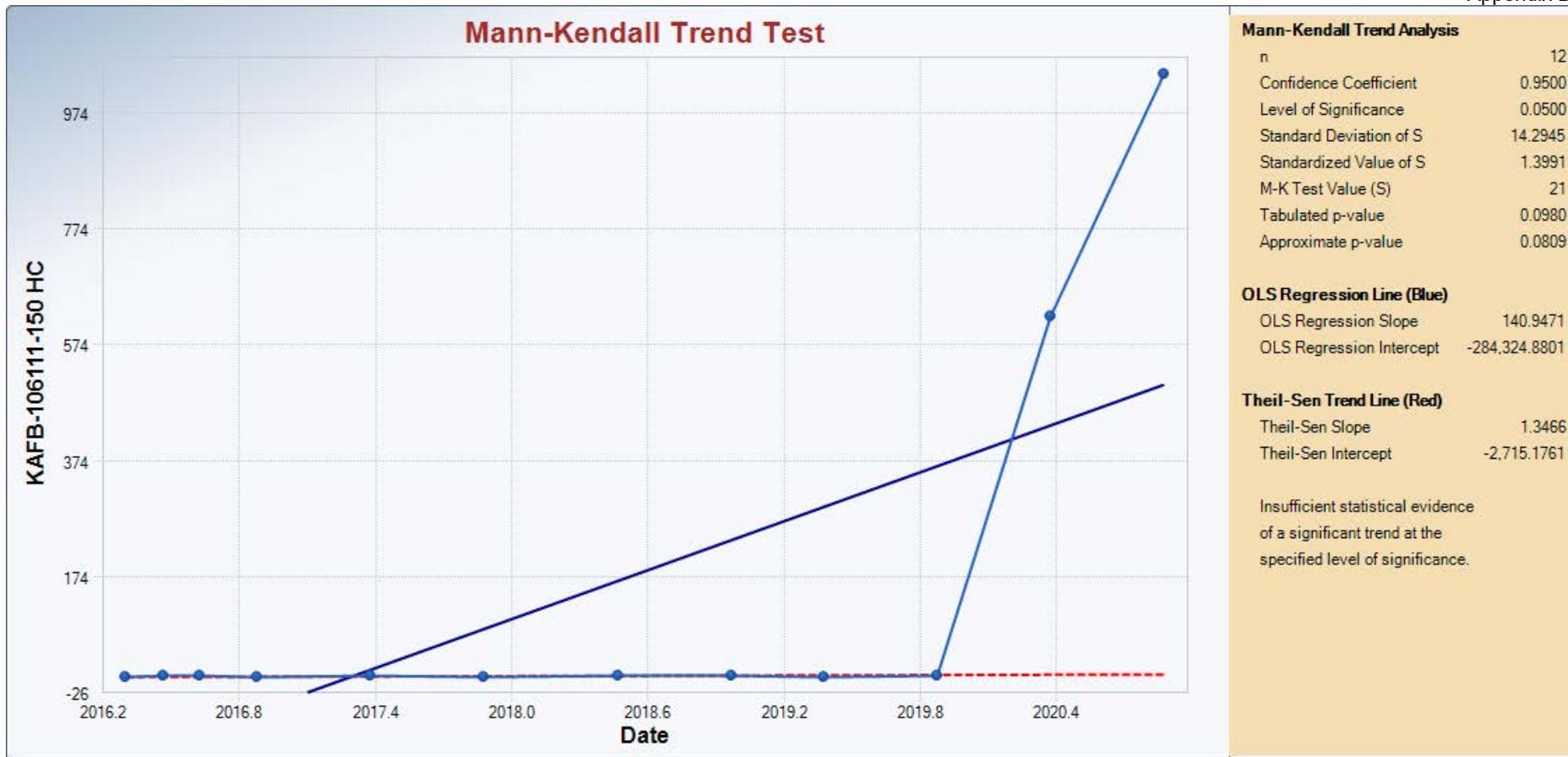


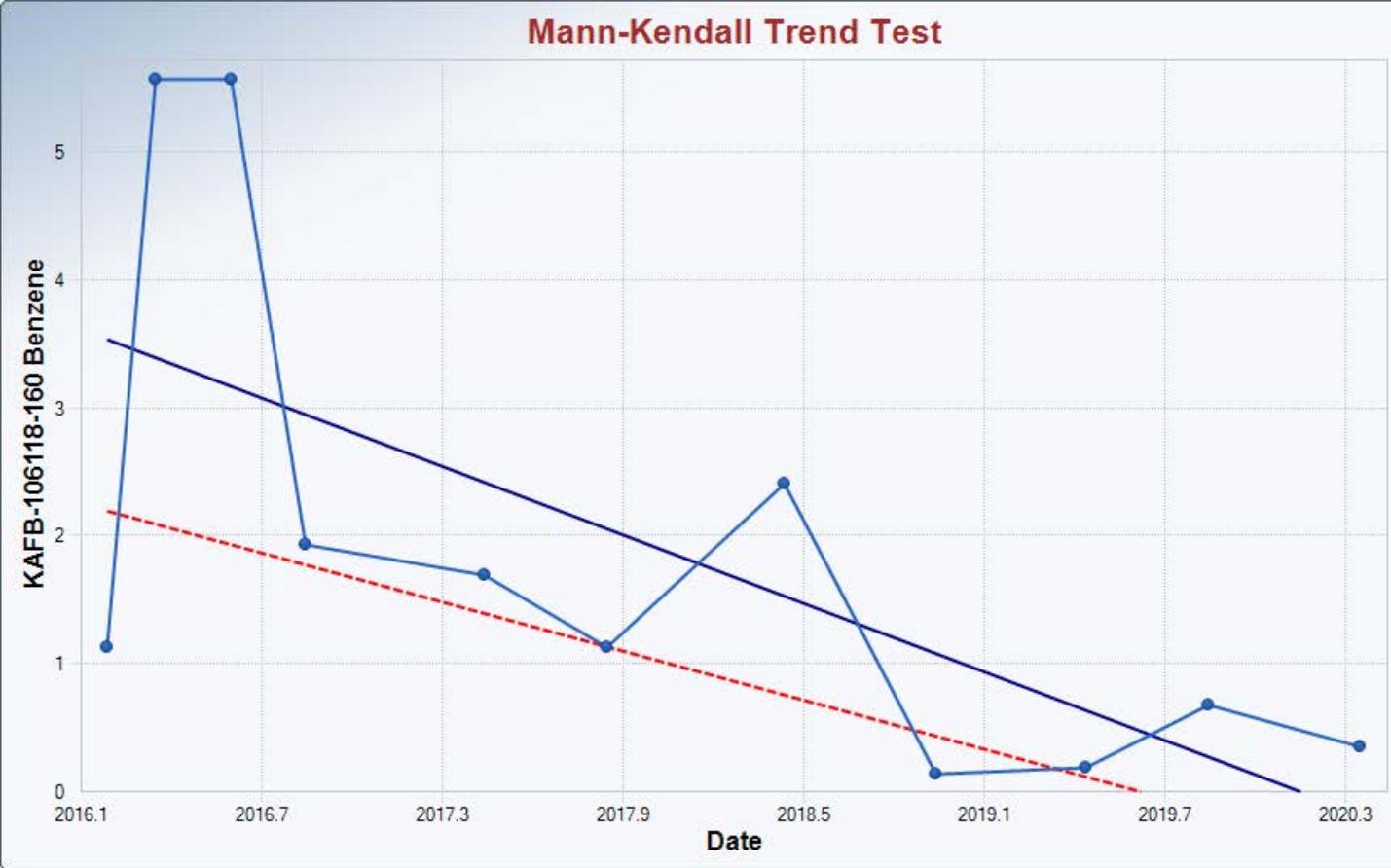












**Mann-Kendall Trend Analysis**

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.7671
Standardized Value of S	-2.0365
M-K Test Value (S)	-27
Tabulated p-value	0.0200
Approximate p-value	0.0209

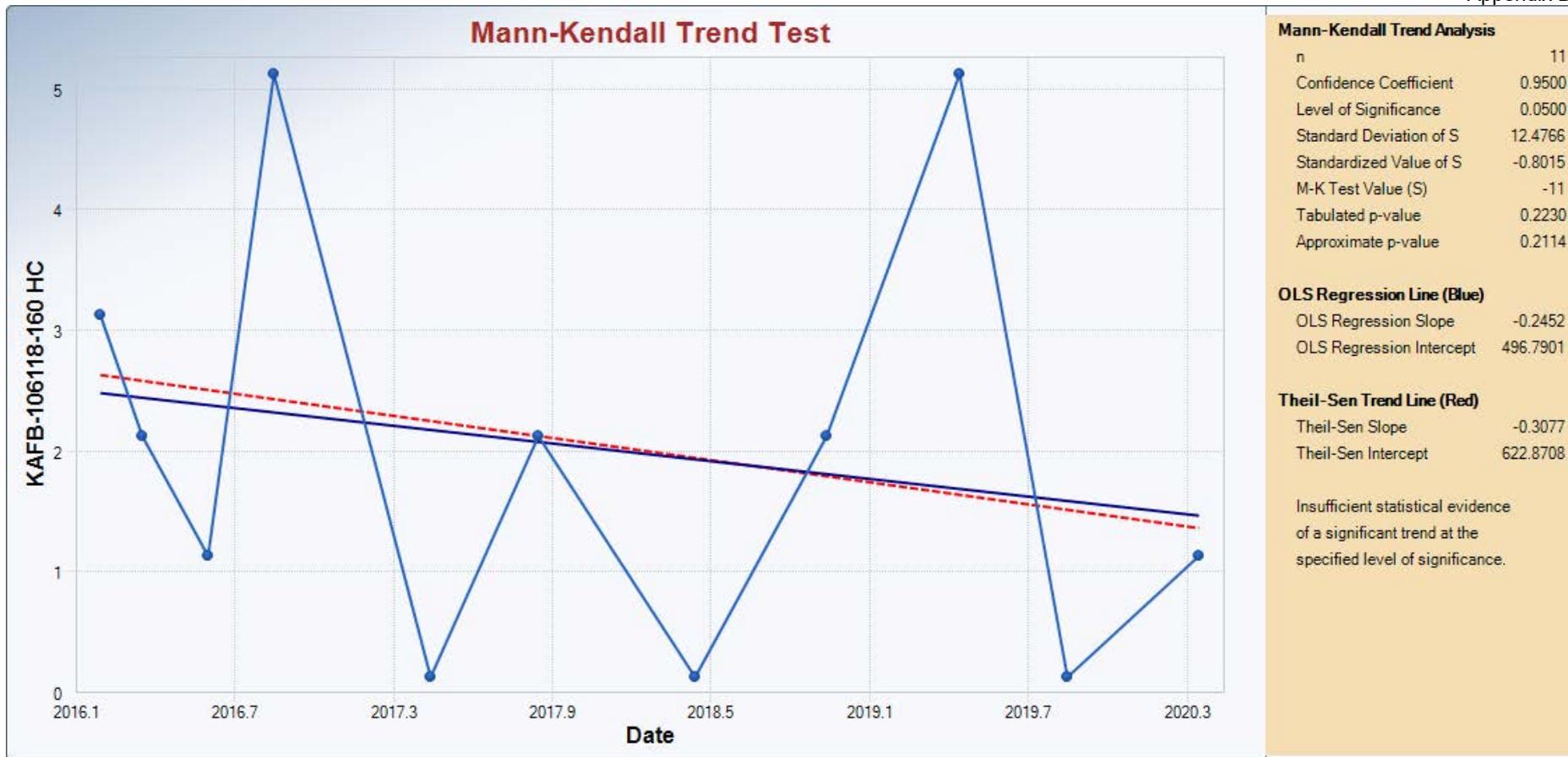
**OLS Regression Line (Blue)**

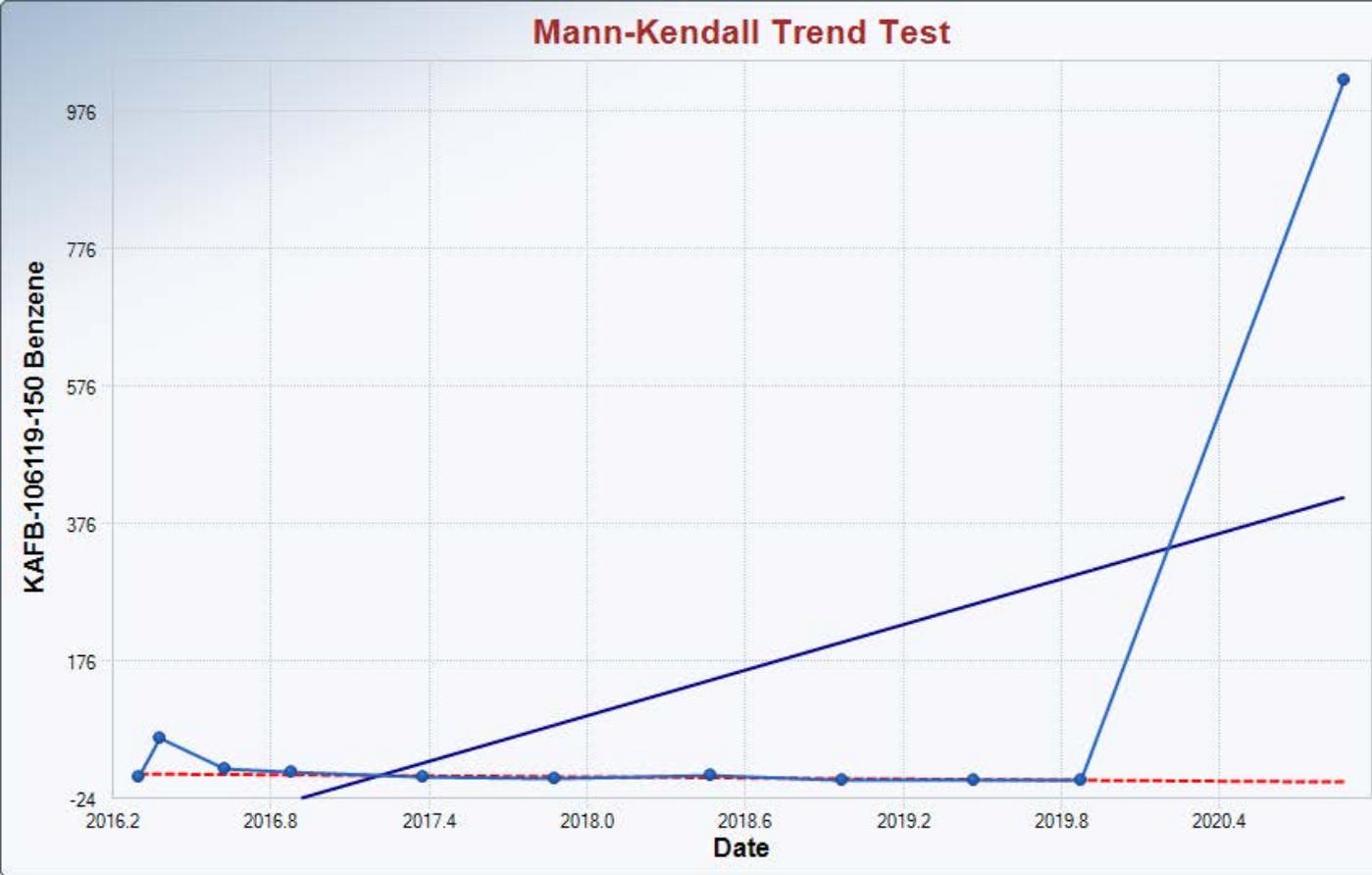
OLS Regression Slope	-0.8926
OLS Regression Intercept	1,803.2658

**Theil-Sen Trend Line (Red)**

Theil-Sen Slope	-0.6400
Theil-Sen Intercept	1,292.7210

Statistically significant evidence of a decreasing trend at the specified level of significance.





**Mann-Kendall Trend Analysis**

n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.8452
Standardized Value of S	-1.5570
M-K Test Value (S)	-21
Tabulated p-value	0.0600
Approximate p-value	0.0597

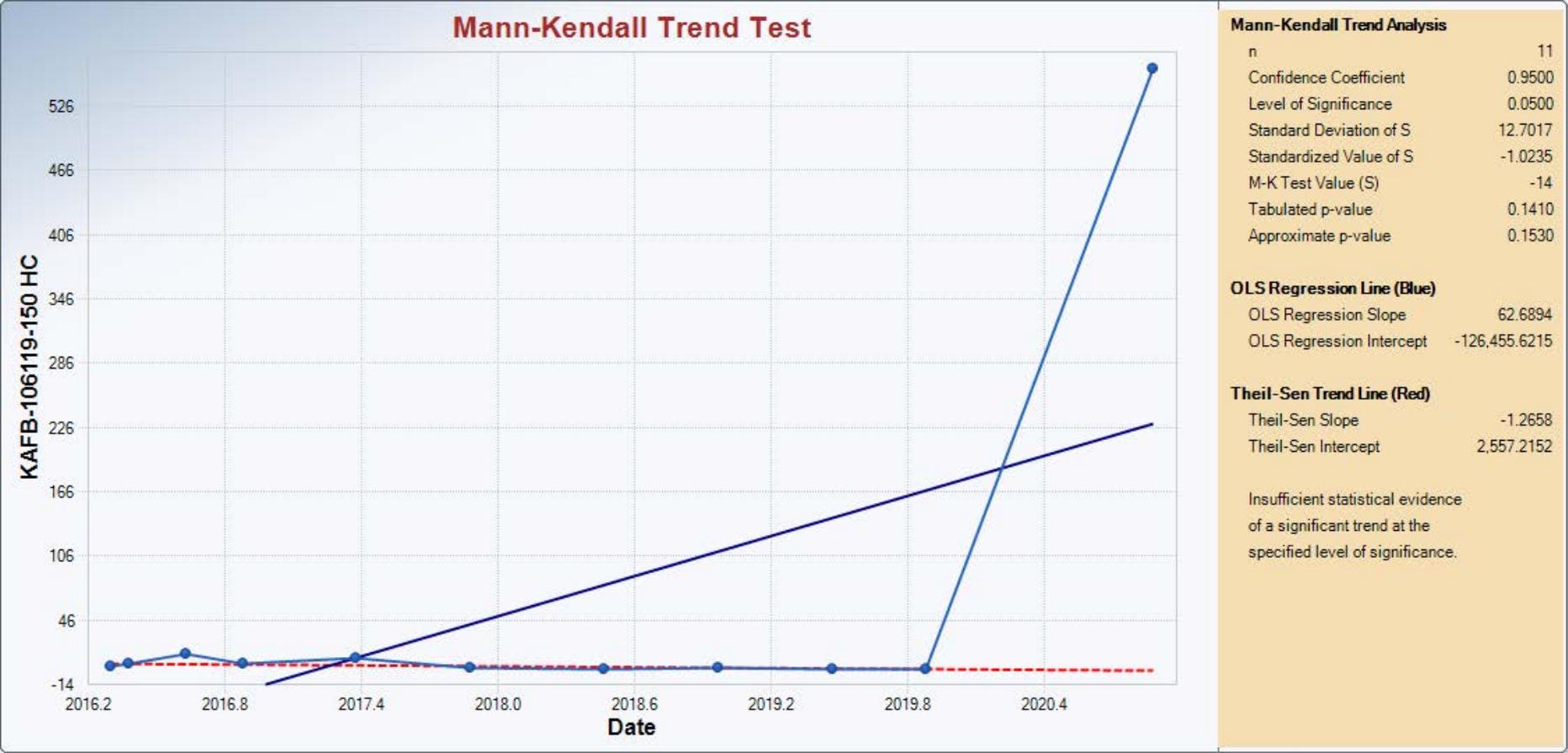
**OLS Regression Line (Blue)**

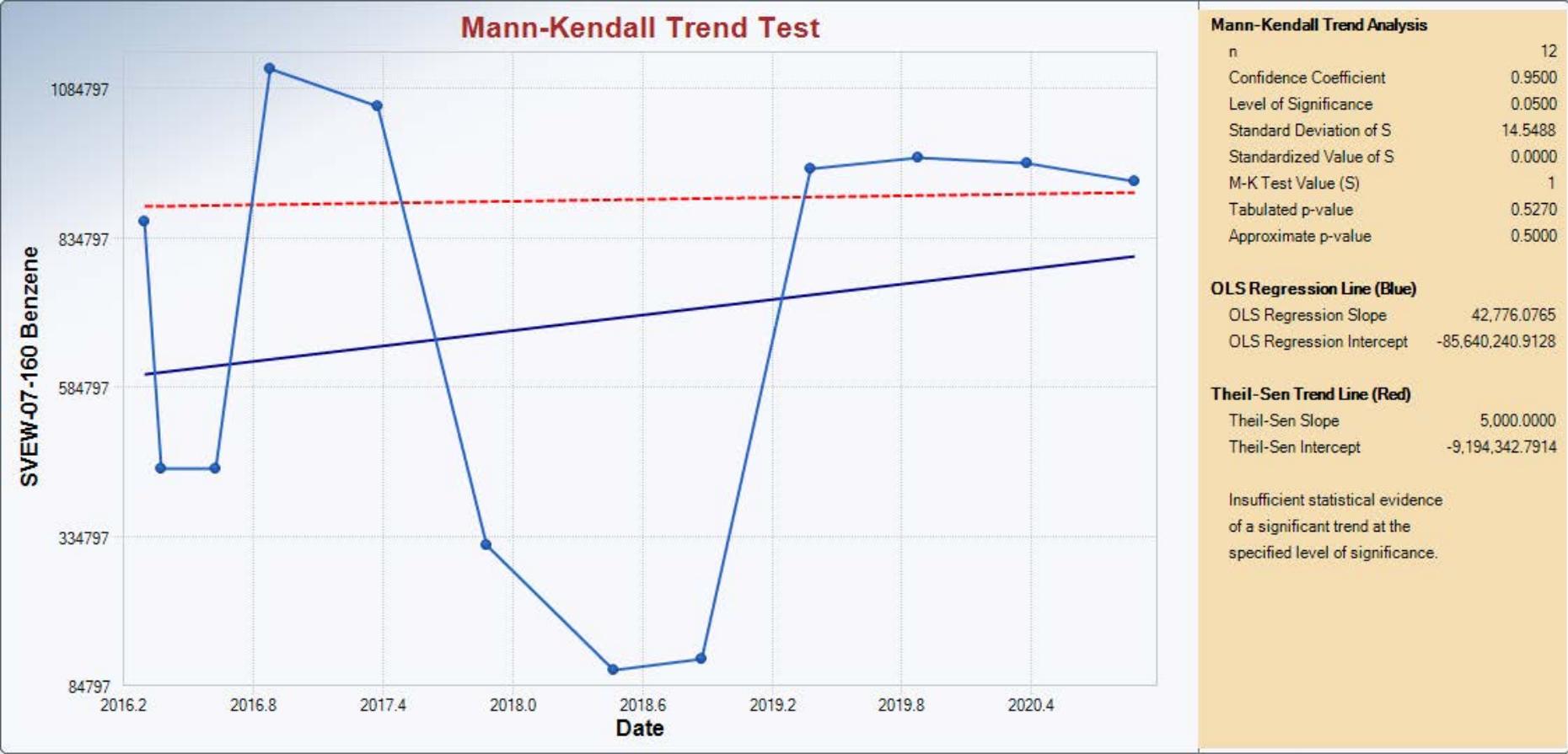
OLS Regression Slope	111.0955
OLS Regression Intercept	-224,091.5927

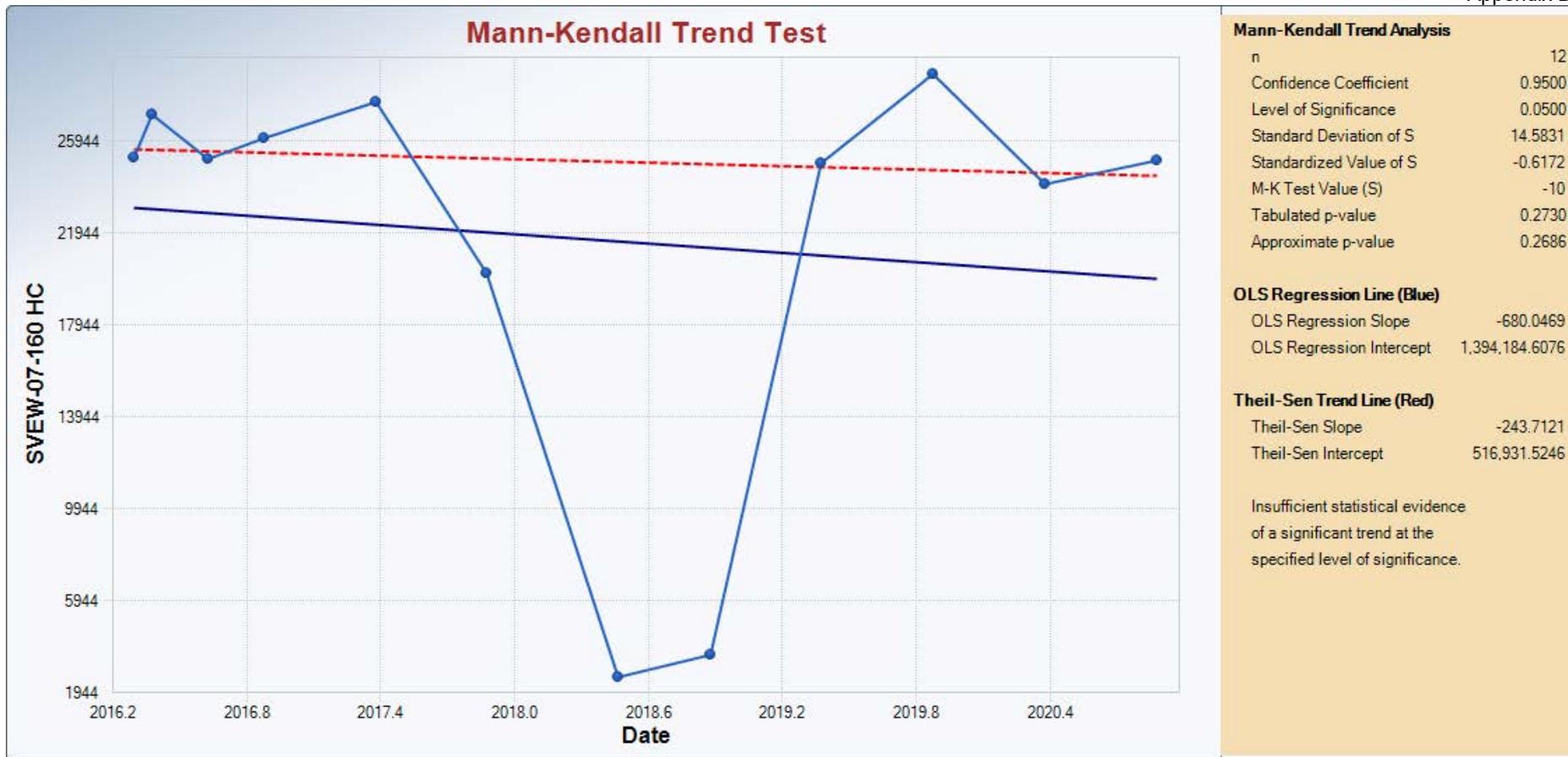
**Theil-Sen Trend Line (Red)**

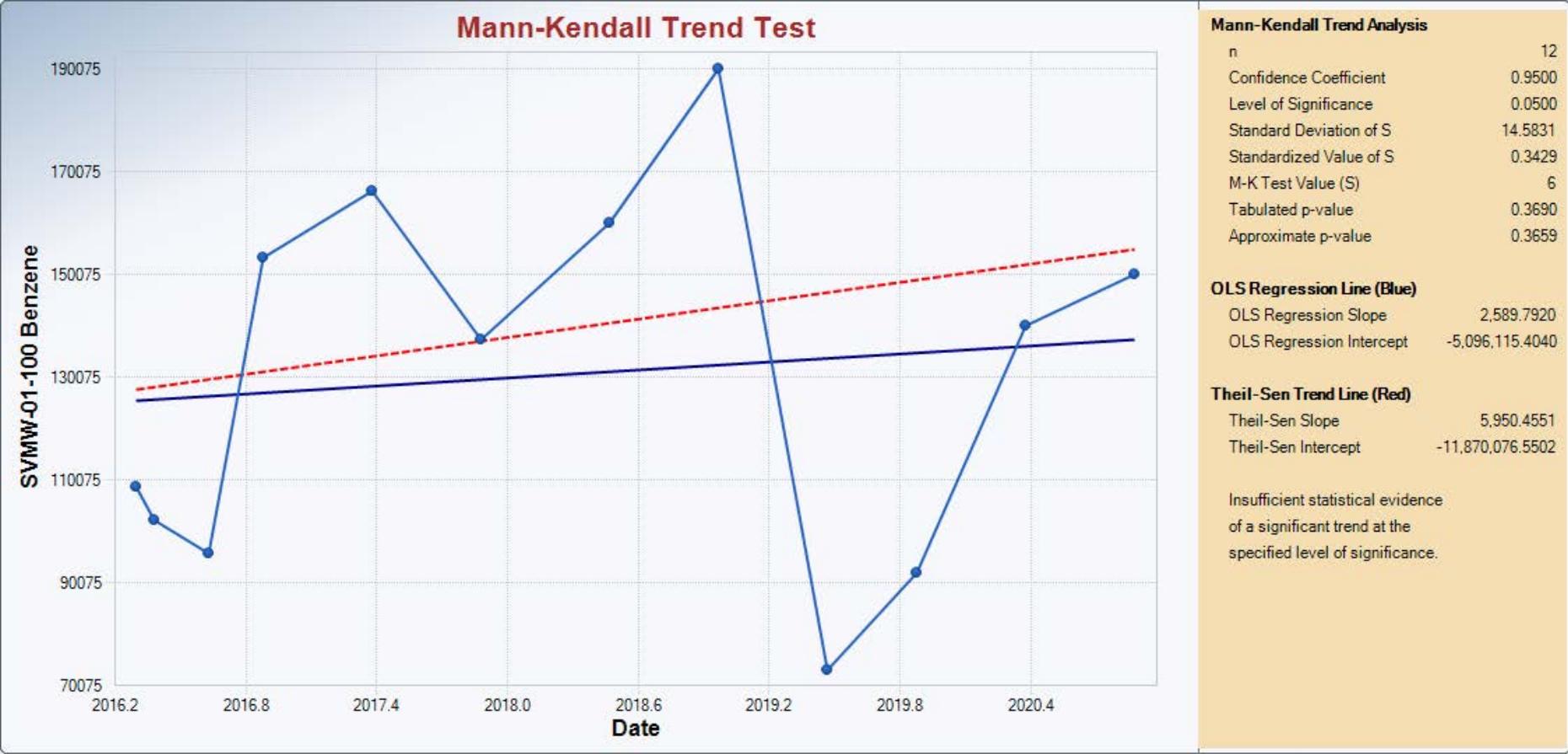
Theil-Sen Slope	-2.3640
Theil-Sen Intercept	4,777.8201

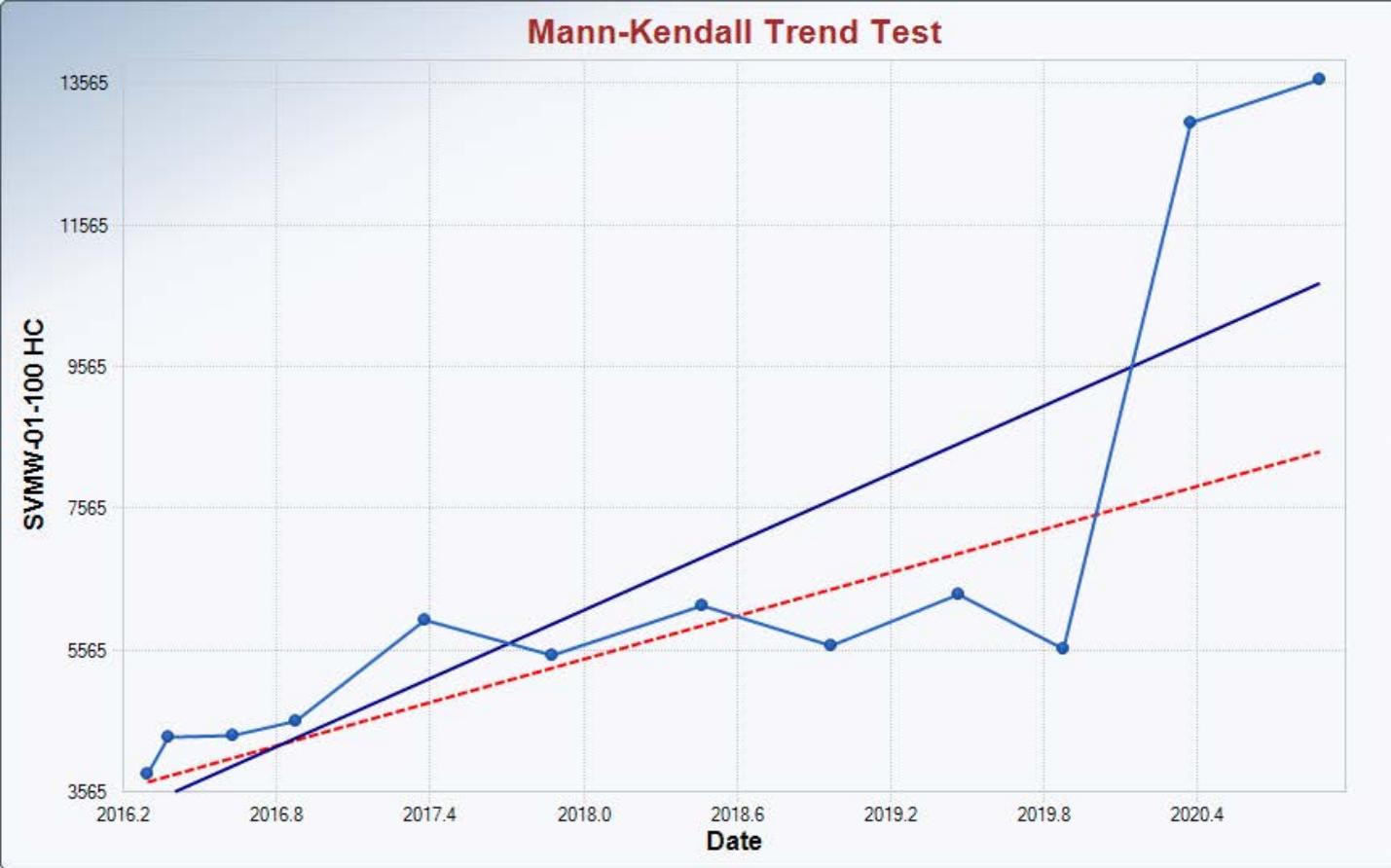
Insufficient statistical evidence of a significant trend at the specified level of significance.



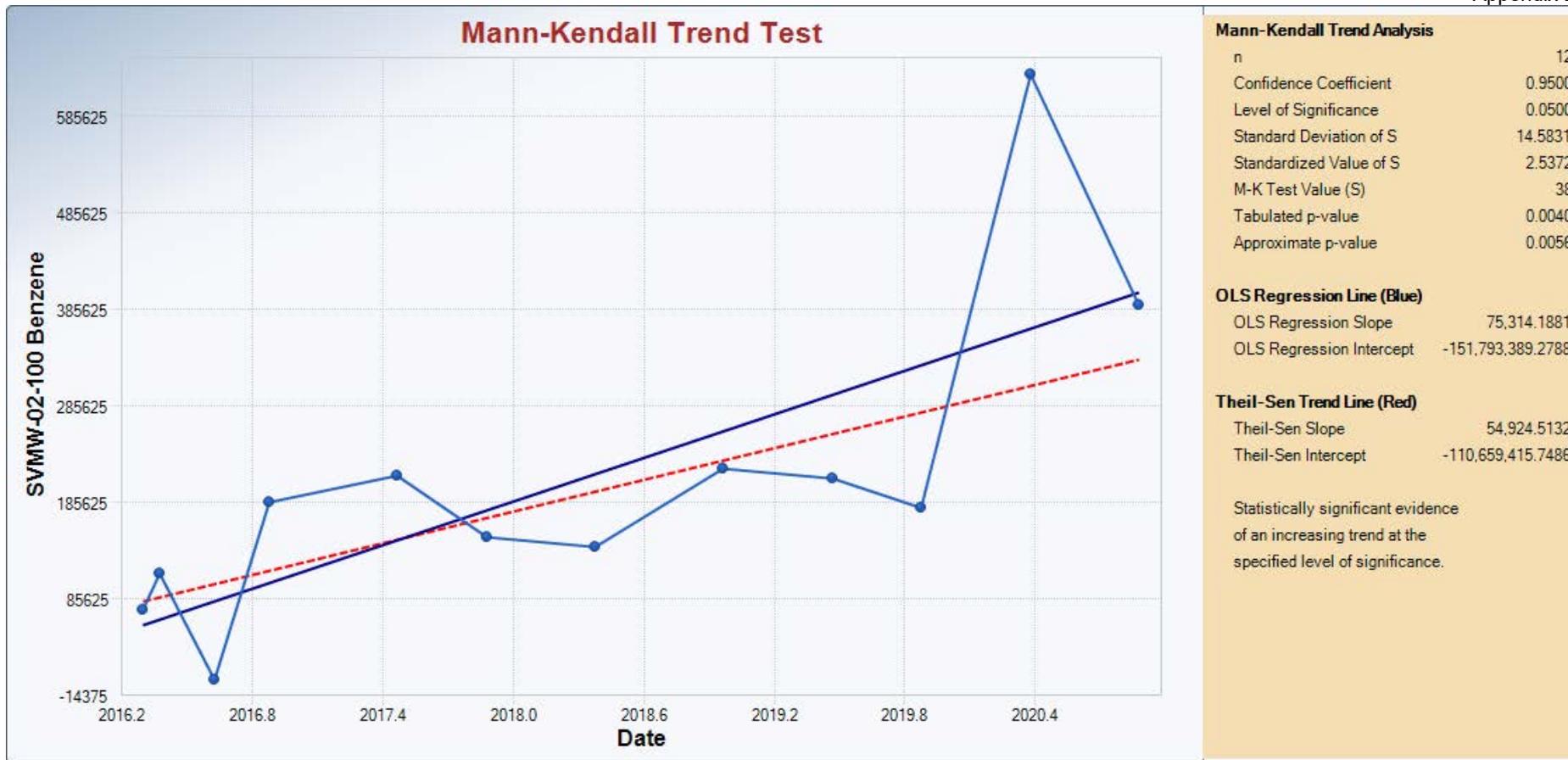


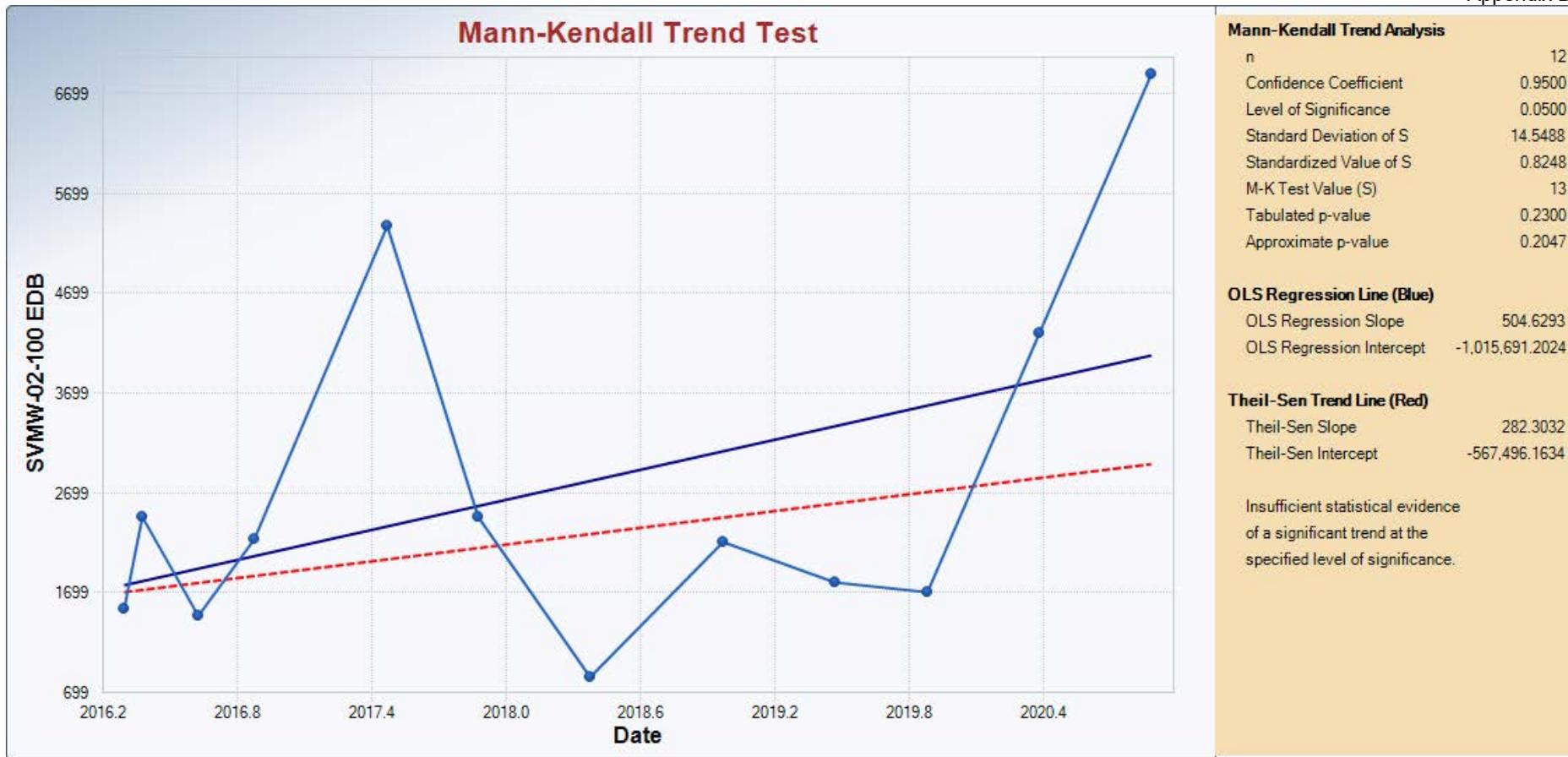






Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	3.4972
M-K Test Value (S)	52
Tabulated p-value	0.0000
Approximate p-value	0.0002
OLS Regression Line (Blue)	
OLS Regression Slope	1,610.8078
OLS Regression Intercept	-3,244,424.4939
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	1,018.8679
Theil-Sen Intercept	-2,050,592.8302
Statistically significant evidence of an increasing trend at the specified level of significance.	





### Mann-Kendall Trend Test



**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	3.7715
M-K Test Value (S)	56
Tabulated p-value	0.0000
Approximate p-value	0.0001

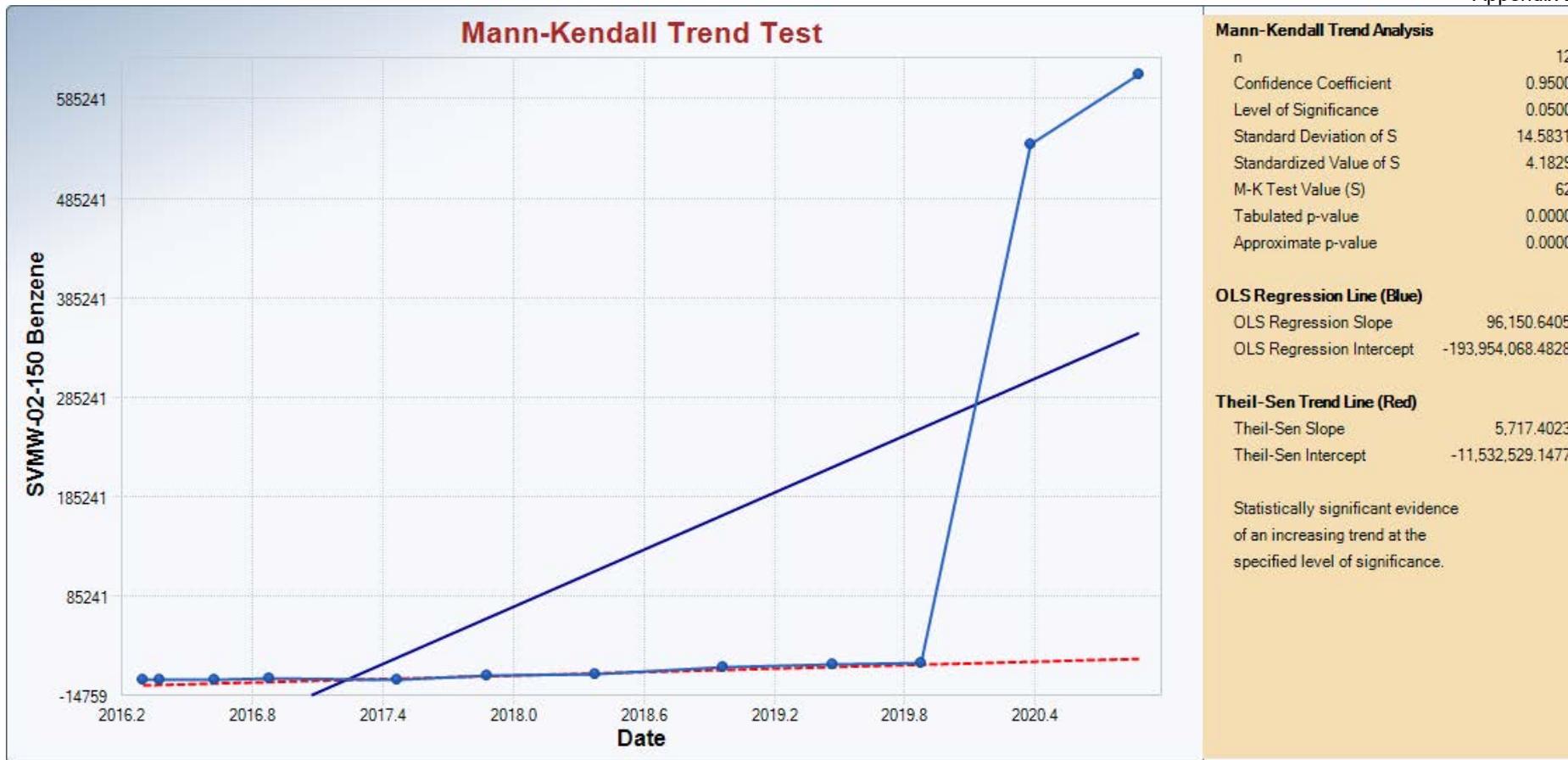
**OLS Regression Line (Blue)**

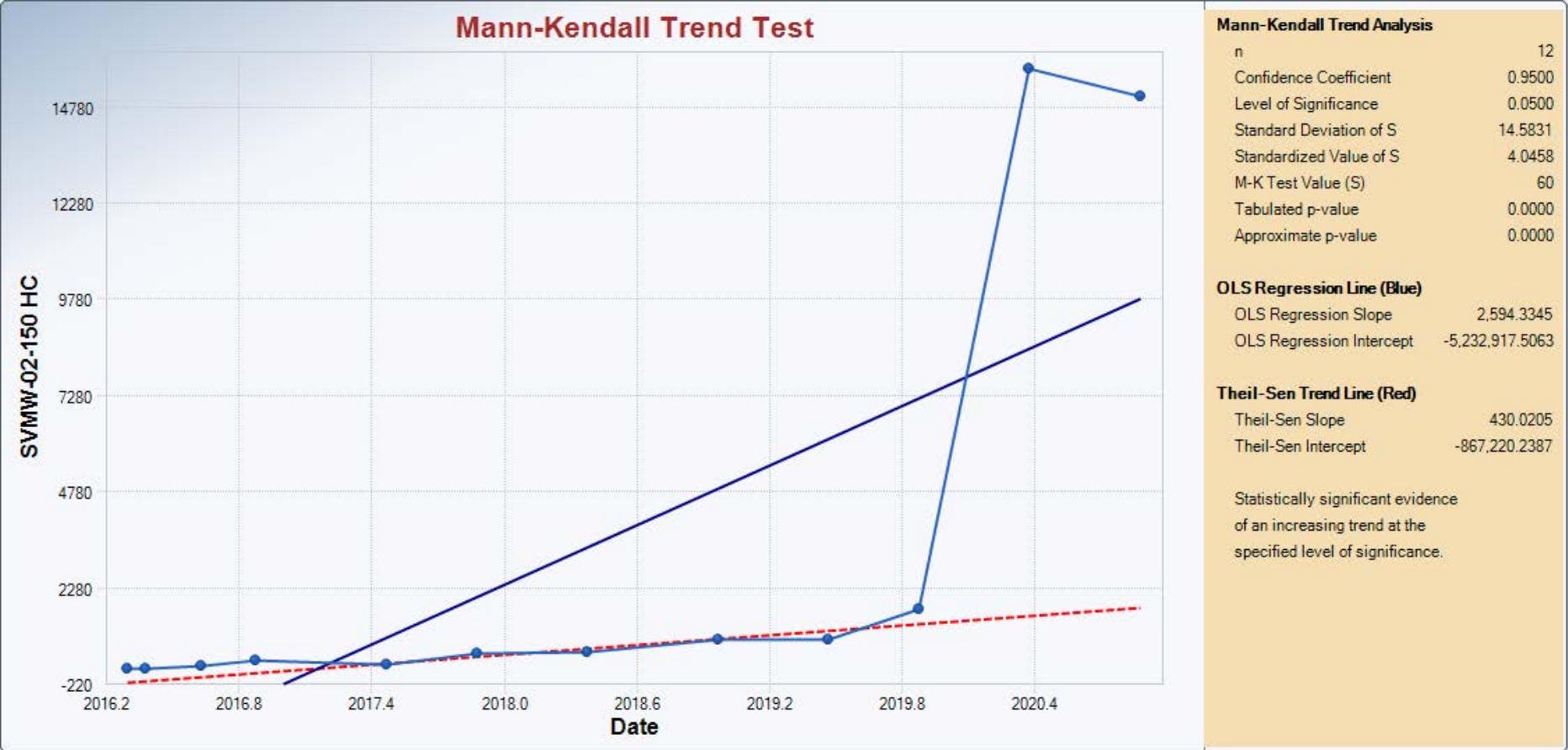
OLS Regression Slope	3,681.5746
OLS Regression Intercept	-7,418,668.9697

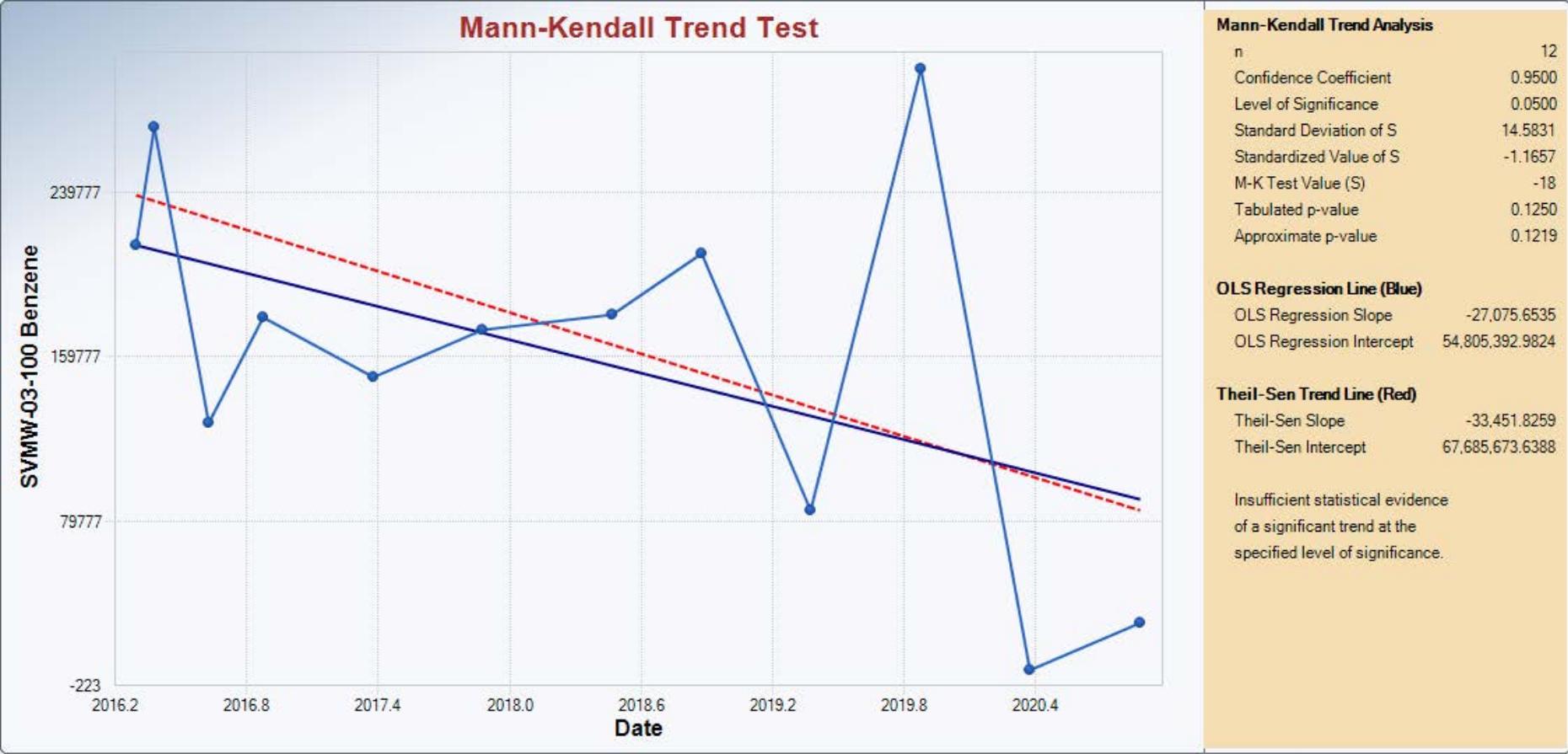
**Theil-Sen Trend Line (Red)**

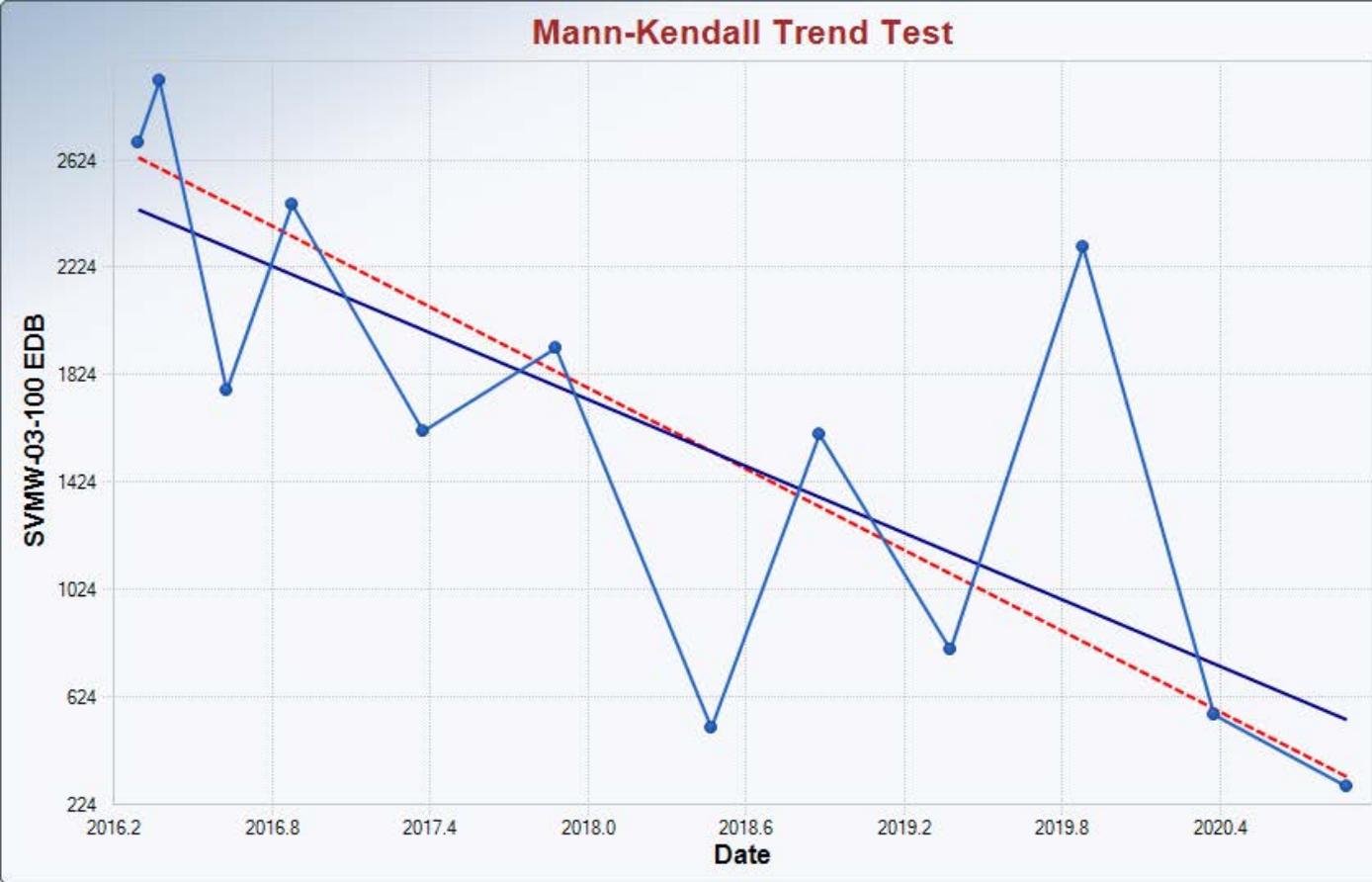
Theil-Sen Slope	3,431.7249
Theil-Sen Intercept	-6,914,020.3677

Statistically significant evidence of an increasing trend at the specified level of significance.









**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-2.6743
M-K Test Value (S)	-40
Tabulated p-value	0.0030
Approximate p-value	0.0037

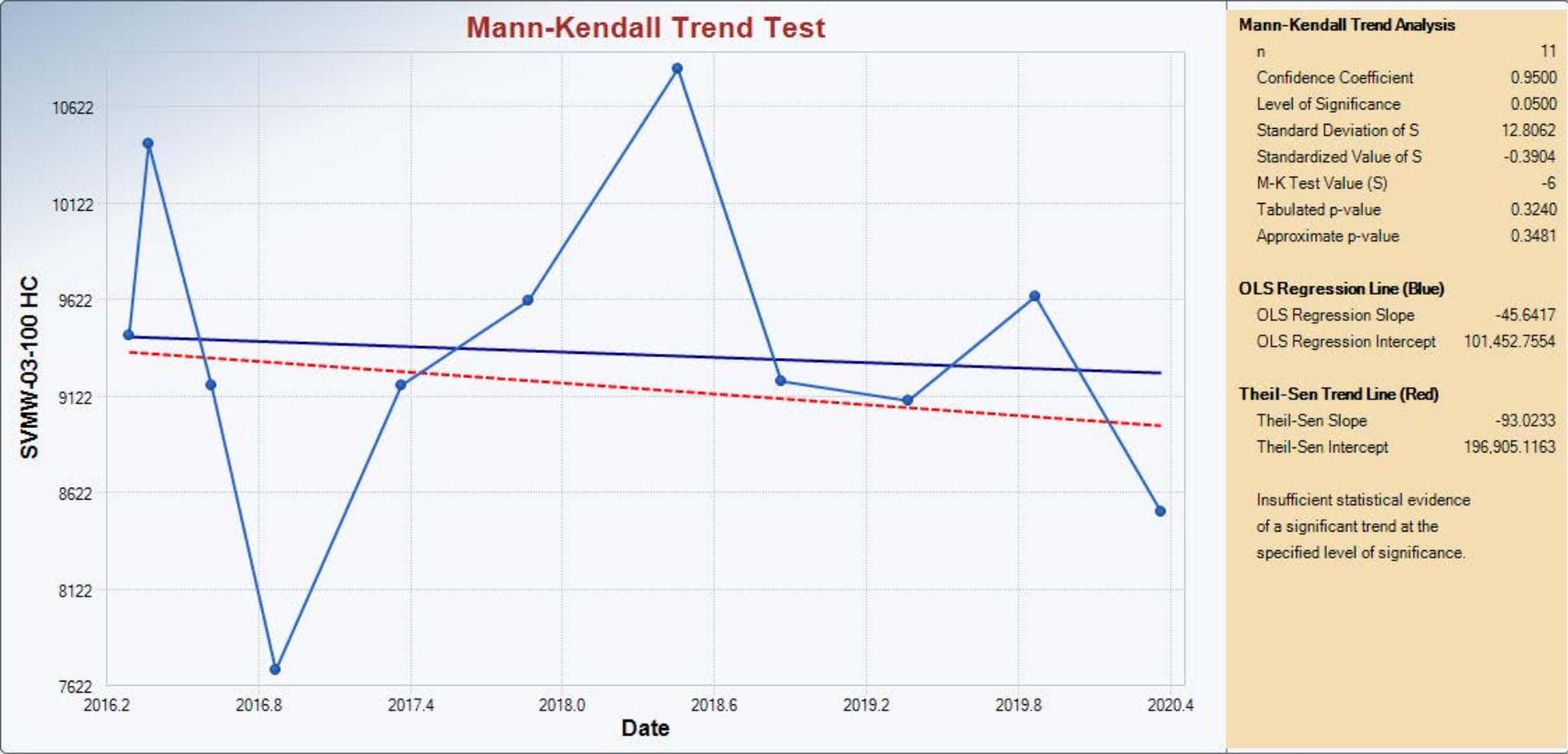
**OLS Regression Line (Blue)**

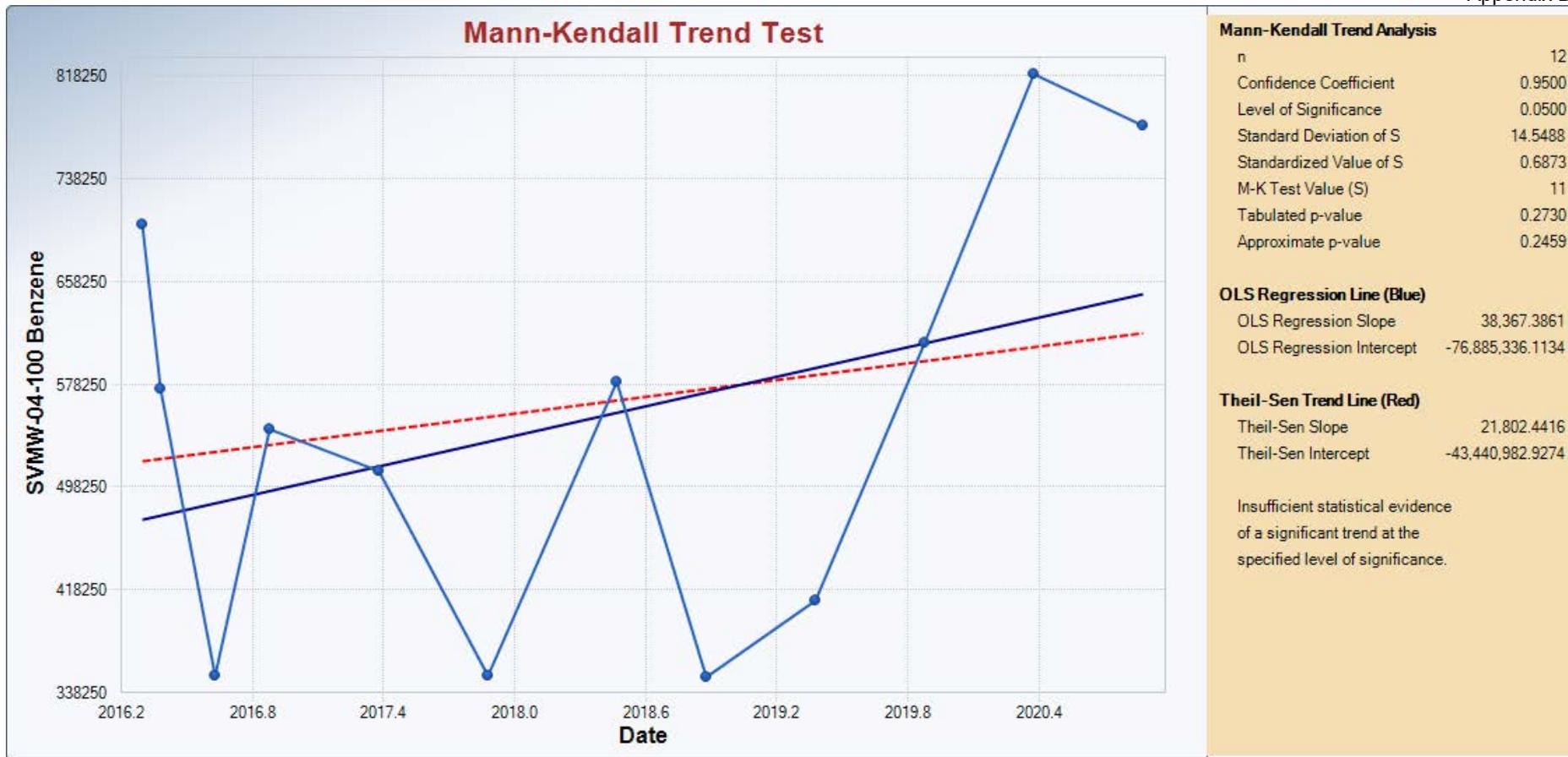
OLS Regression Slope	-415.1995
OLS Regression Intercept	839,585.9259

**Theil-Sen Trend Line (Red)**

Theil-Sen Slope	-504.1393
Theil-Sen Intercept	1,019,106.7425

Statistically significant evidence of a decreasing trend at the specified level of significance.





### Mann-Kendall Trend Test



#### Mann-Kendall Trend Analysis

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	1.9886
M-K Test Value (S)	30
Tabulated p-value	0.0220
Approximate p-value	0.0234

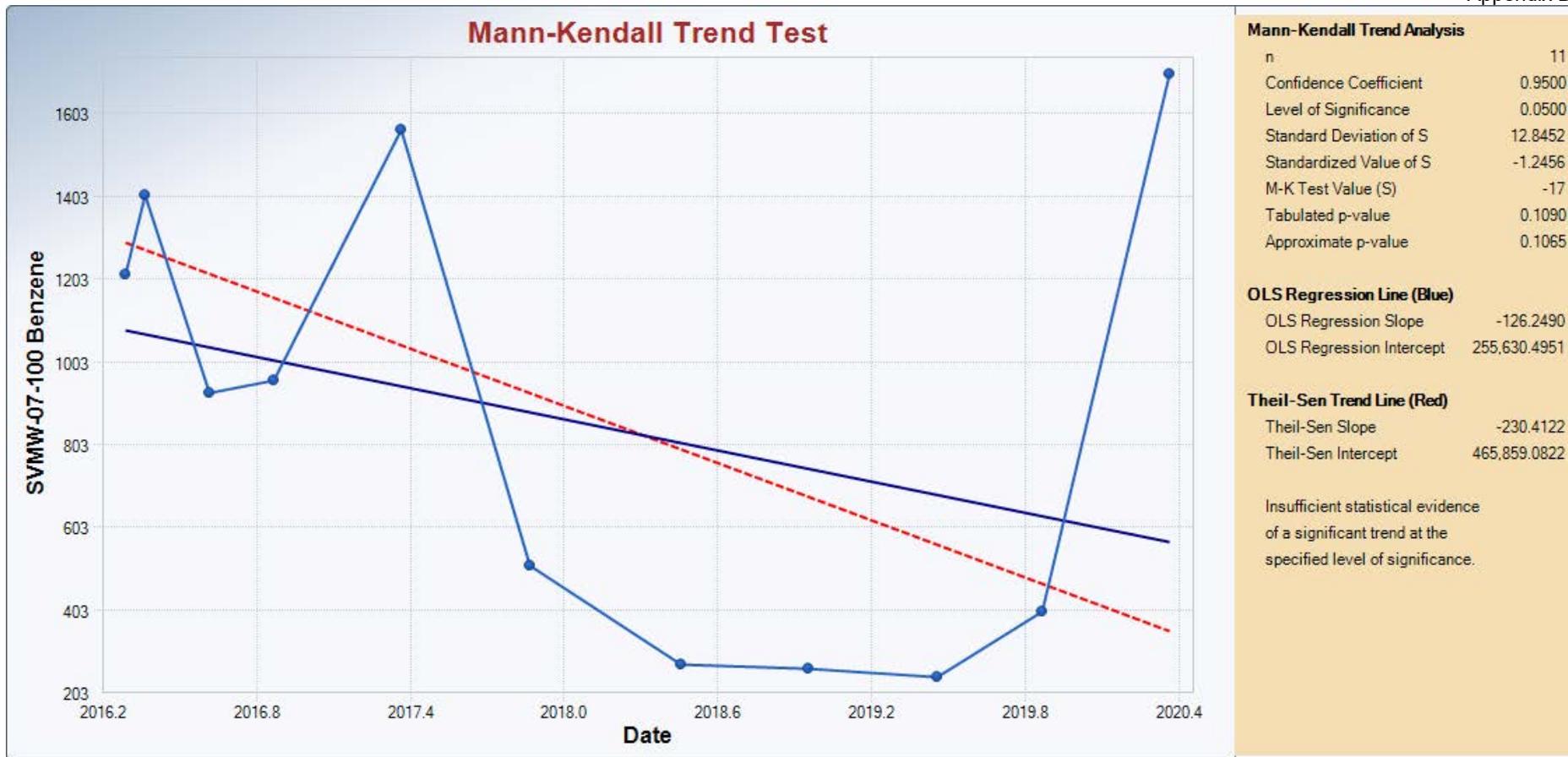
#### OLS Regression Line (Blue)

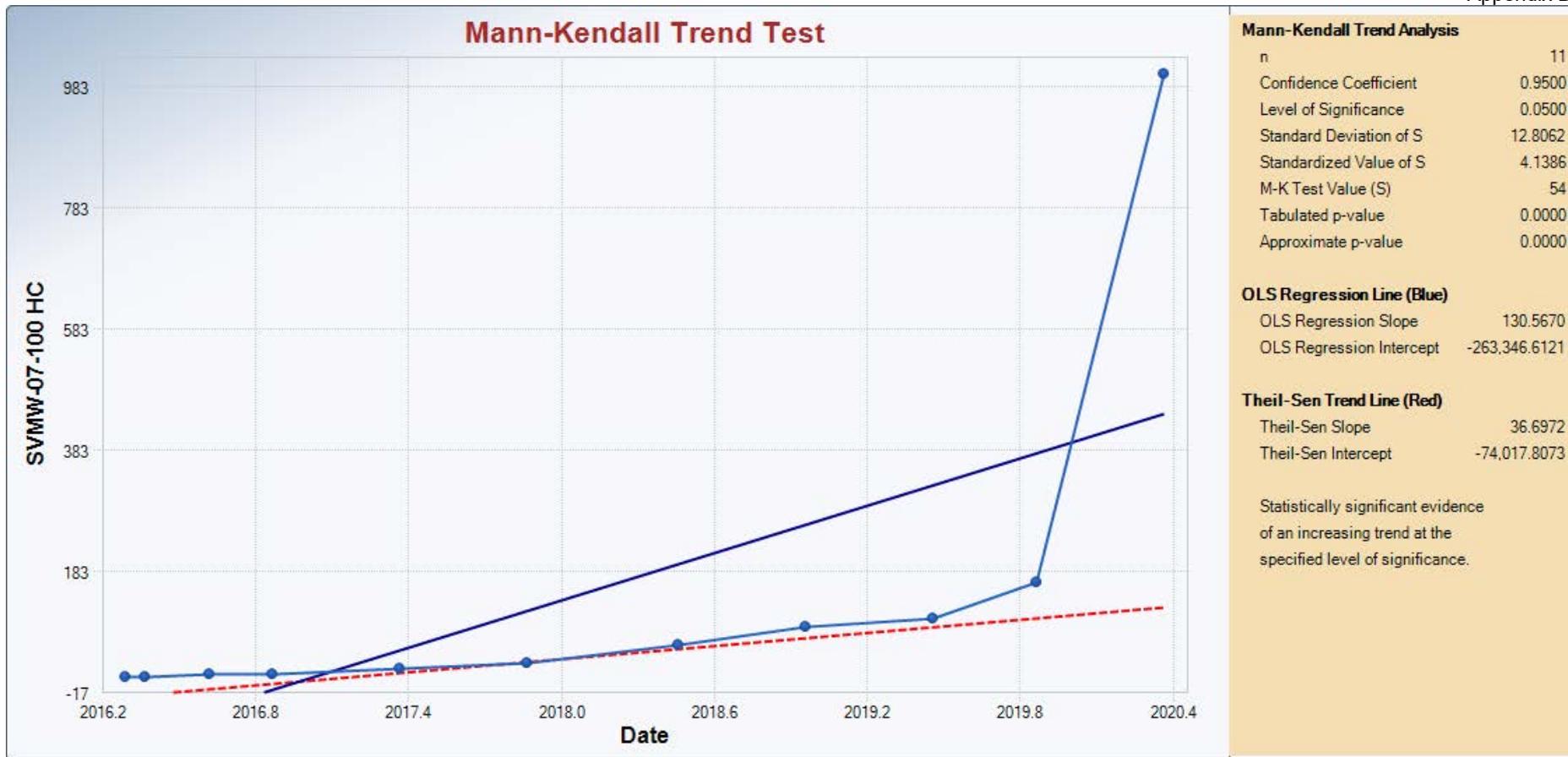
OLS Regression Slope	1,574.2958
OLS Regression Intercept	-3,161,712.5257

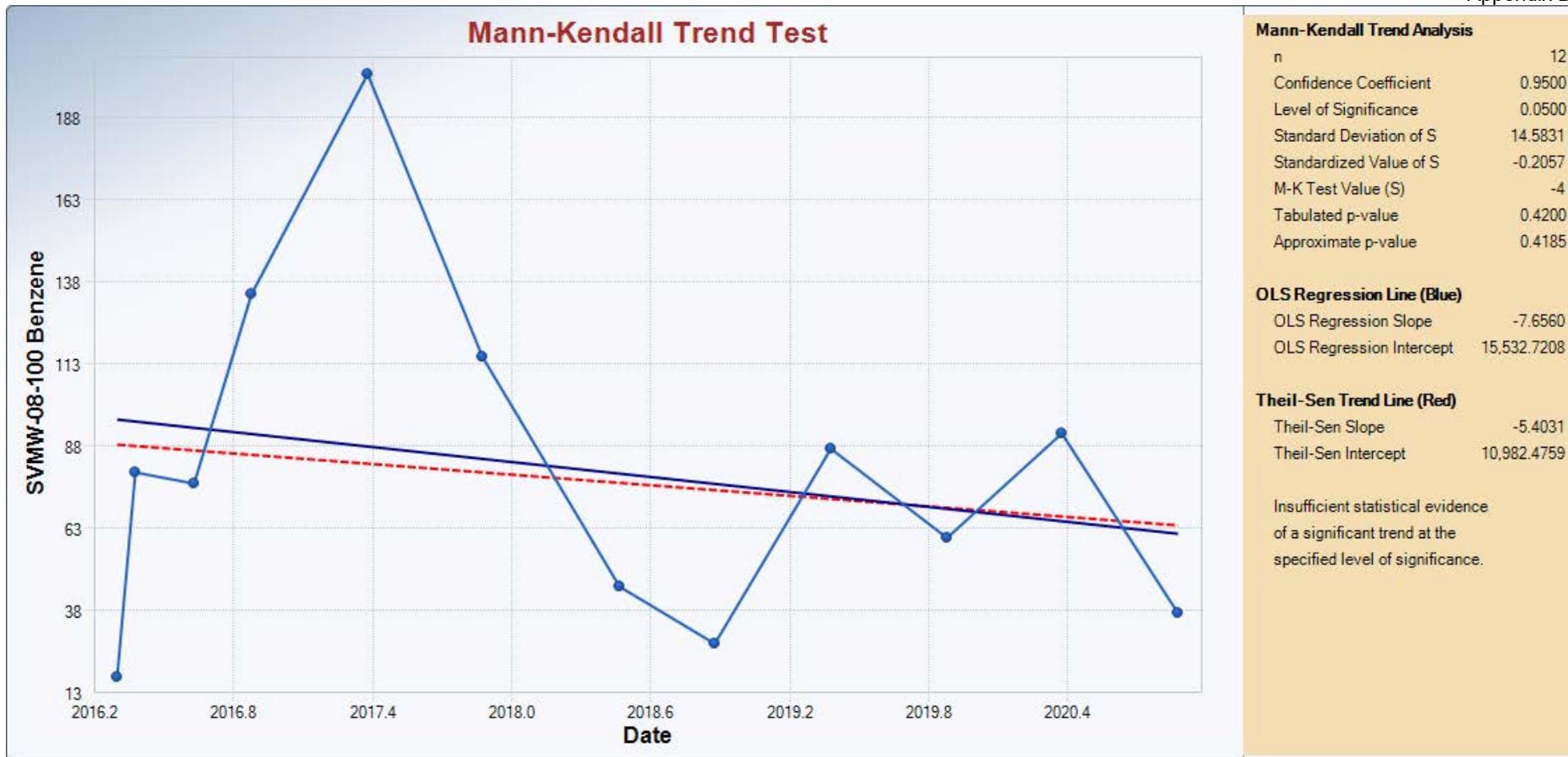
#### Theil-Sen Trend Line (Red)

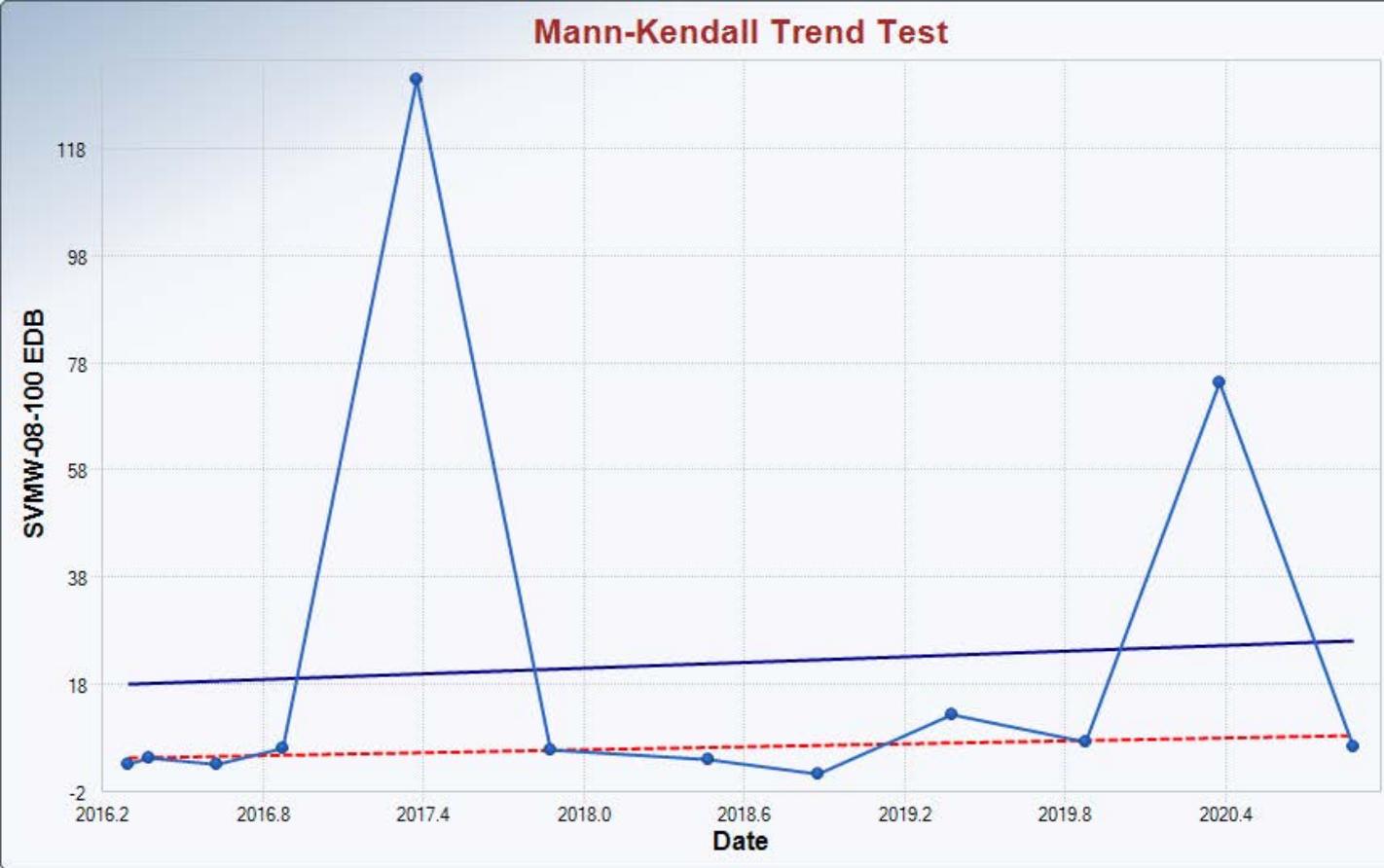
Theil-Sen Slope	615.5674
Theil-Sen Intercept	-1,228,216.9105

Statistically significant evidence of an increasing trend at the specified level of significance.

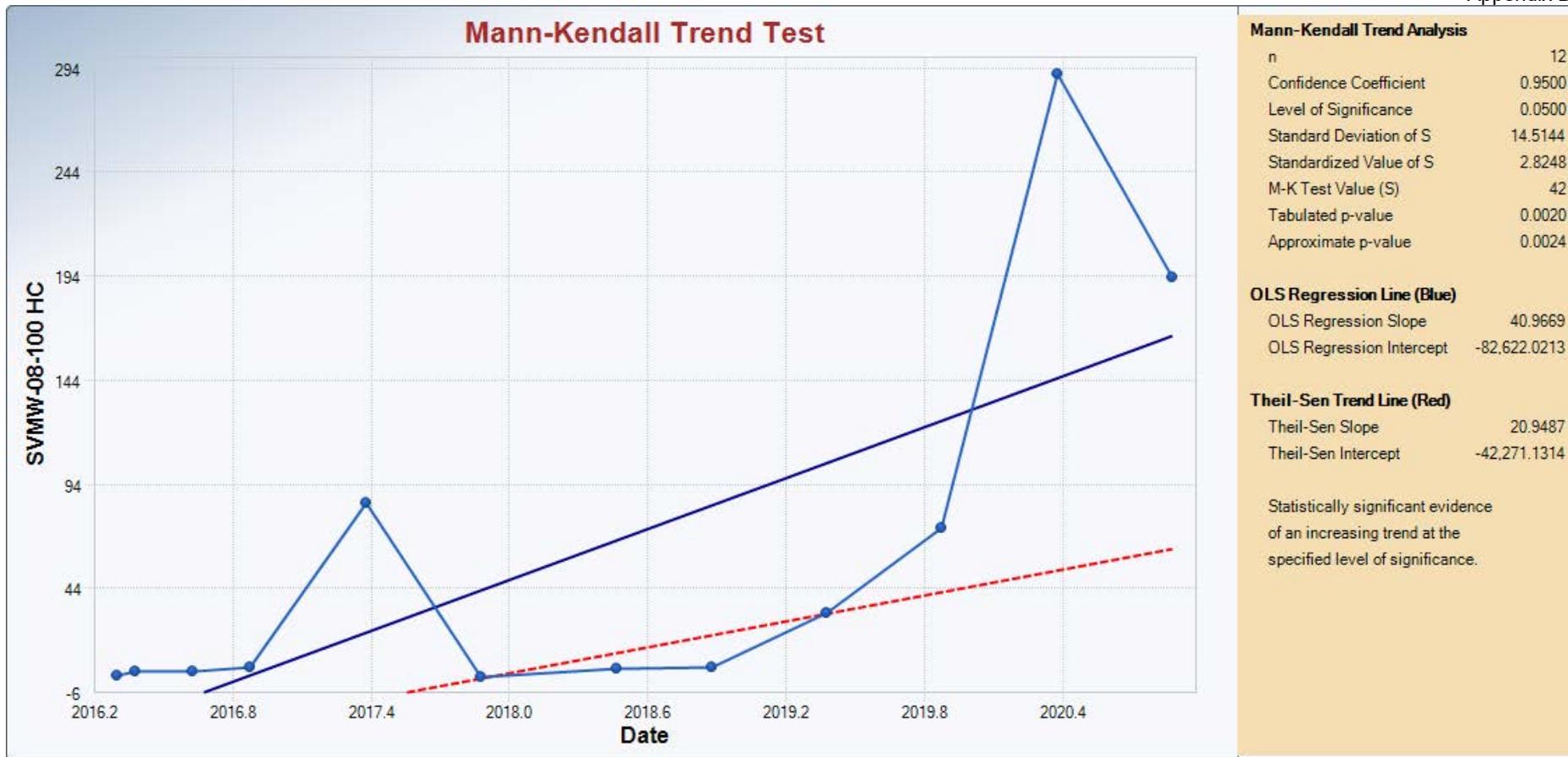


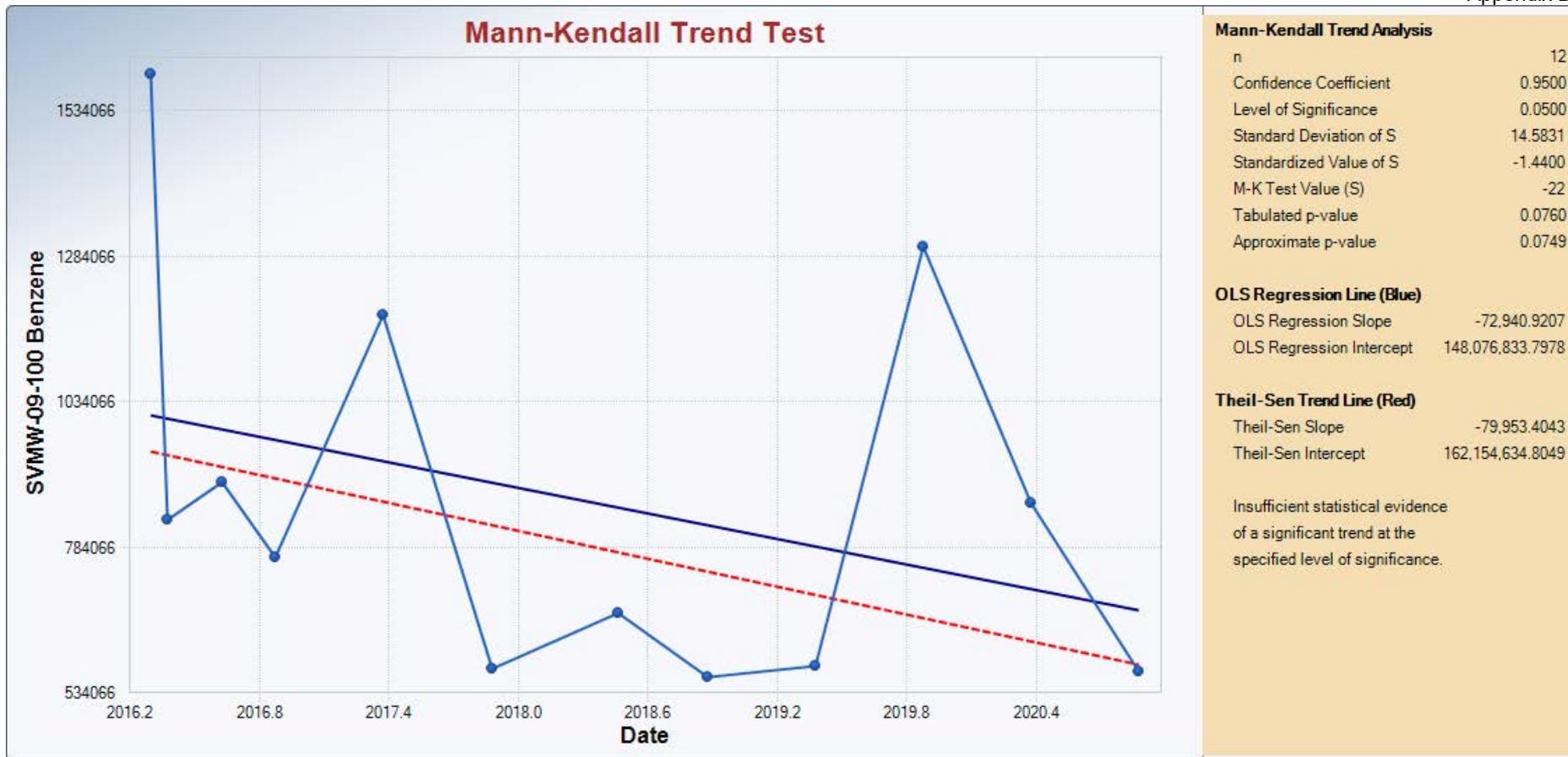


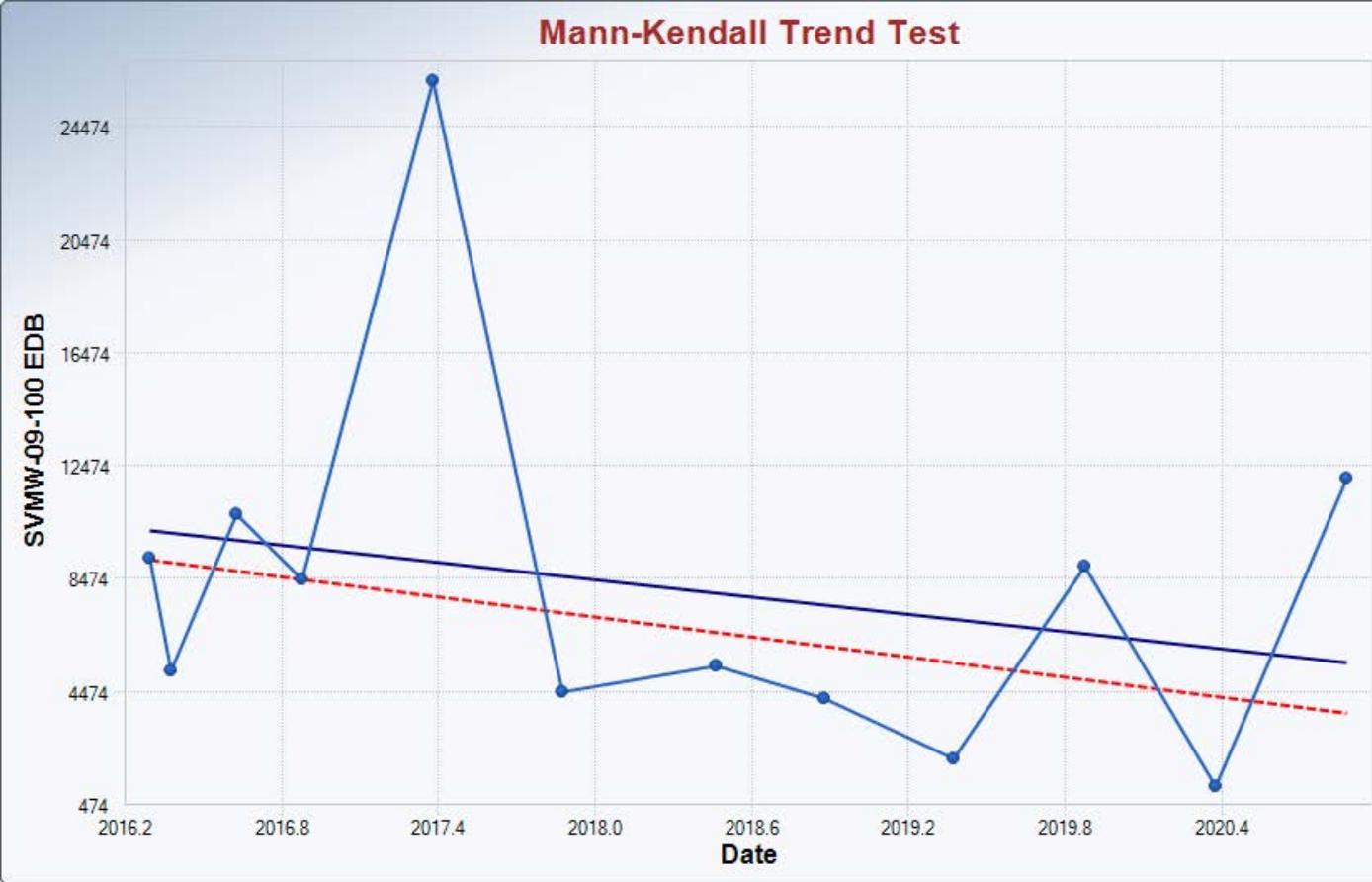




Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	1.3029
M-K Test Value (S)	20
Tabulated p-value	0.0980
Approximate p-value	0.0963
OLS Regression Line (Blue)	
OLS Regression Slope	1.8222
OLS Regression Intercept	-3.656.3935
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.9524
Theil-Sen Intercept	-1.916.4381
Insufficient statistical evidence of a significant trend at the specified level of significance.	







**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-1.0286
M-K Test Value (S)	-16
Tabulated p-value	0.1550
Approximate p-value	0.1518

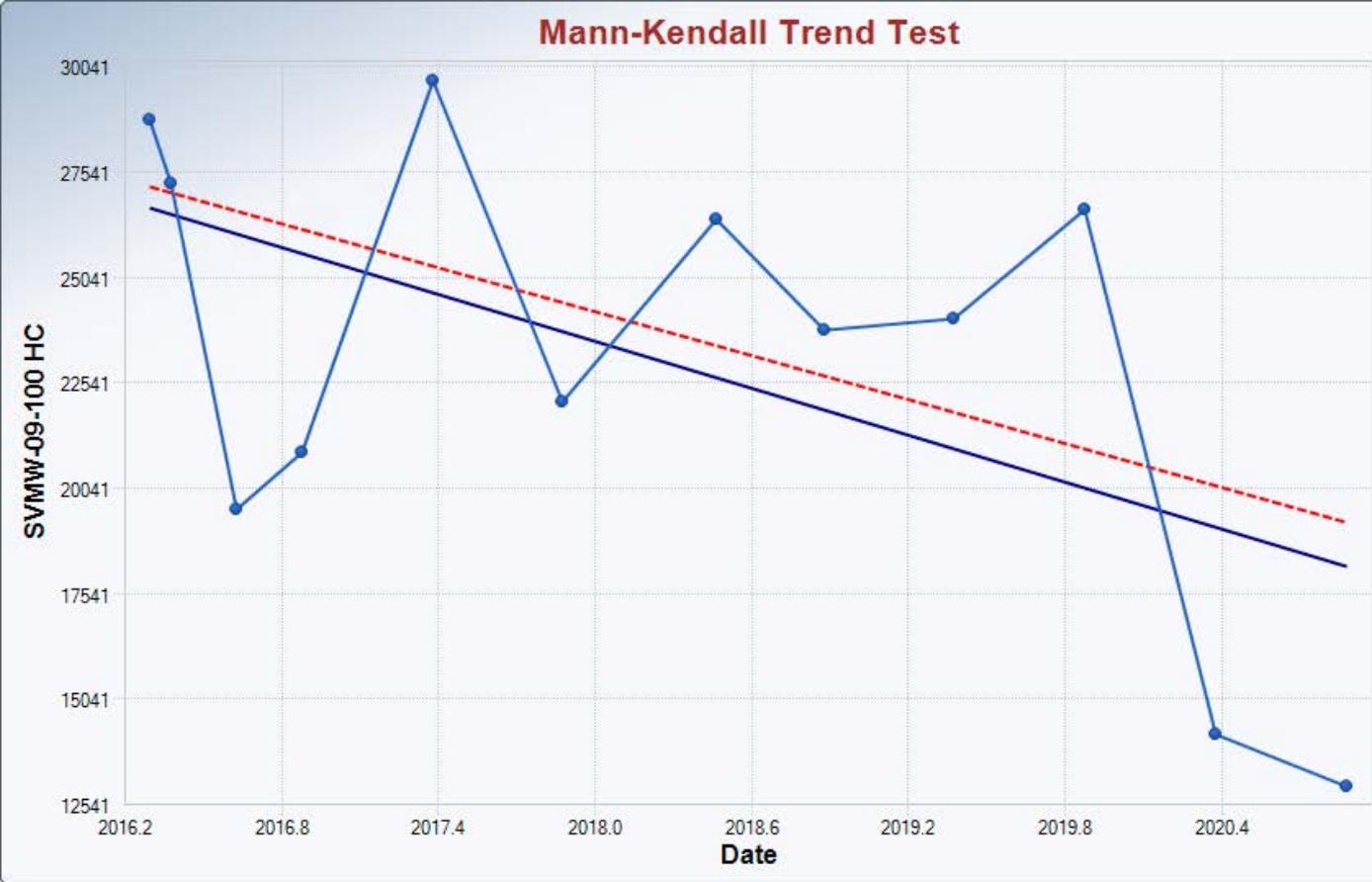
**OLS Regression Line (Blue)**

OLS Regression Slope	-1,021.5803
OLS Regression Intercept	2,069,942.3686

**Theil-Sen Trend Line (Red)**

Theil-Sen Slope	-1,183.3177
Theil-Sen Intercept	2,395,009.4231

Insufficient statistical evidence of a significant trend at the specified level of significance.



**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-1.3029
M-K Test Value (S)	-20
Tabulated p-value	0.0980
Approximate p-value	0.0963

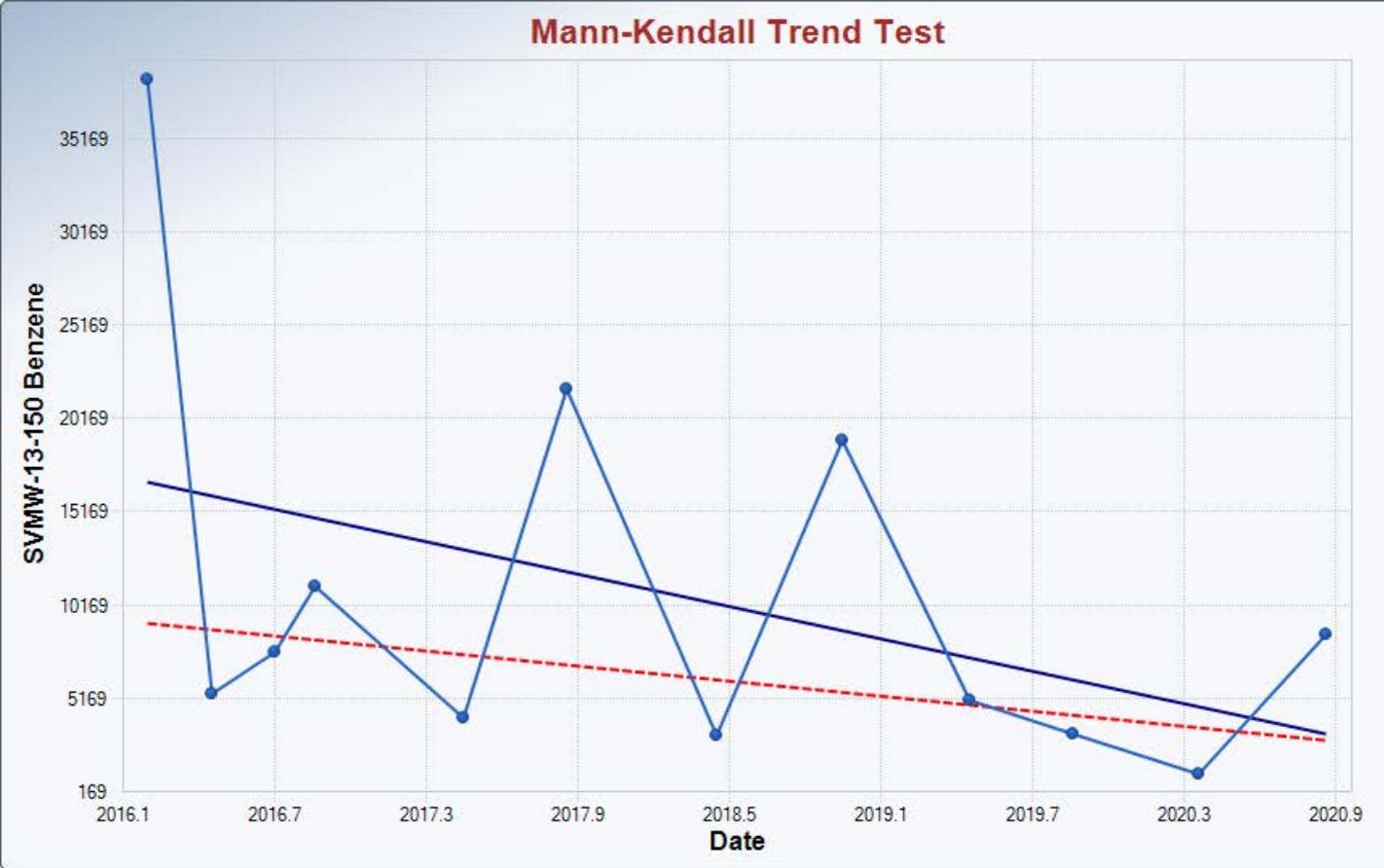
**OLS Regression Line (Blue)**

OLS Regression Slope	-1,860.6677
OLS Regression Intercept	3,778,275.7872

**Theil-Sen Trend Line (Red)**

Theil-Sen Slope	-1,732.6891
Theil-Sen Intercept	3,520,708.1408

Insufficient statistical evidence of a significant trend at the specified level of significance.



Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-1.4400
M-K Test Value (S)	-22
Tabulated p-value	0.0760
Approximate p-value	0.0749

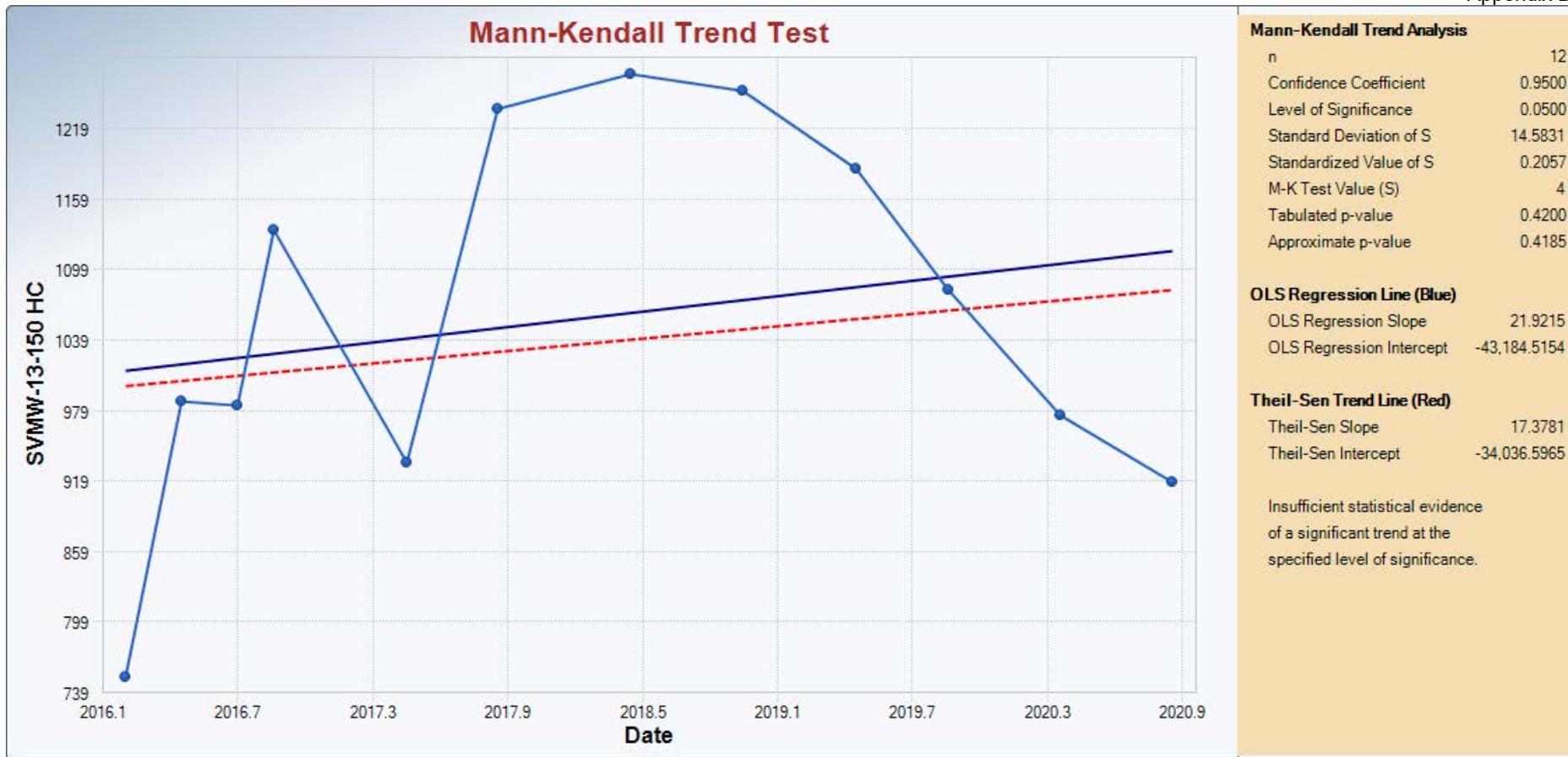
  

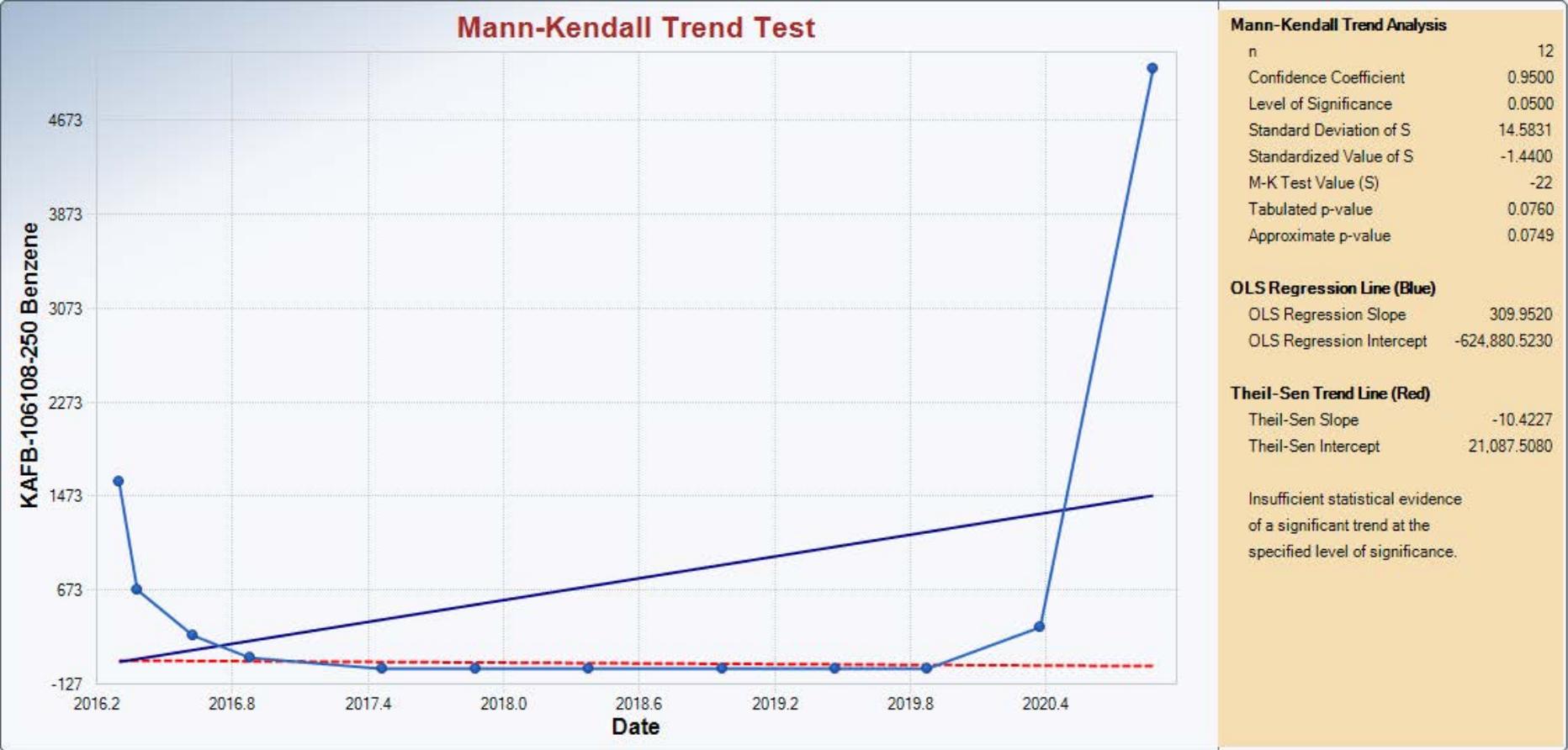
OLS Regression Line (Blue)	
OLS Regression Slope	-2,899.2167
OLS Regression Intercept	5,862,098.5436

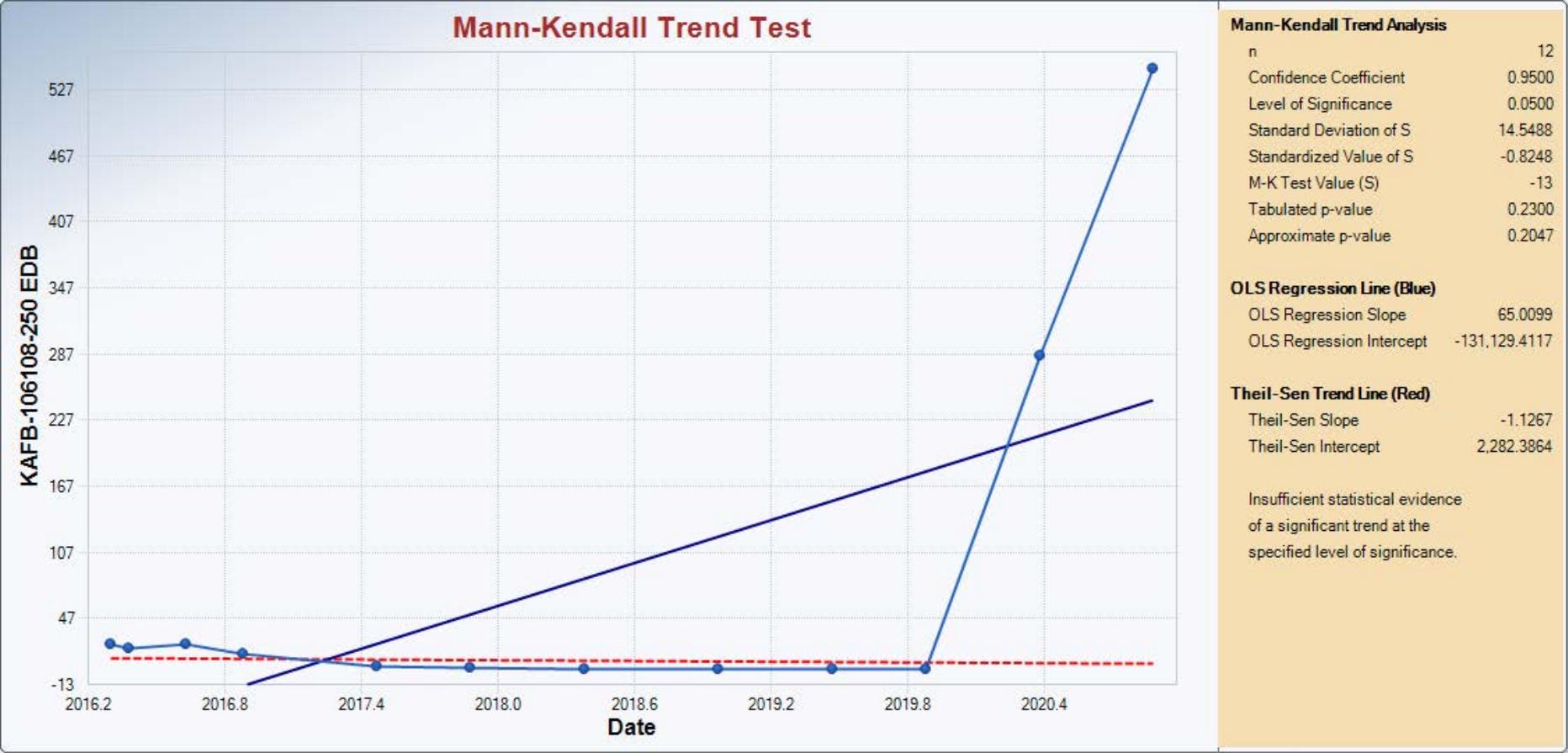
  

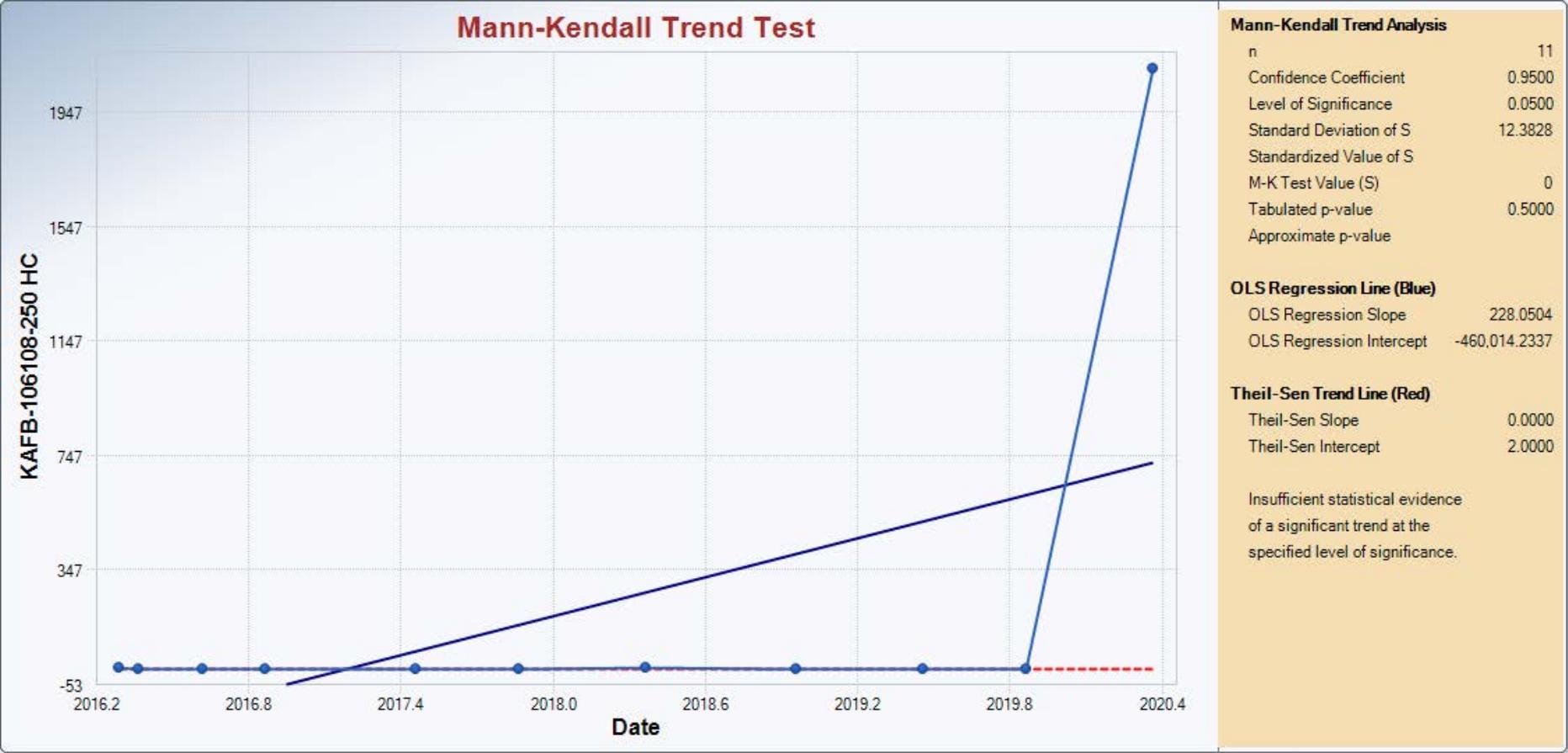
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-1,329.9555
Theil-Sen Intercept	2,690,565.4950

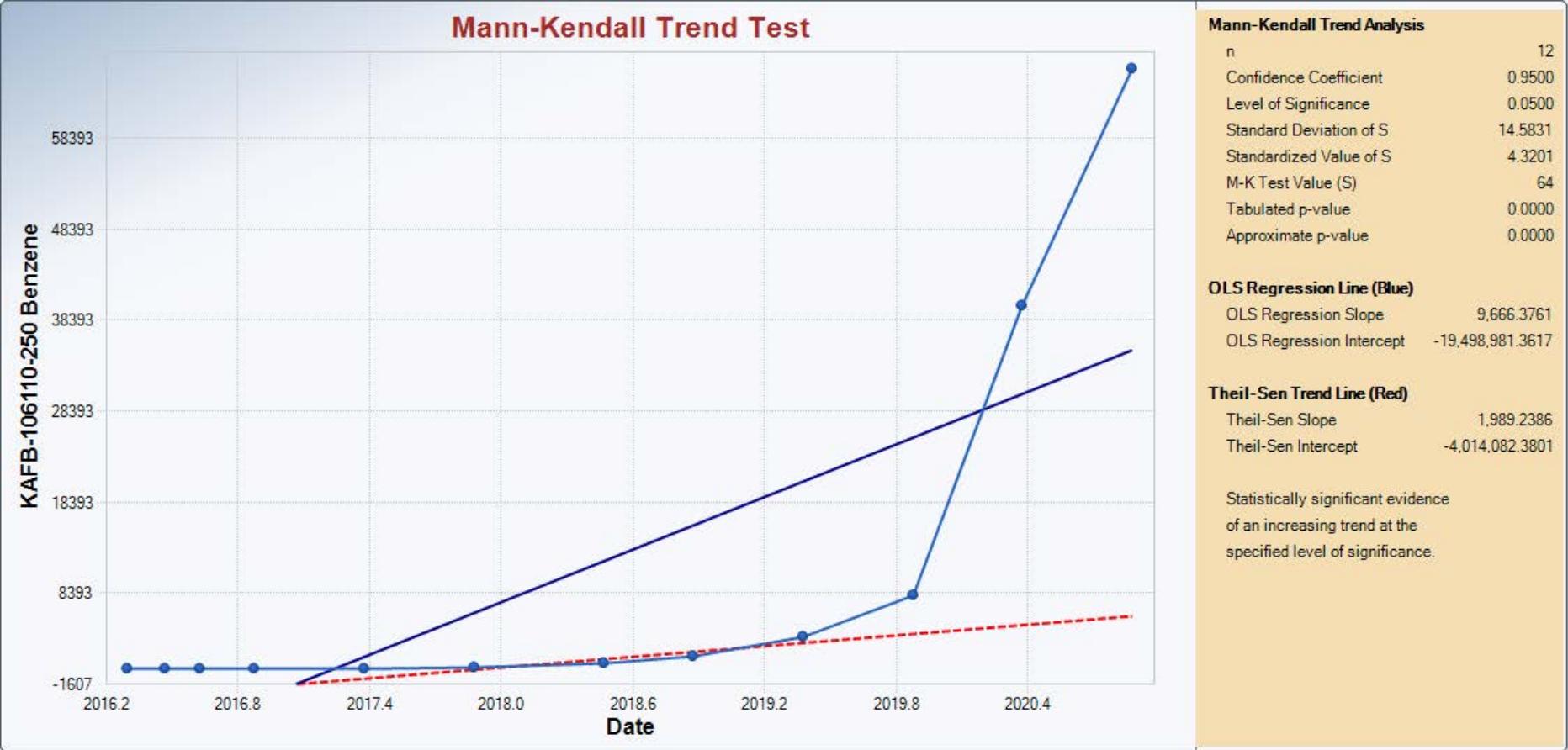
Insufficient statistical evidence of a significant trend at the specified level of significance.

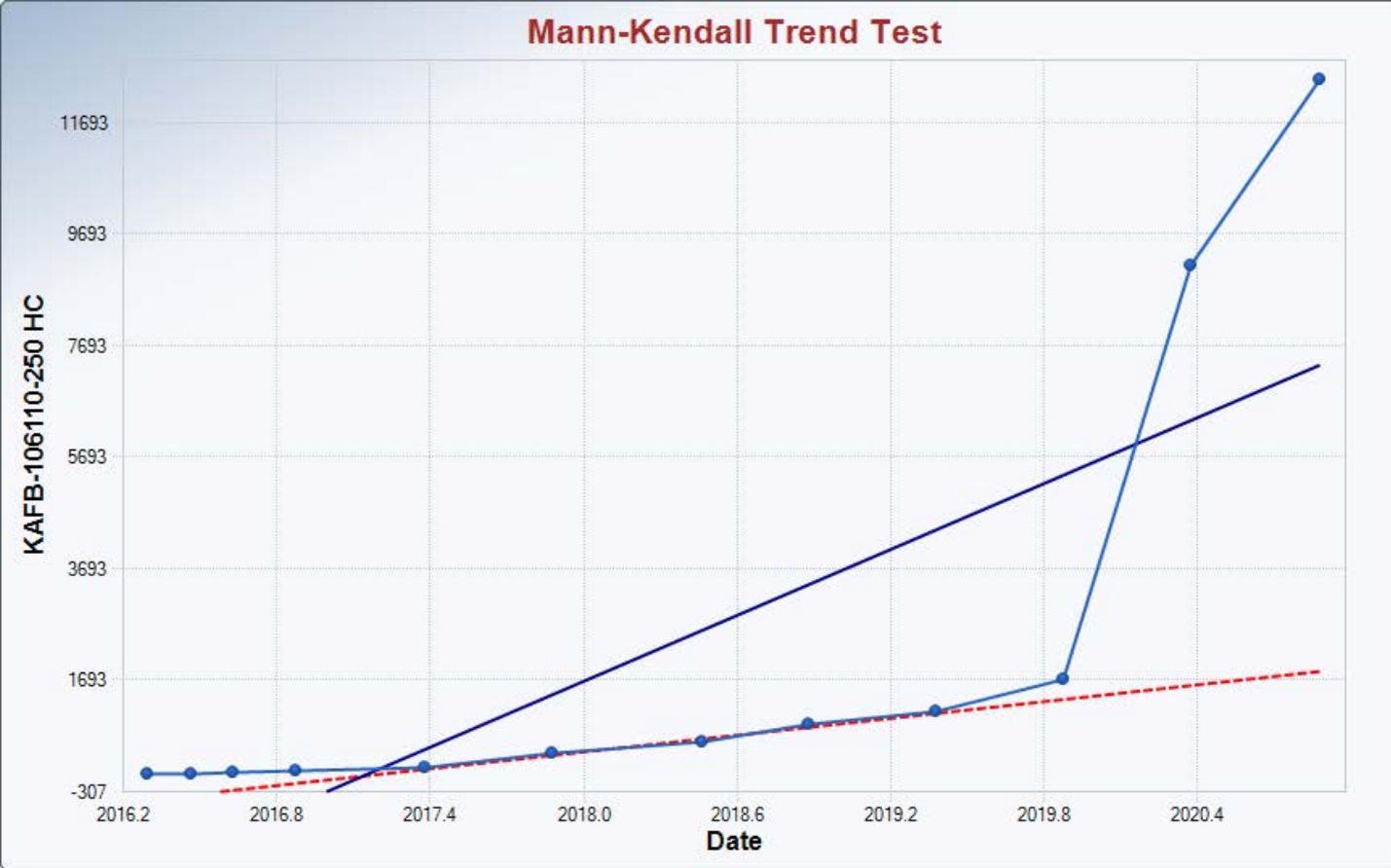




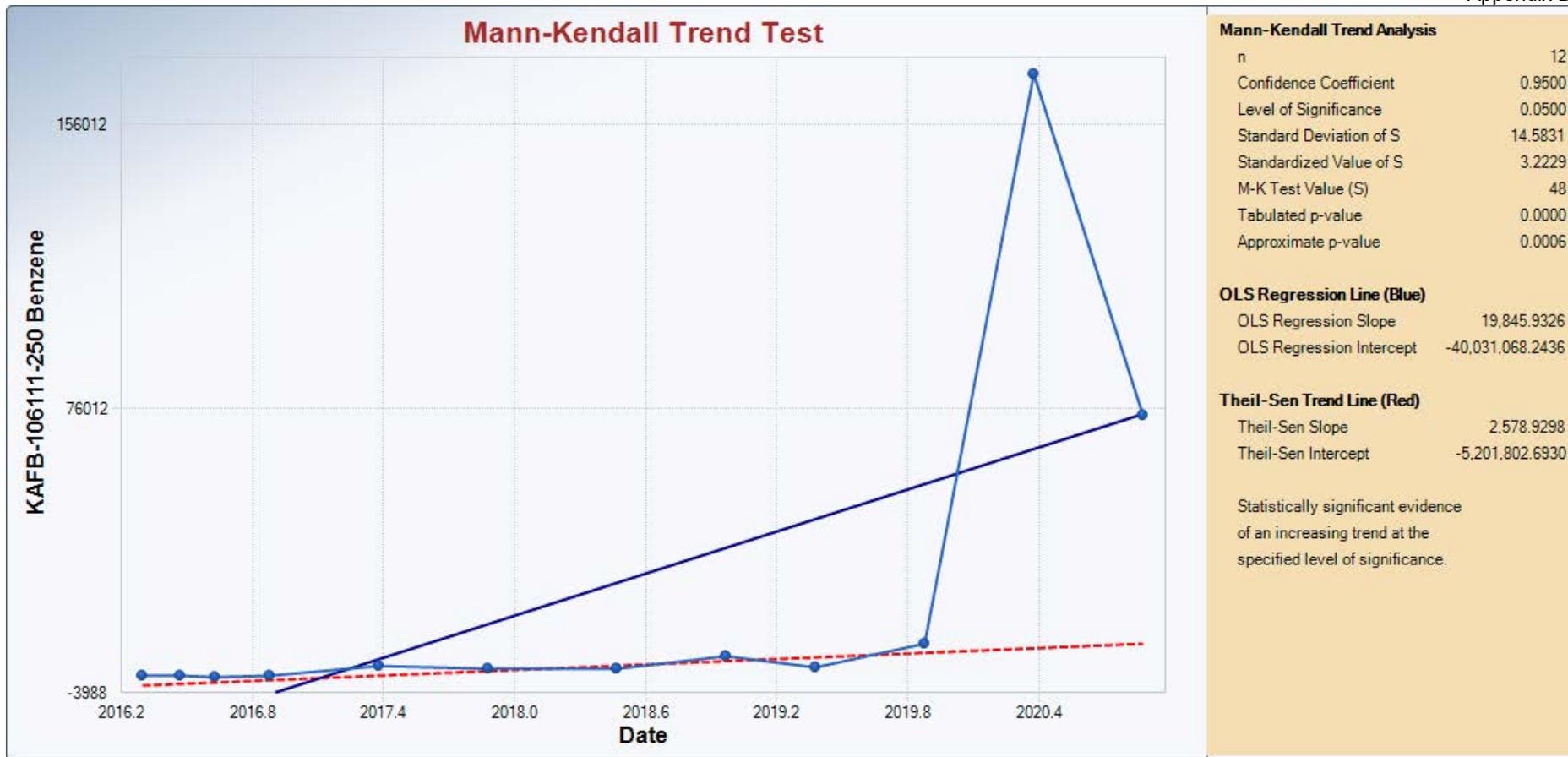


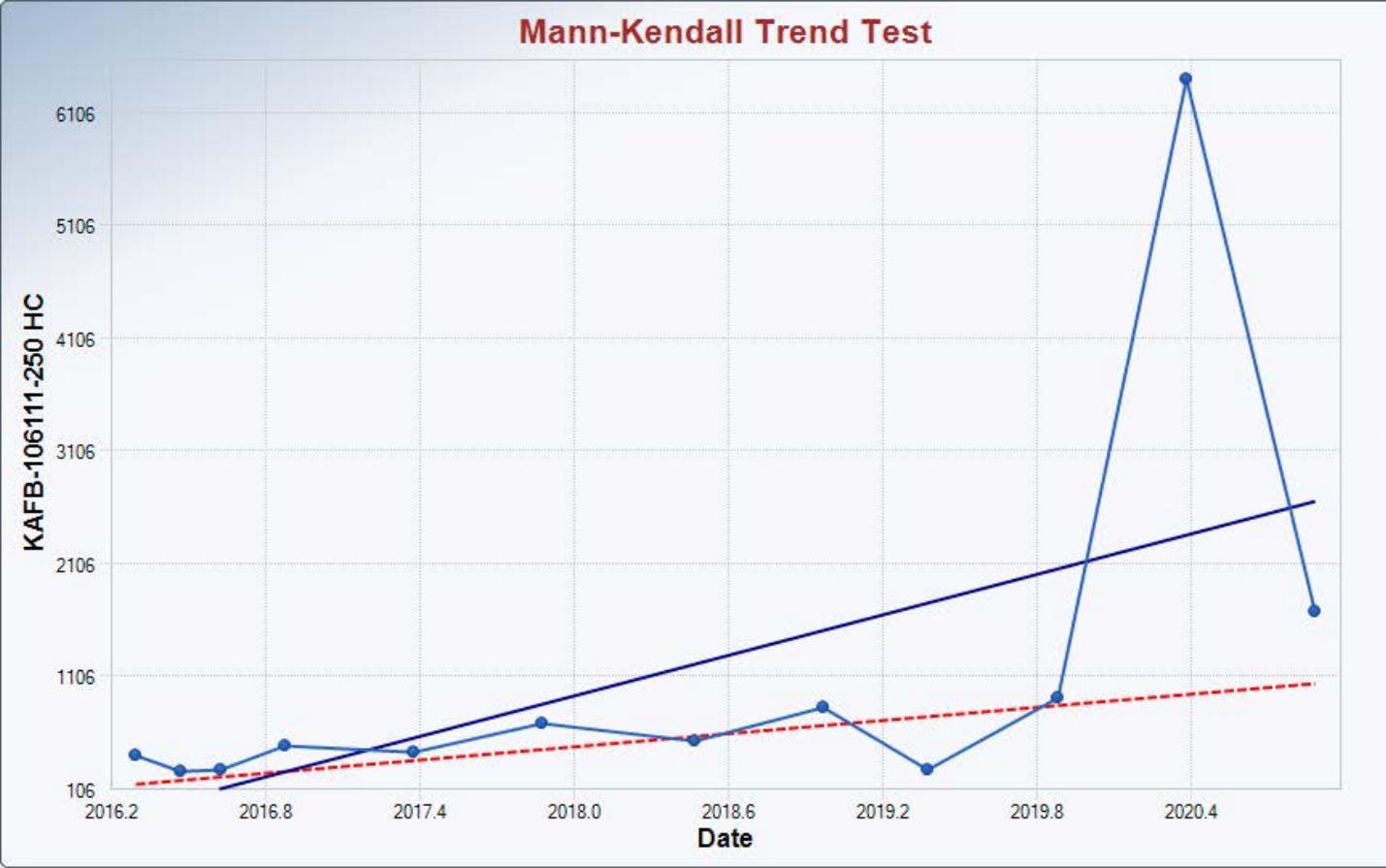






Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	4.4572
M-K Test Value (S)	66
Tabulated p-value	0.0000
Approximate p-value	0.0000
OLS Regression Line (Blue)	
OLS Regression Slope	1,977.4627
OLS Regression Intercept	-3,988,771.1230
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	512.7885
Theil-Sen Intercept	-1,034,393.7139
Statistically significant evidence of an increasing trend at the specified level of significance.	





**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	2.8115
M-K Test Value (S)	42
Tabulated p-value	0.0020
Approximate p-value	0.0025

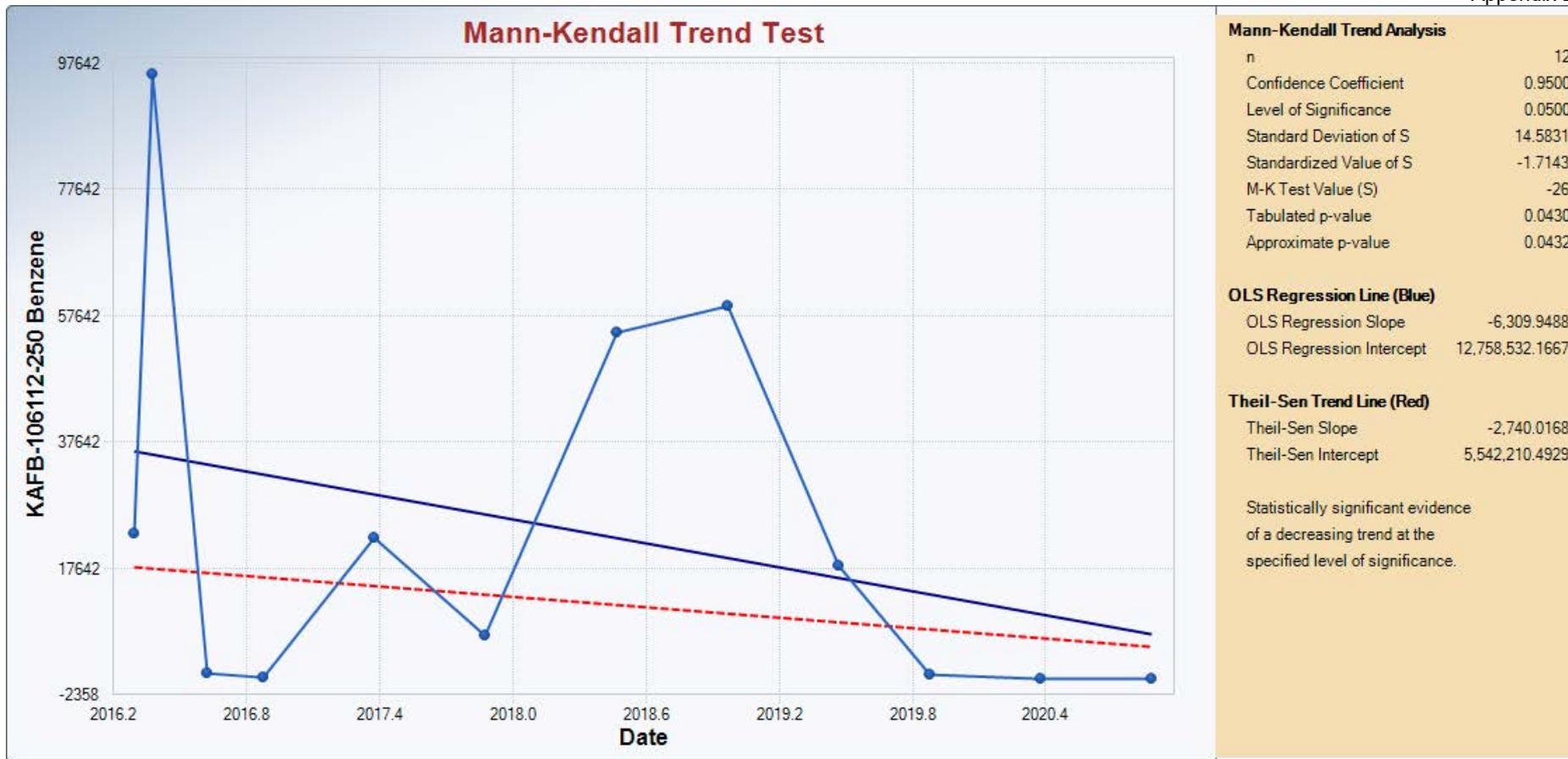
**OLS Regression Line (Blue)**

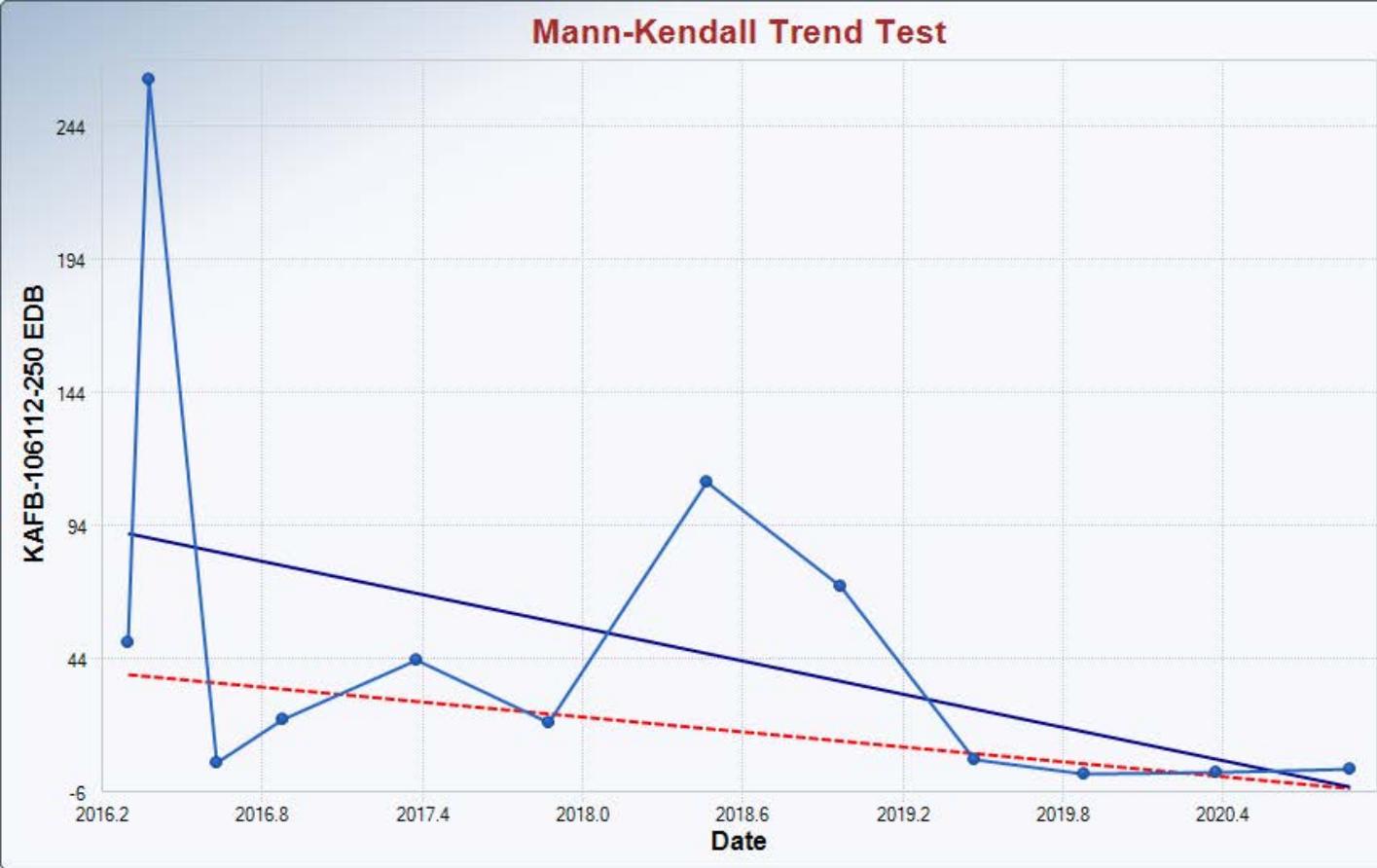
OLS Regression Slope	601.4510
OLS Regression Intercept	-1,212,774.6827

**Theil-Sen Trend Line (Red)**

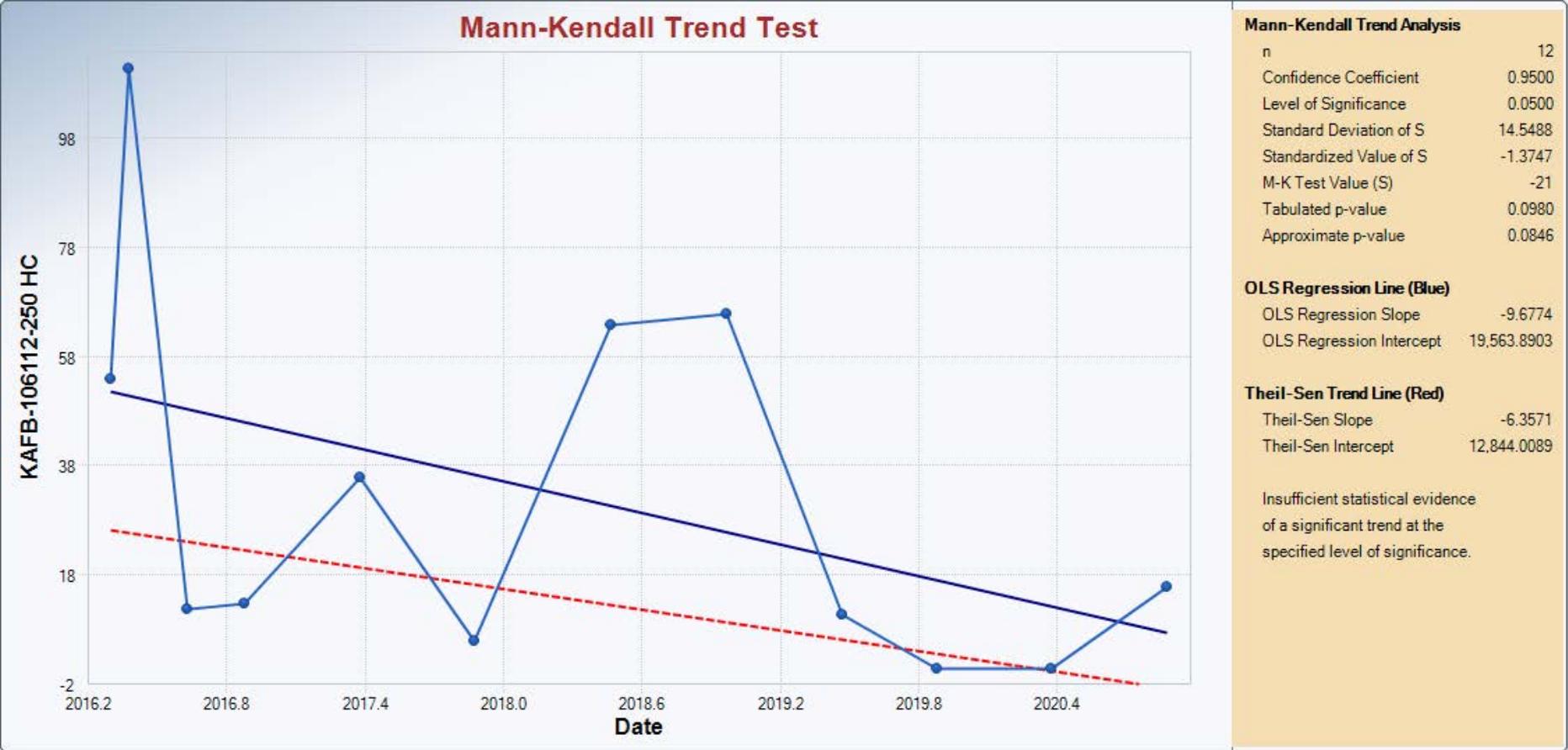
Theil-Sen Slope	194.7692
Theil-Sen Intercept	-392,557.6538

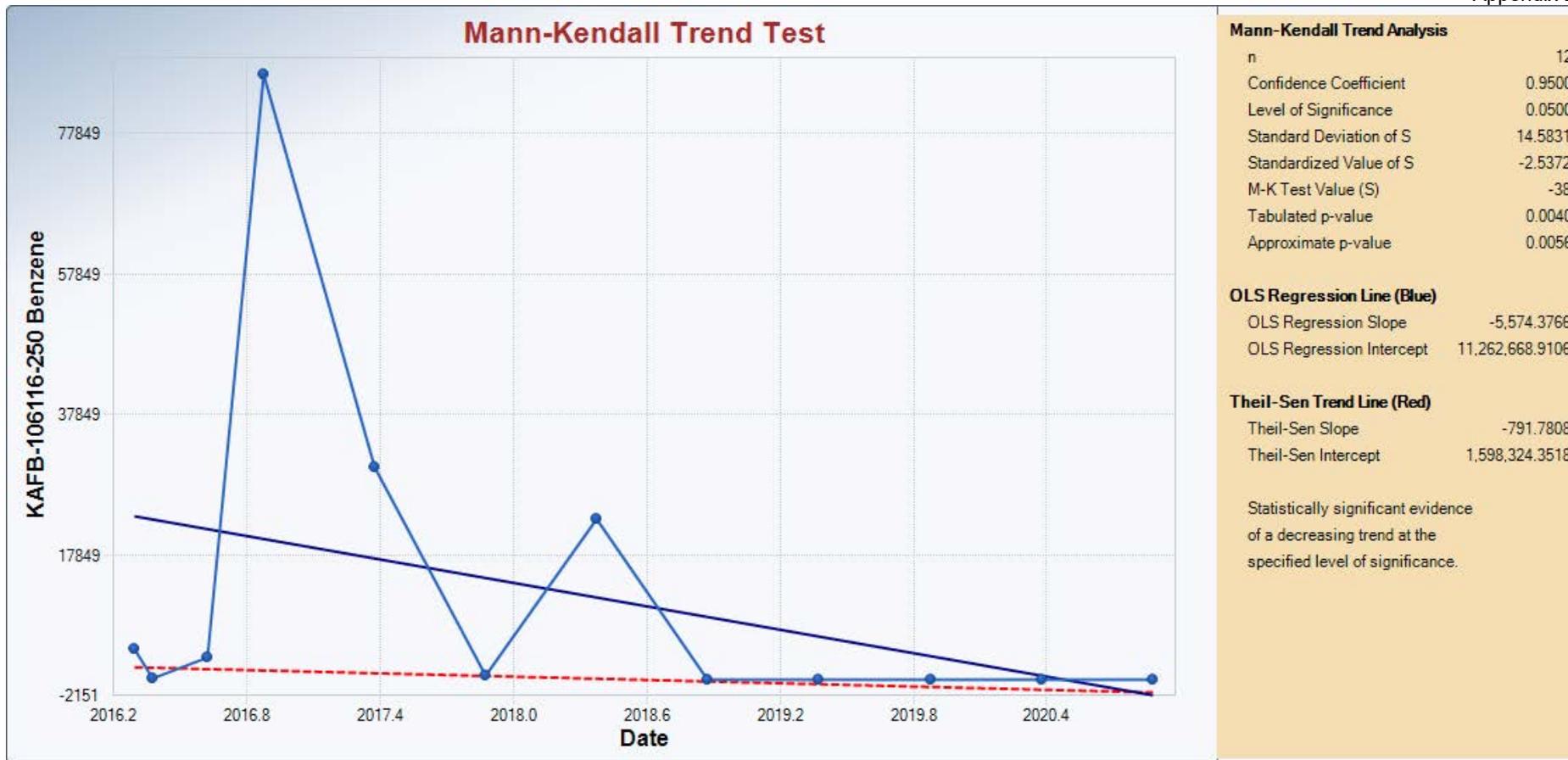
Statistically significant evidence of an increasing trend at the specified level of significance.

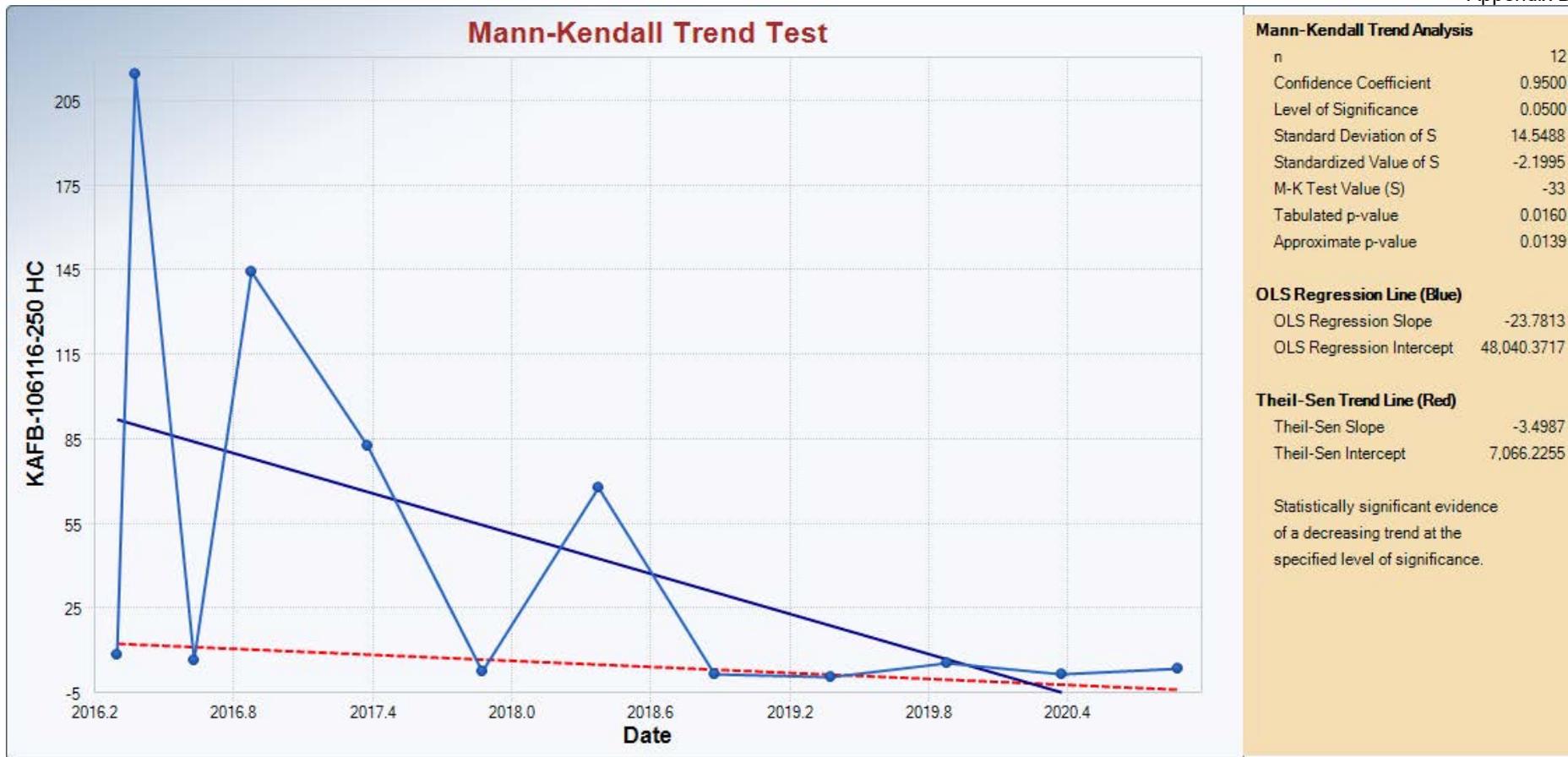


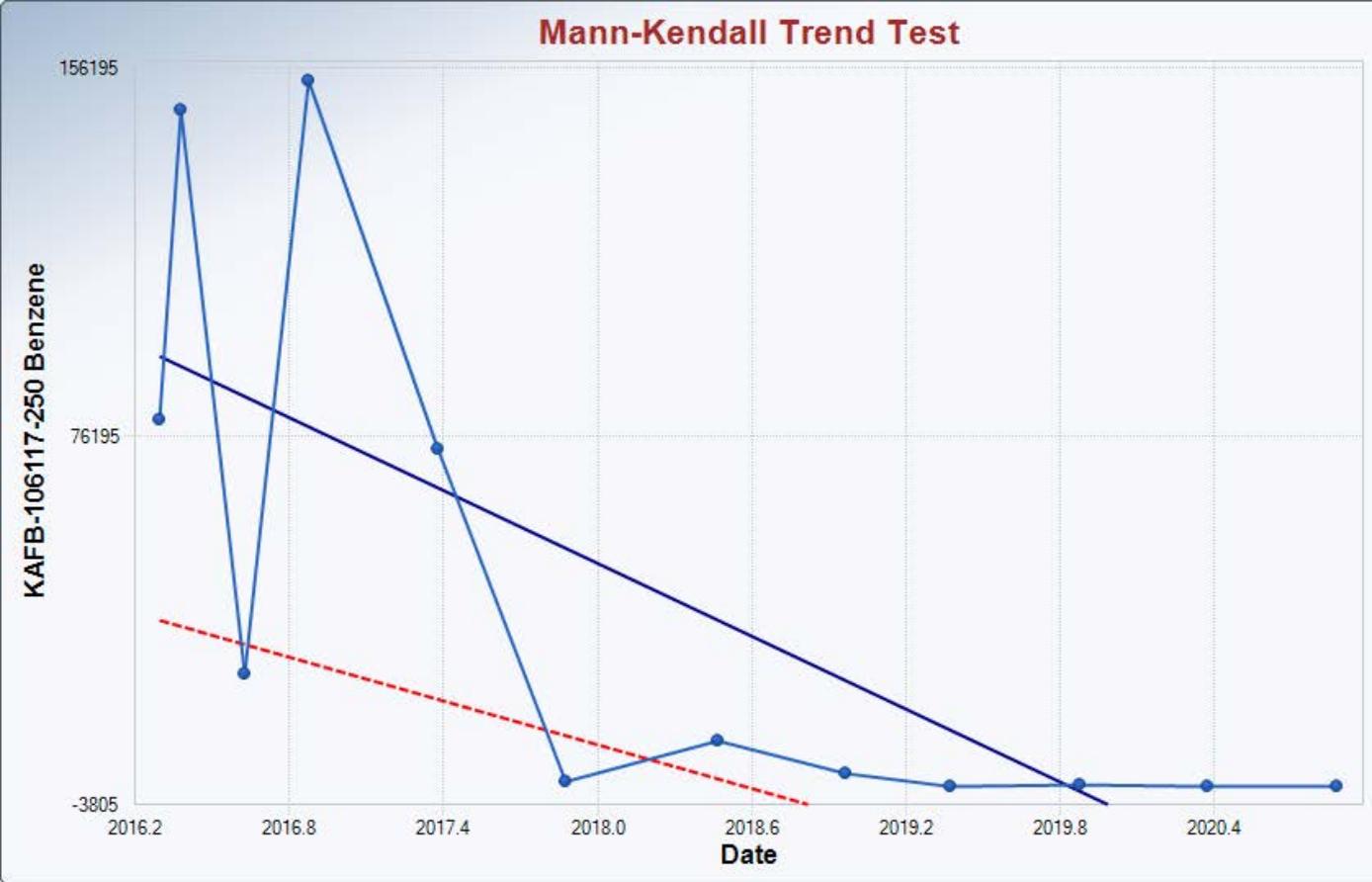


Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-1.8515
M-K Test Value (S)	-28
Tabulated p-value	0.0310
Approximate p-value	0.0321
OLS Regression Line (Blue)	
OLS Regression Slope	-20.7839
OLS Regression Intercept	41,996.0500
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-9.3271
Theil-Sen Intercept	18,843.7016
Statistically significant evidence of a decreasing trend at the specified level of significance.	

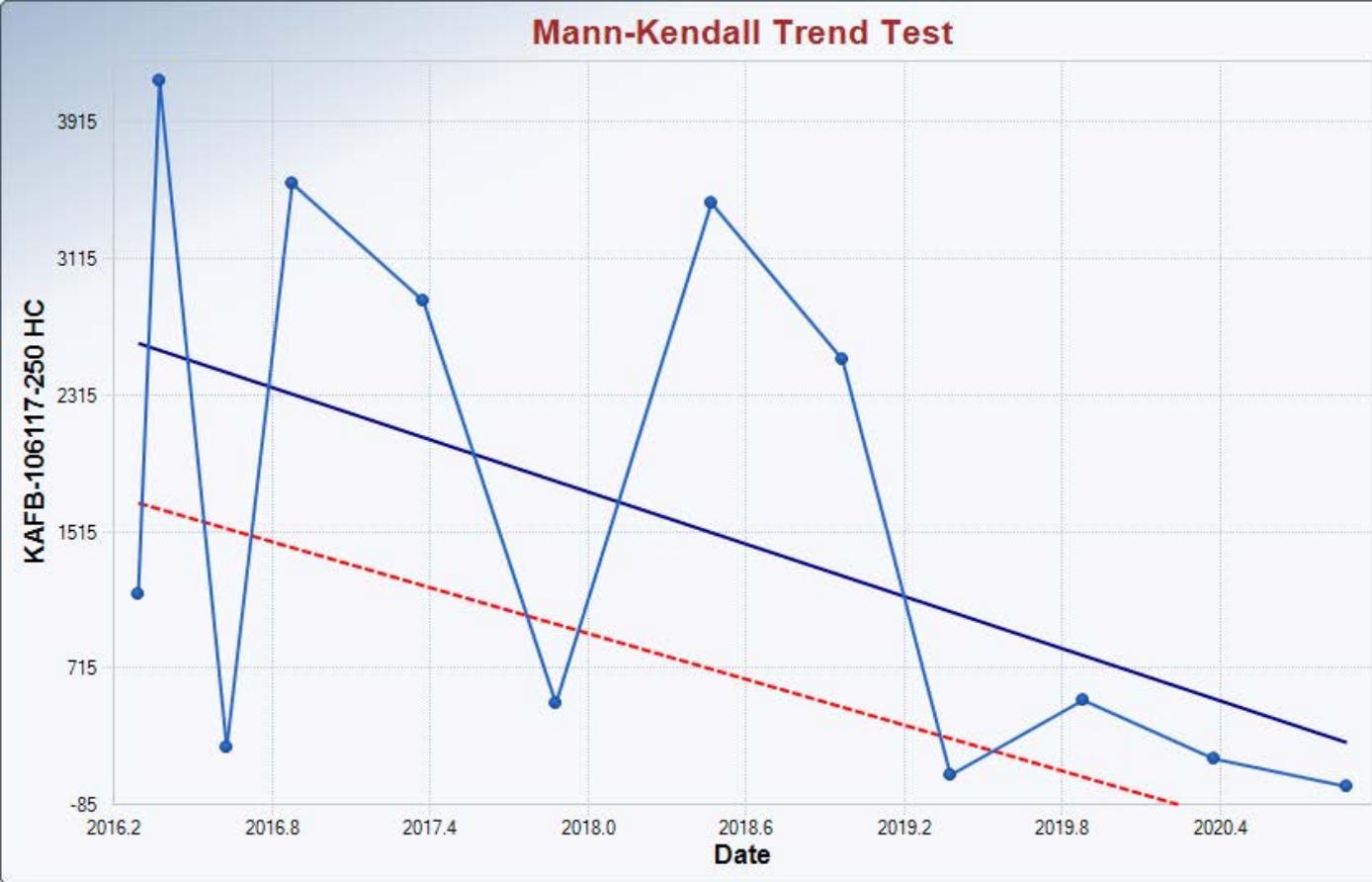








Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-3.2229
M-K Test Value (S)	-48
Tabulated p-value	0.0000
Approximate p-value	0.0006
<b>OLS Regression Line (Blue)</b>	
OLS Regression Slope	-26,418.0955
OLS Regression Intercept	53,358,950.2768
<b>Theil-Sen Trend Line (Red)</b>	
Theil-Sen Slope	-15,916.0563
Theil-Sen Intercept	32,126,991.1099
Statistically significant evidence of a decreasing trend at the specified level of significance.	



**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-2.1257
M-K Test Value (S)	-32
Tabulated p-value	0.0160
Approximate p-value	0.0168

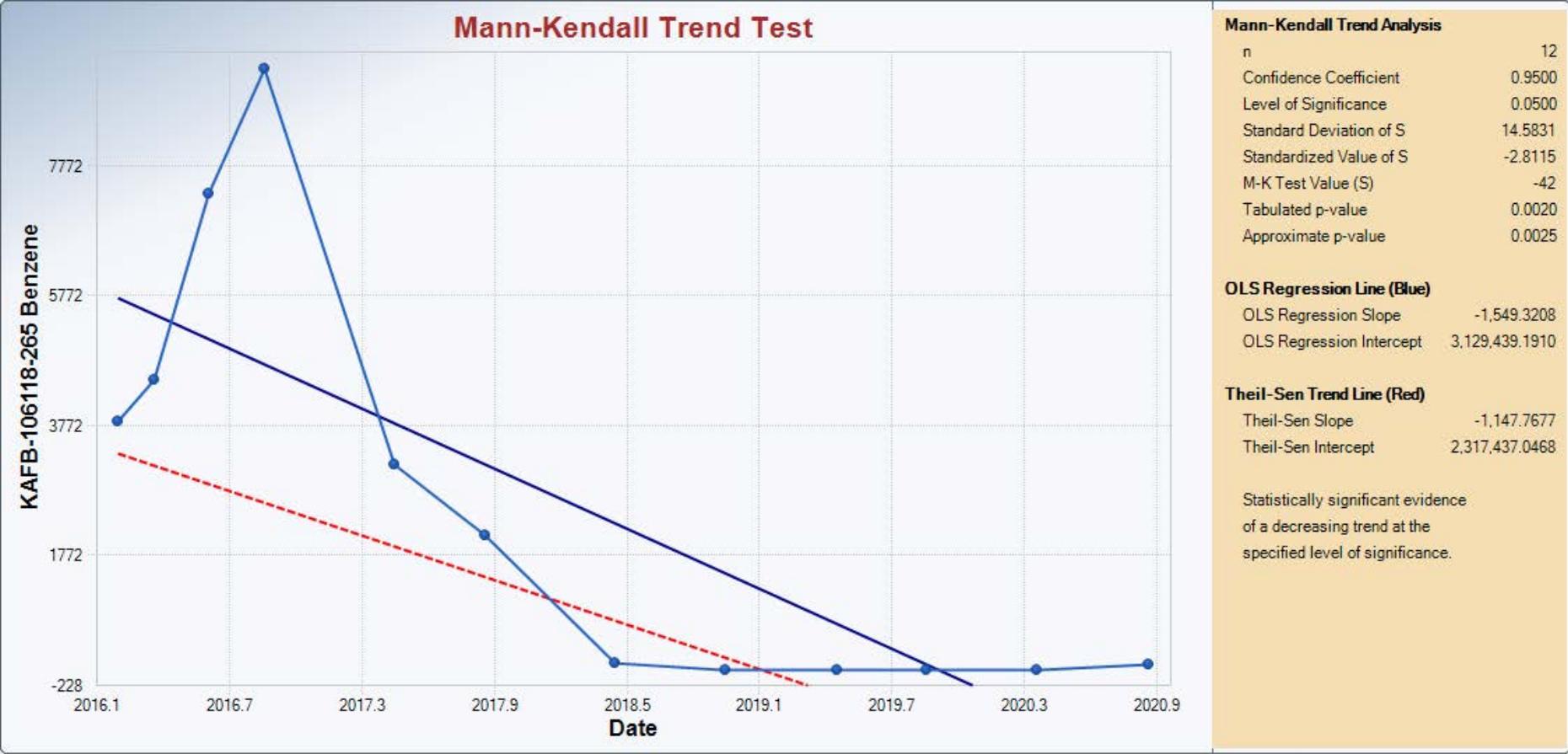
**OLS Regression Line (Blue)**

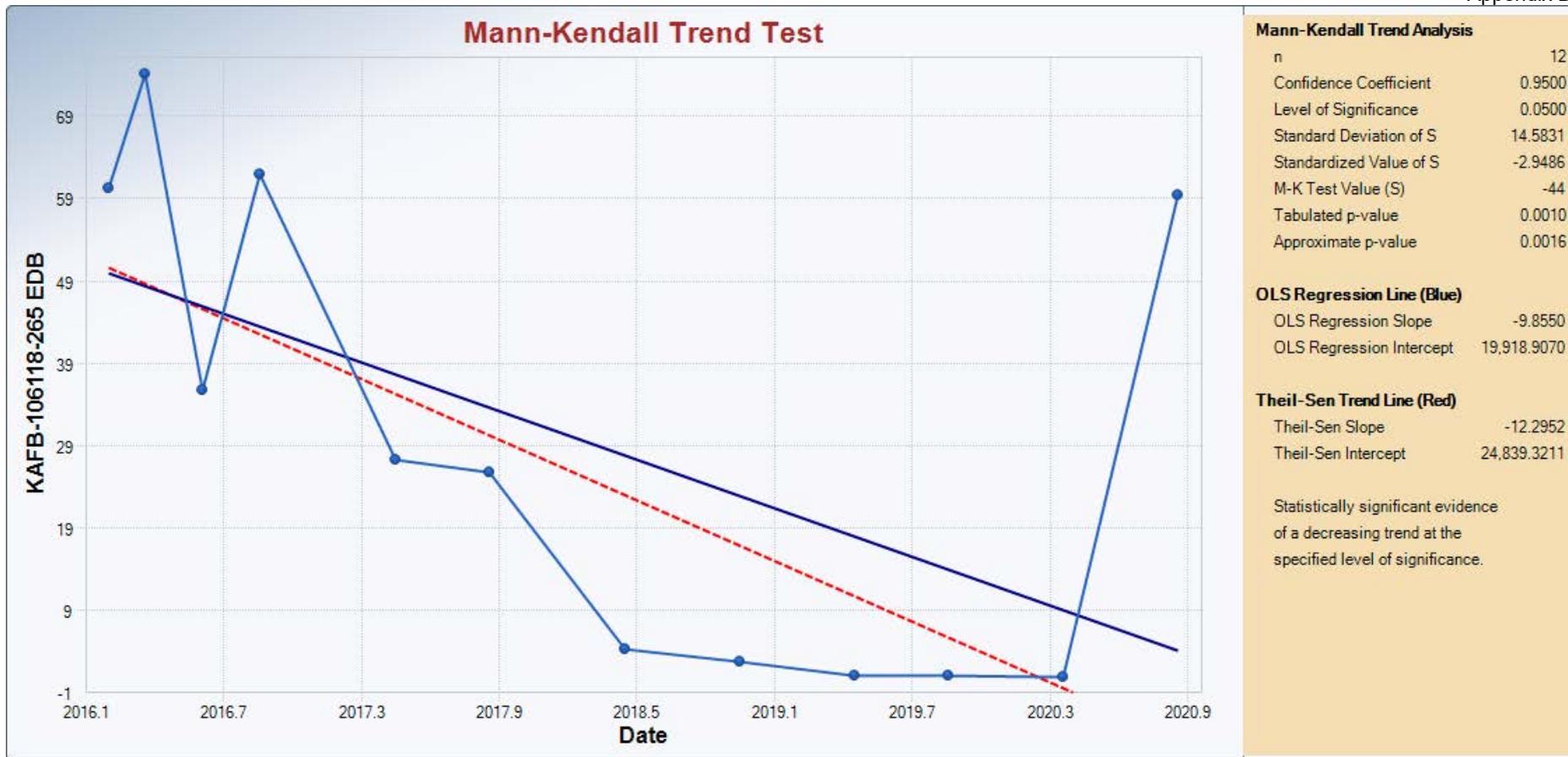
OLS Regression Slope	-512.2668
OLS Regression Intercept	1,035,480.4316

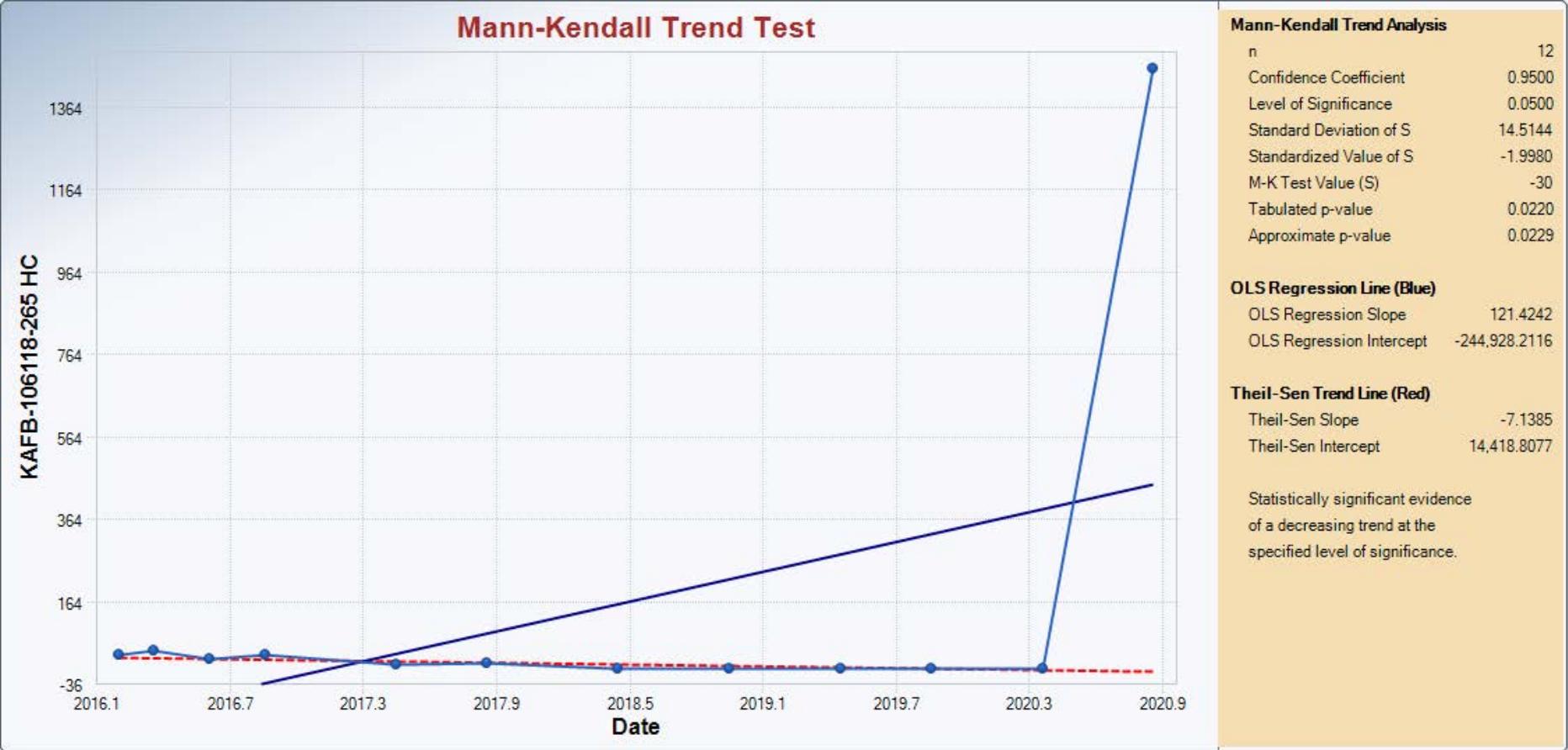
**Theil-Sen Trend Line (Red)**

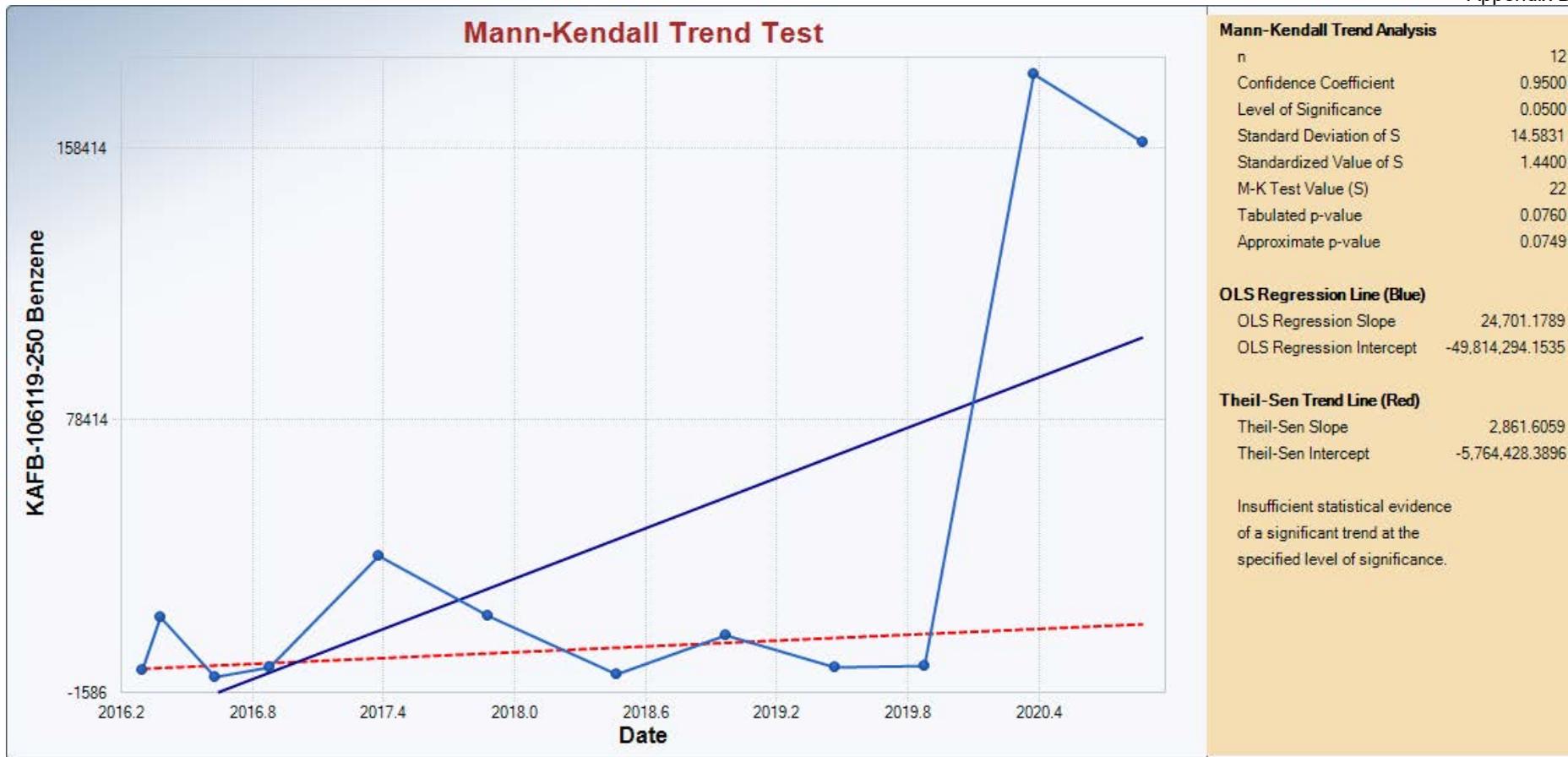
Theil-Sen Slope	-451.3355
Theil-Sen Intercept	911,688.9021

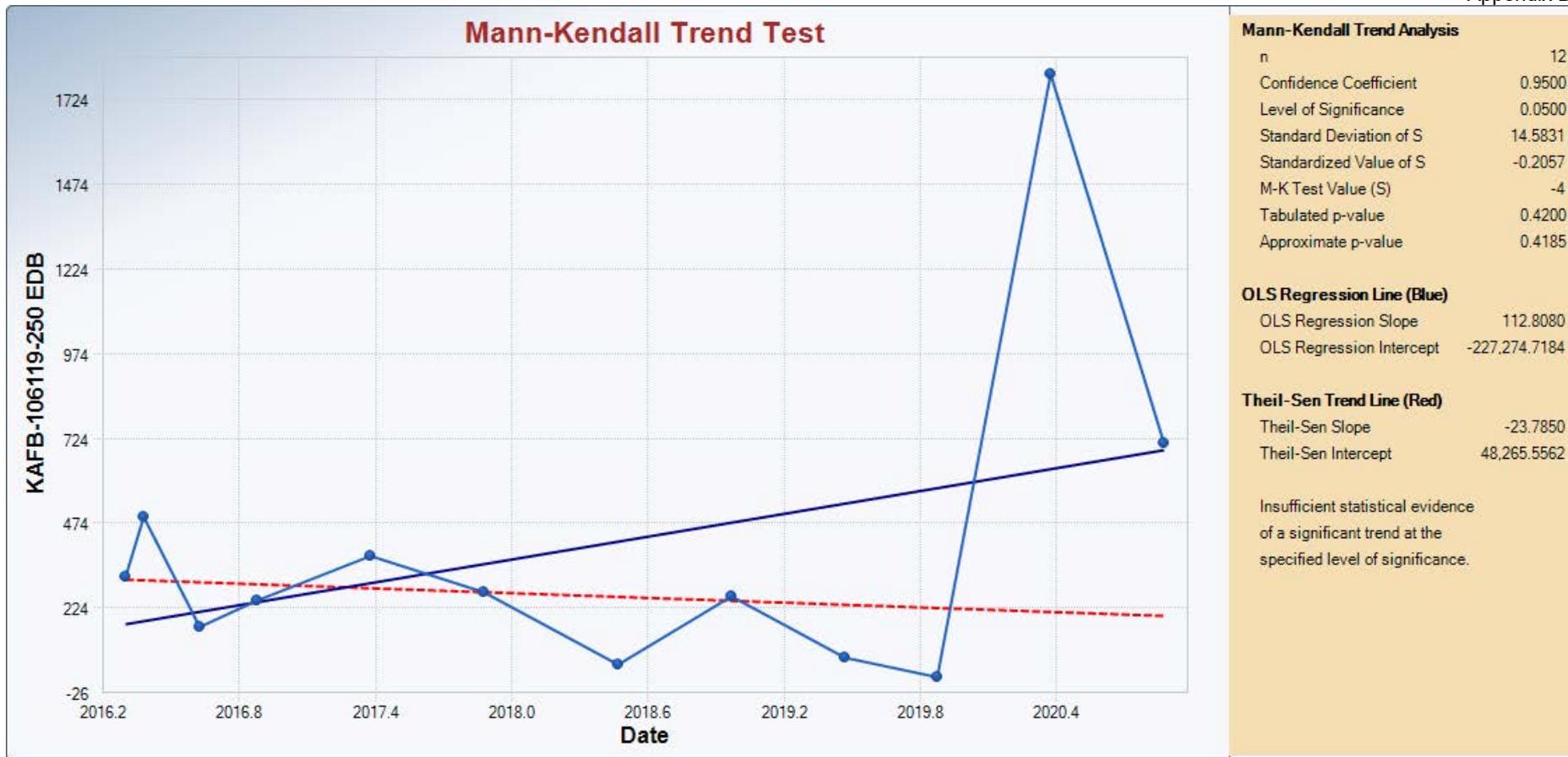
Statistically significant evidence of a decreasing trend at the specified level of significance.

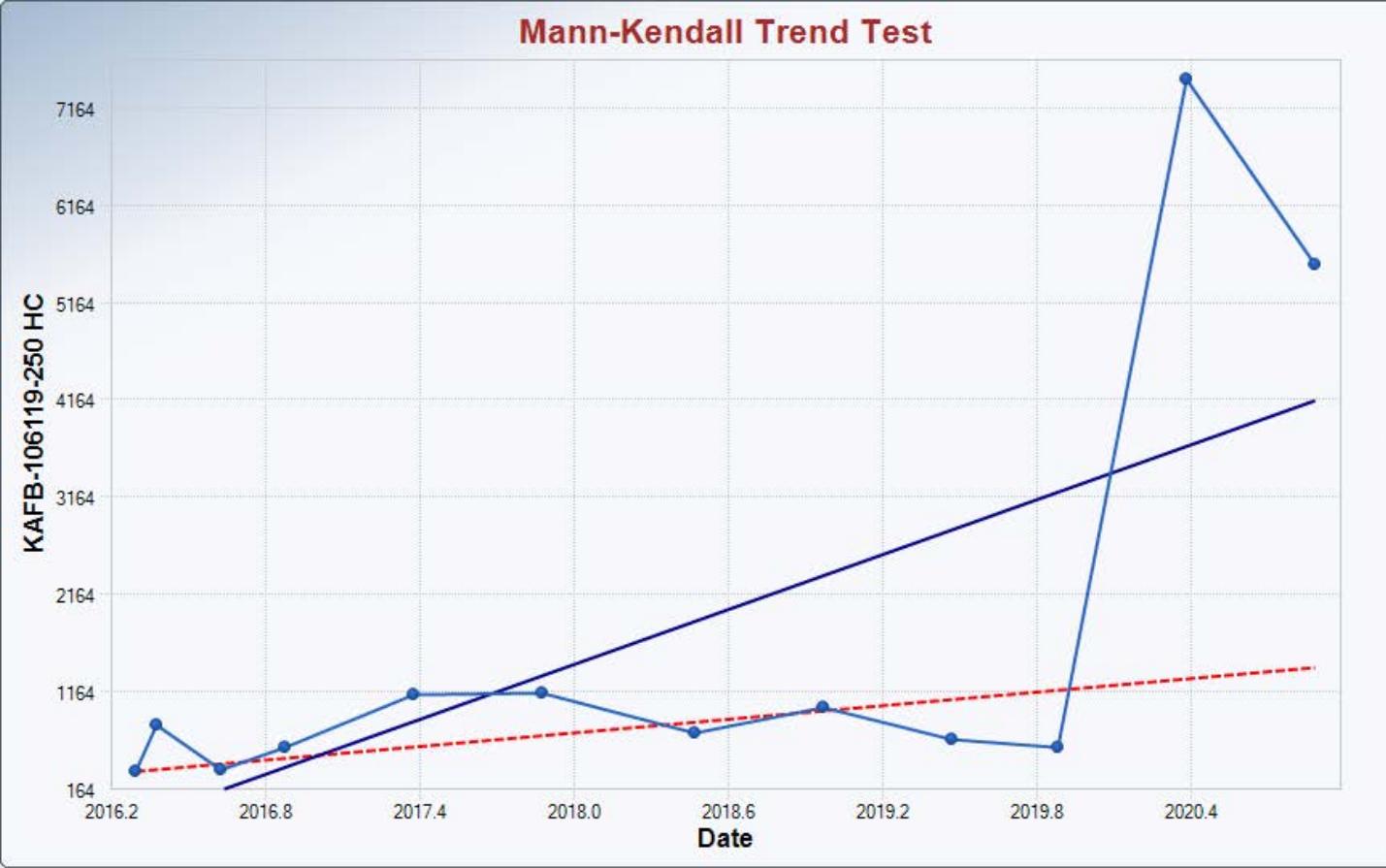




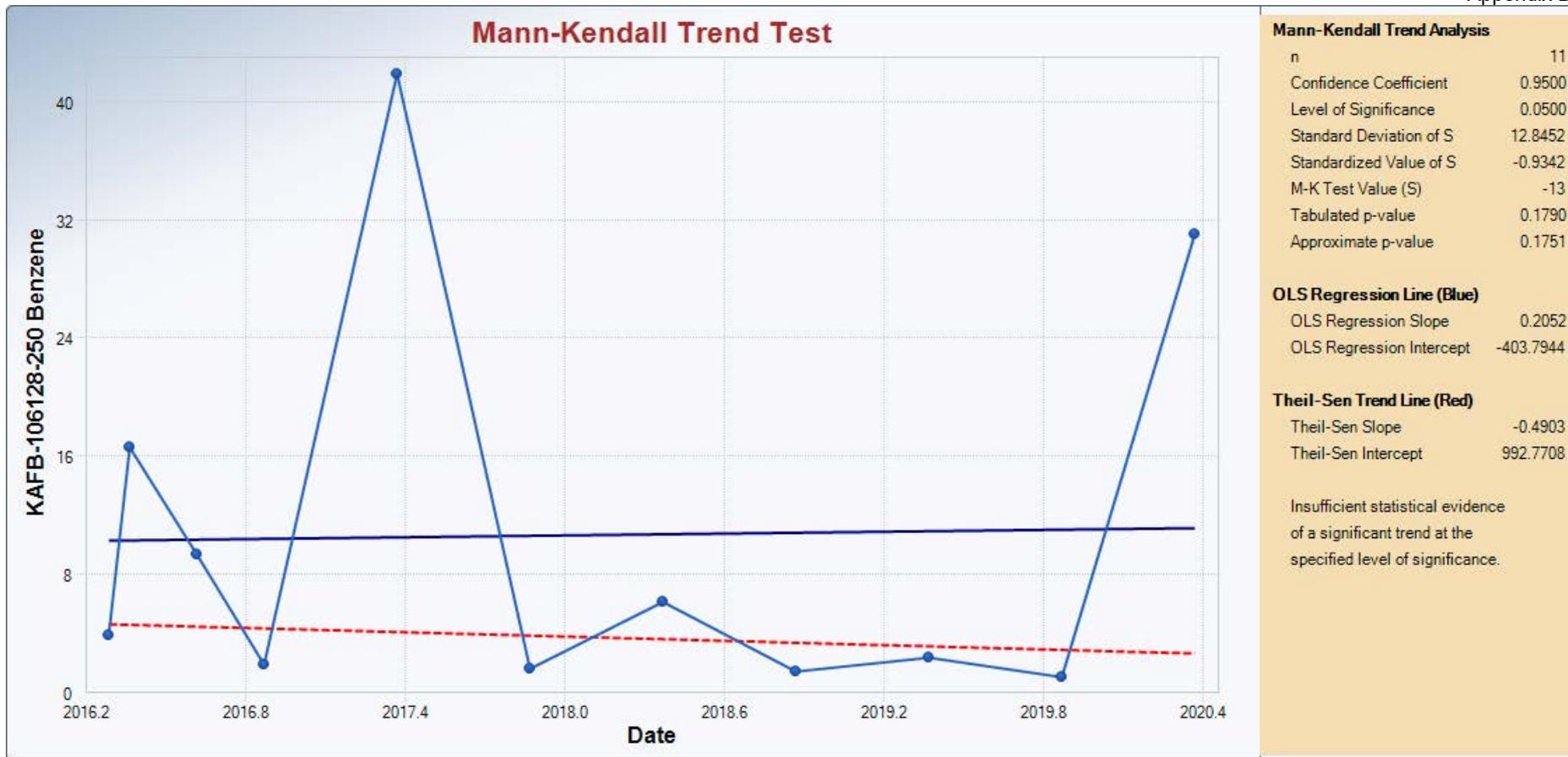


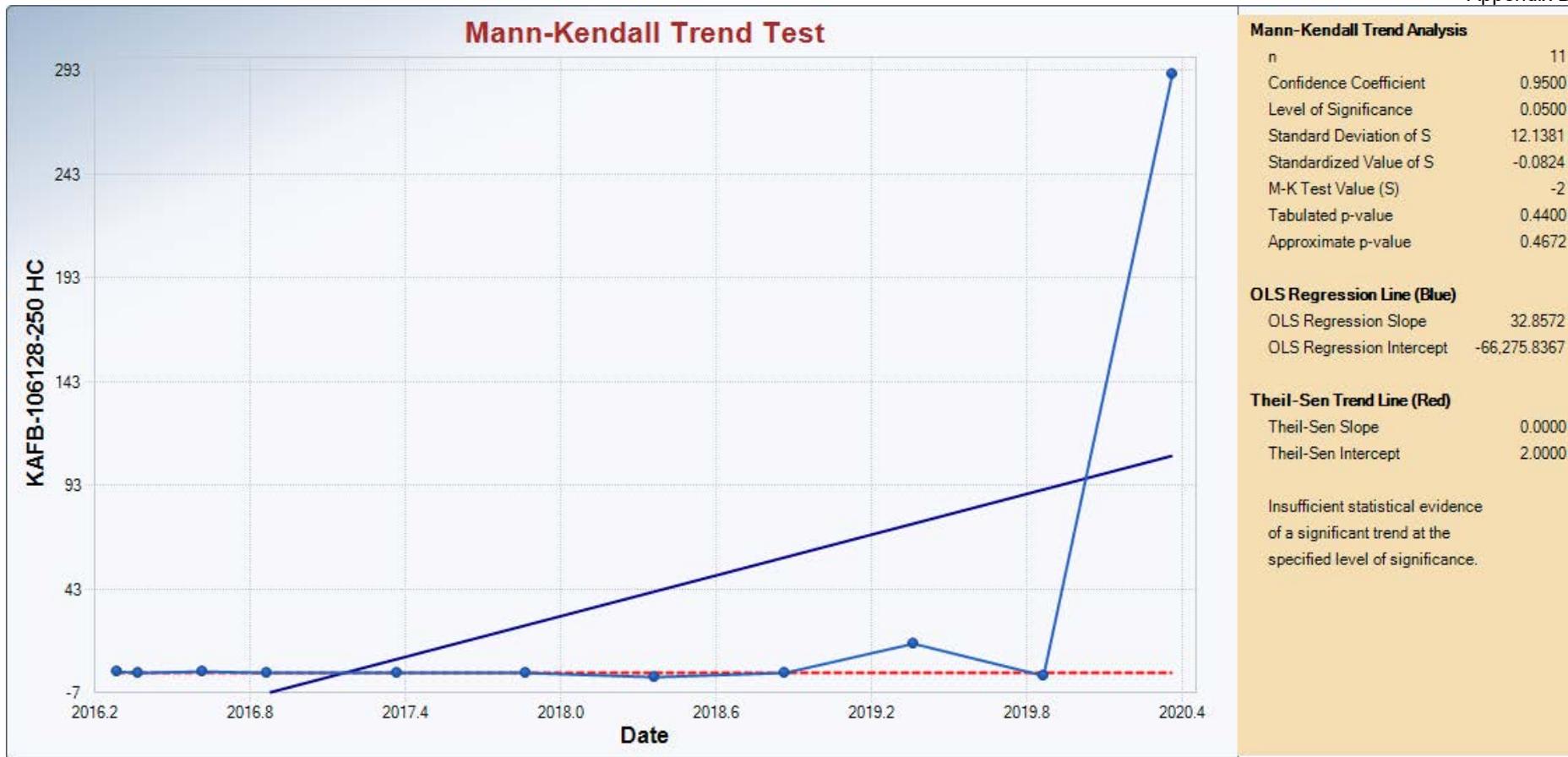


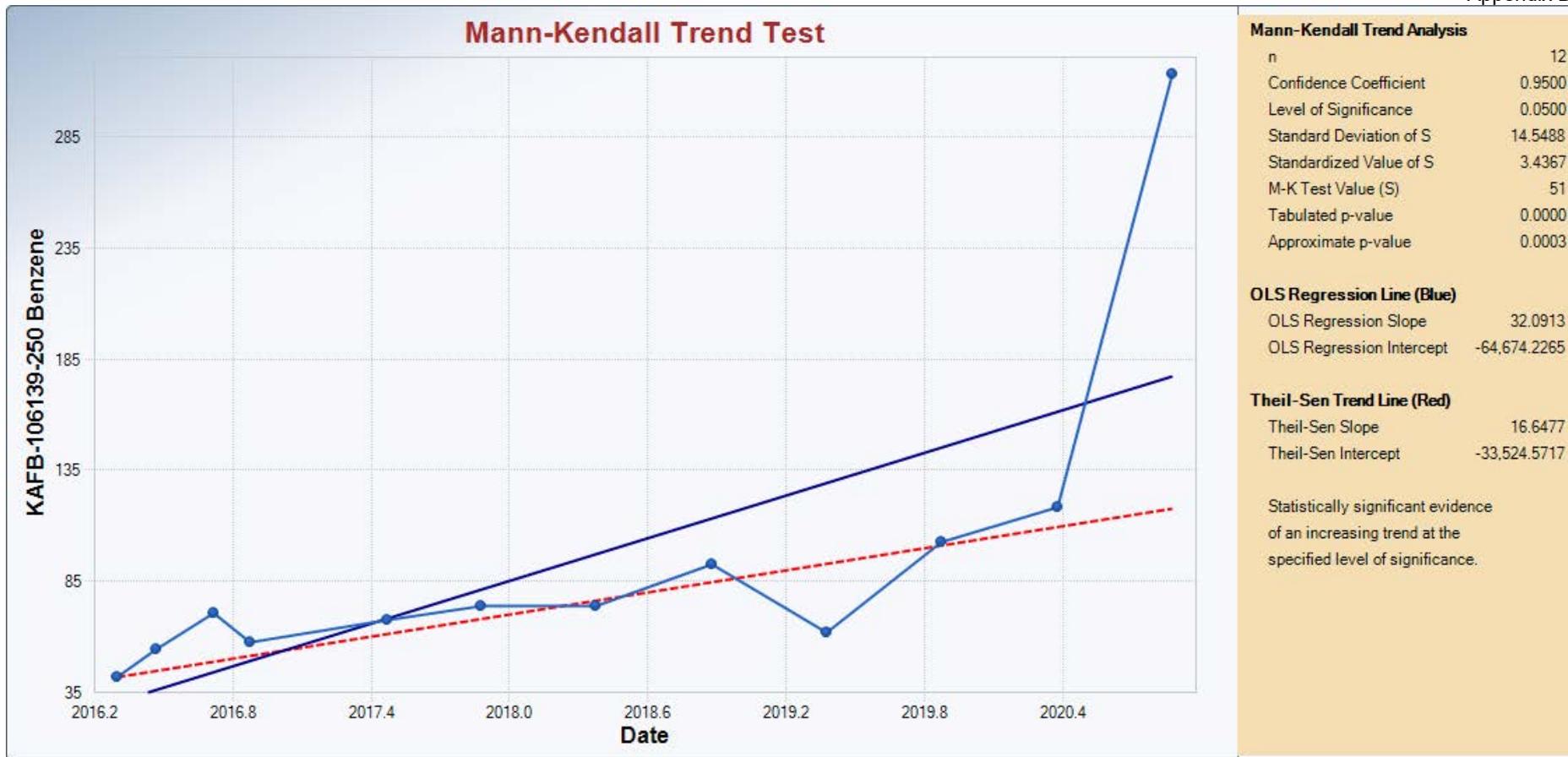


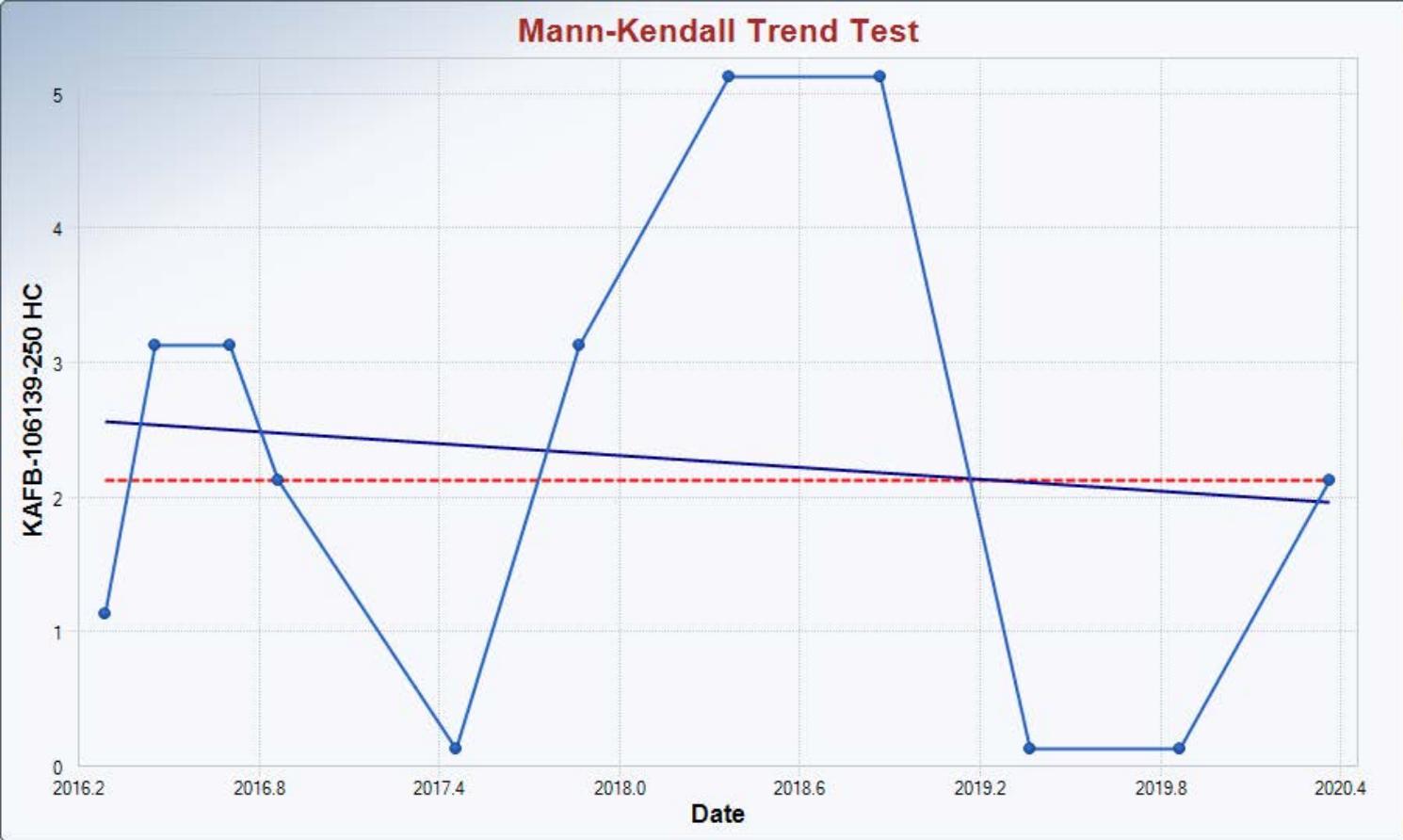


Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	1.8515
M-K Test Value (S)	28
Tabulated p-value	0.0310
Approximate p-value	0.0321
OLS Regression Line (Blue)	
OLS Regression Slope	946.8773
OLS Regression Intercept	-1,909,326.1491
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	233.4906
Theil-Sen Intercept	-470,433.7912
Statistically significant evidence of an increasing trend at the specified level of significance.	









Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.4766
Standardized Value of S	-0.1603
M-K Test Value (S)	-3
Tabulated p-value	0.4400
Approximate p-value	0.4363

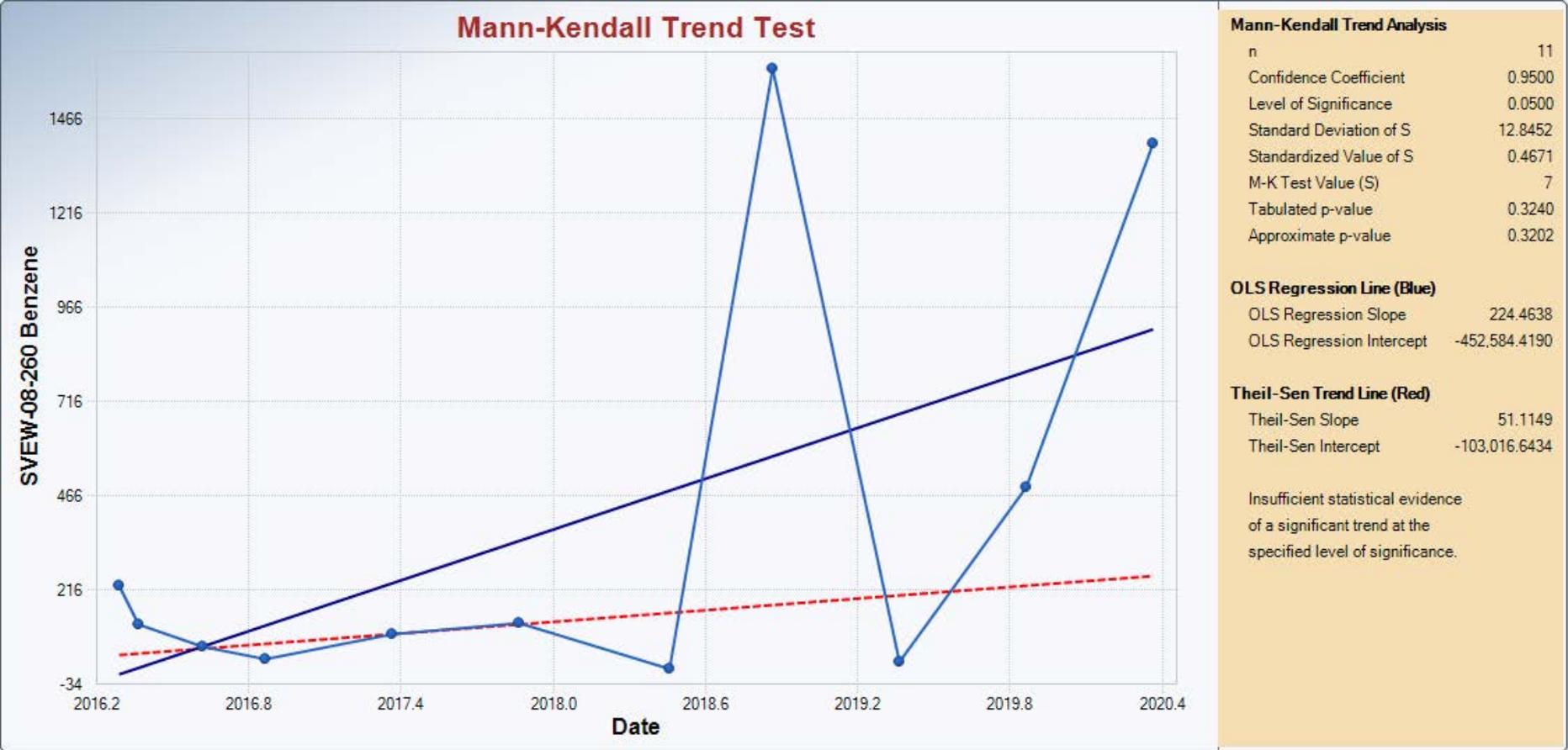
  

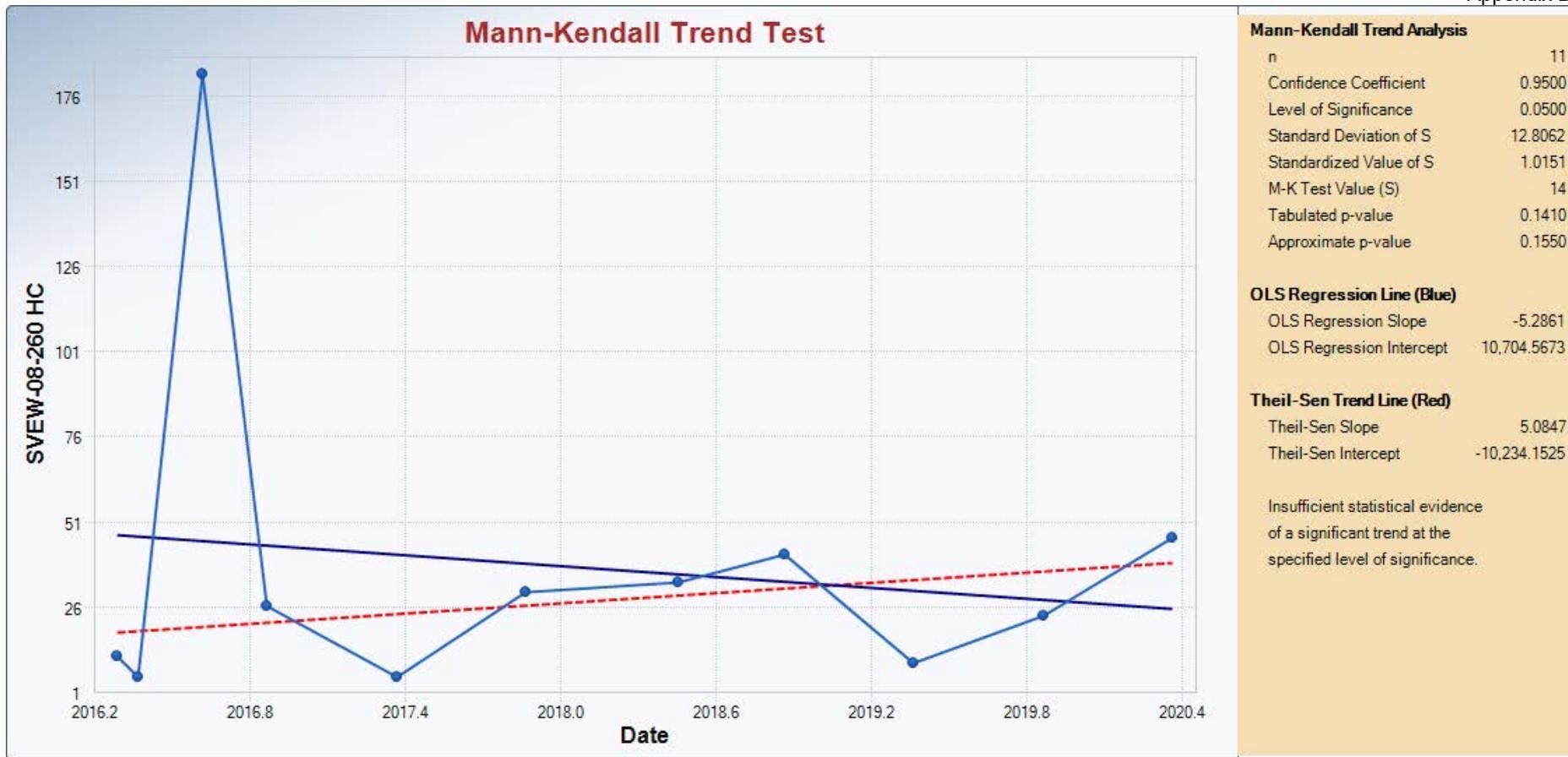
OLS Regression Line (Blue)	
OLS Regression Slope	-0.1481
OLS Regression Intercept	301.1070

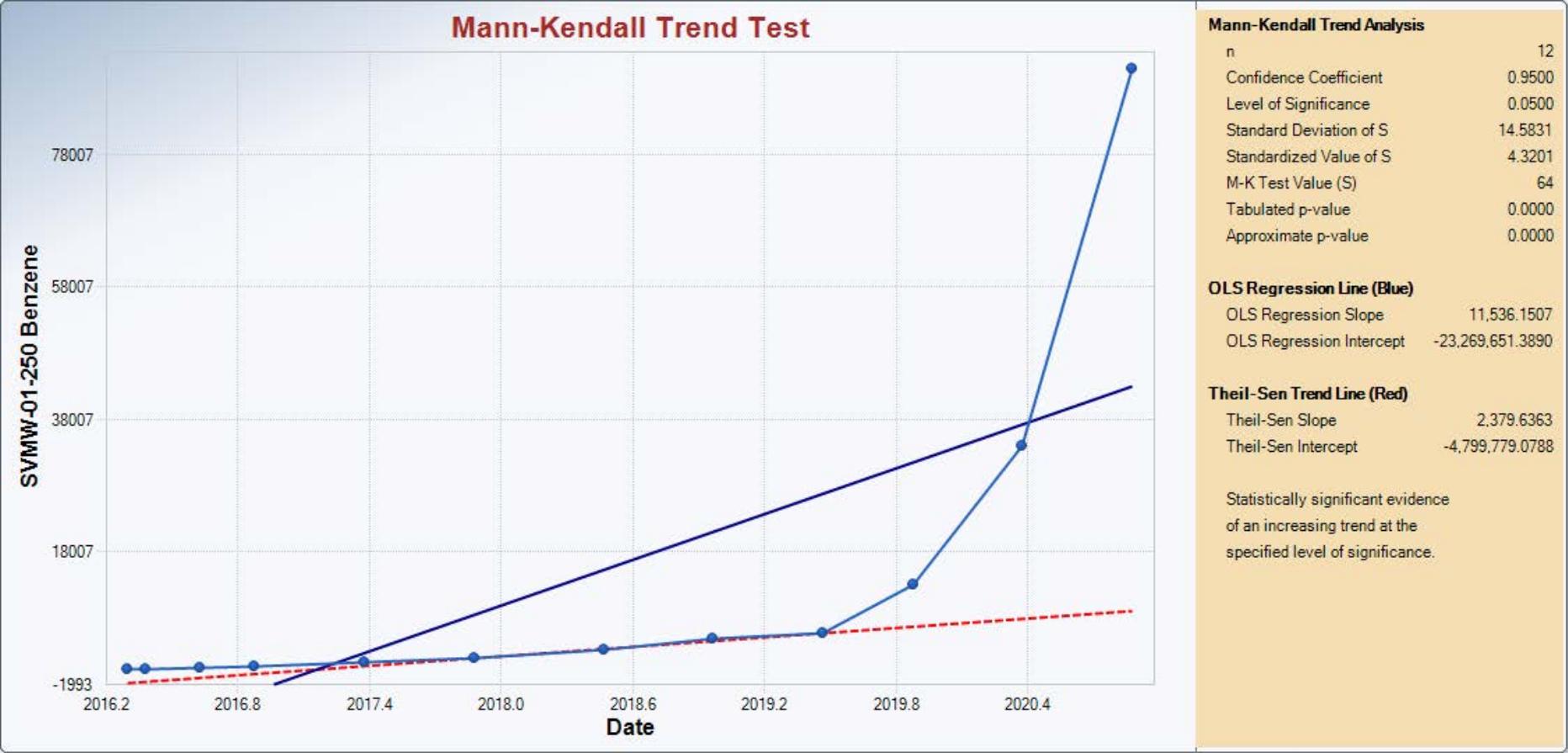
  

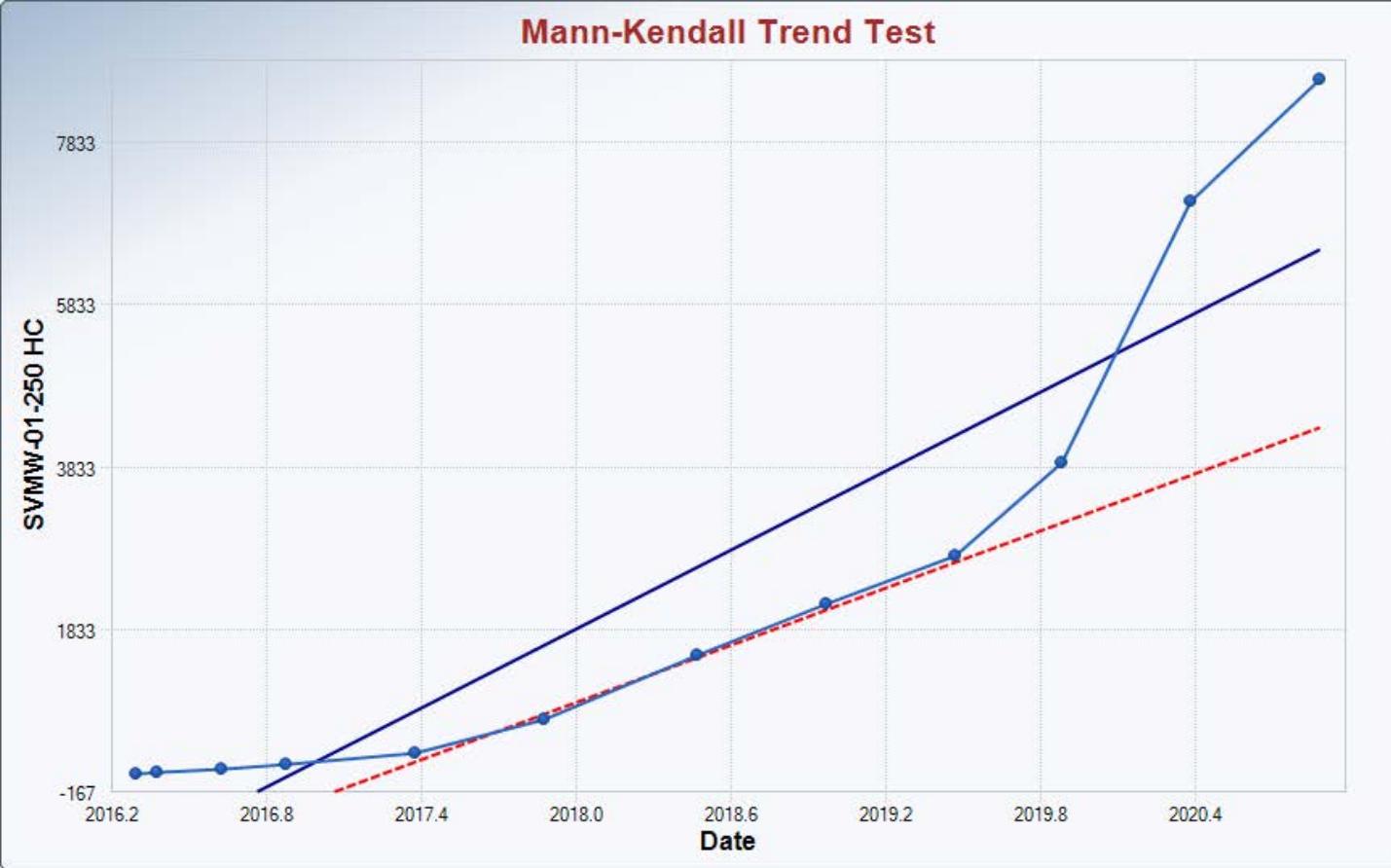
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	0.0000
Theil-Sen Intercept	2.0000

Insufficient statistical evidence of a significant trend at the specified level of significance.









Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	4.4572
M-K Test Value (S)	66
Tabulated p-value	0.0000
Approximate p-value	0.0000

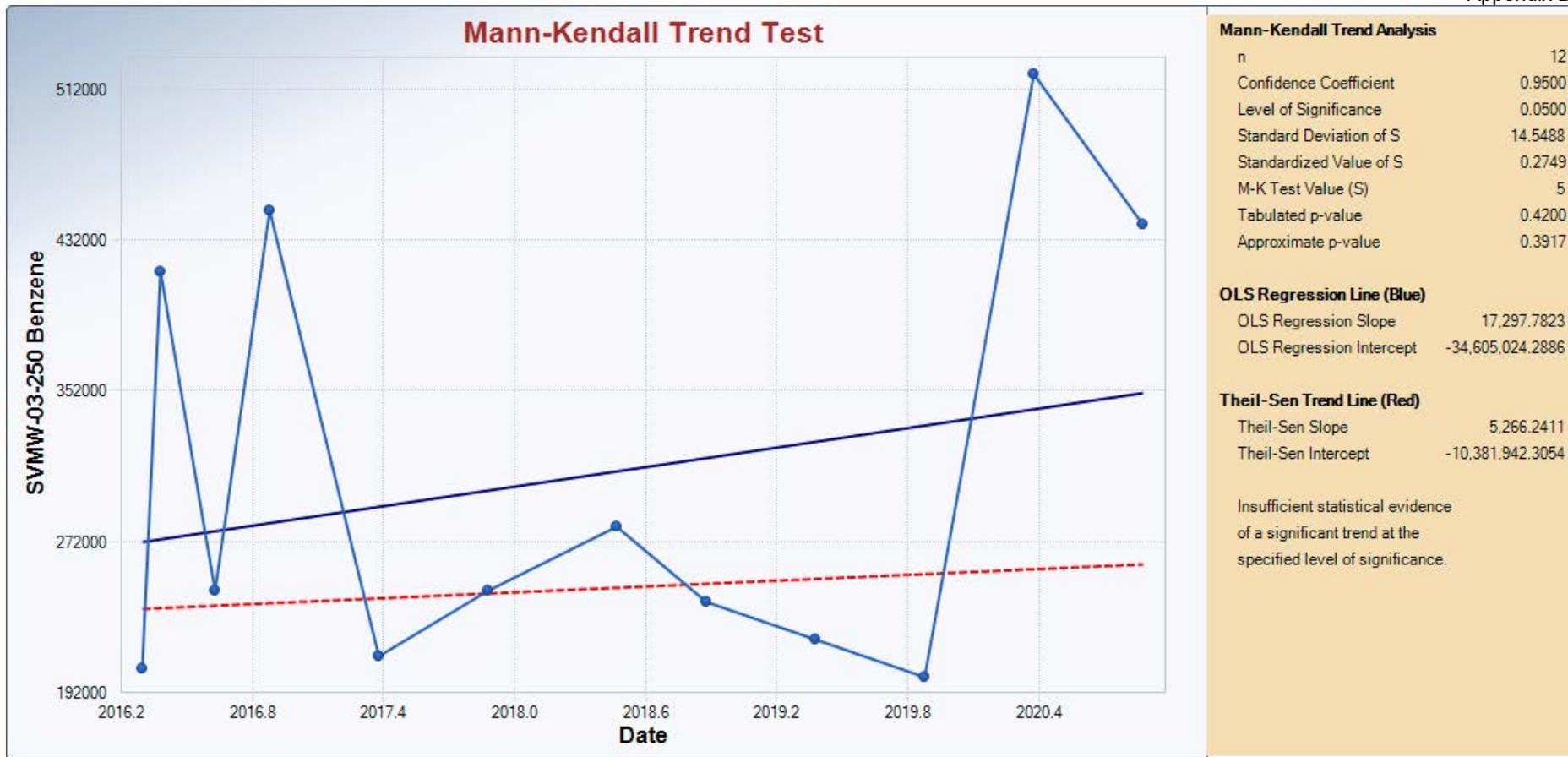
  

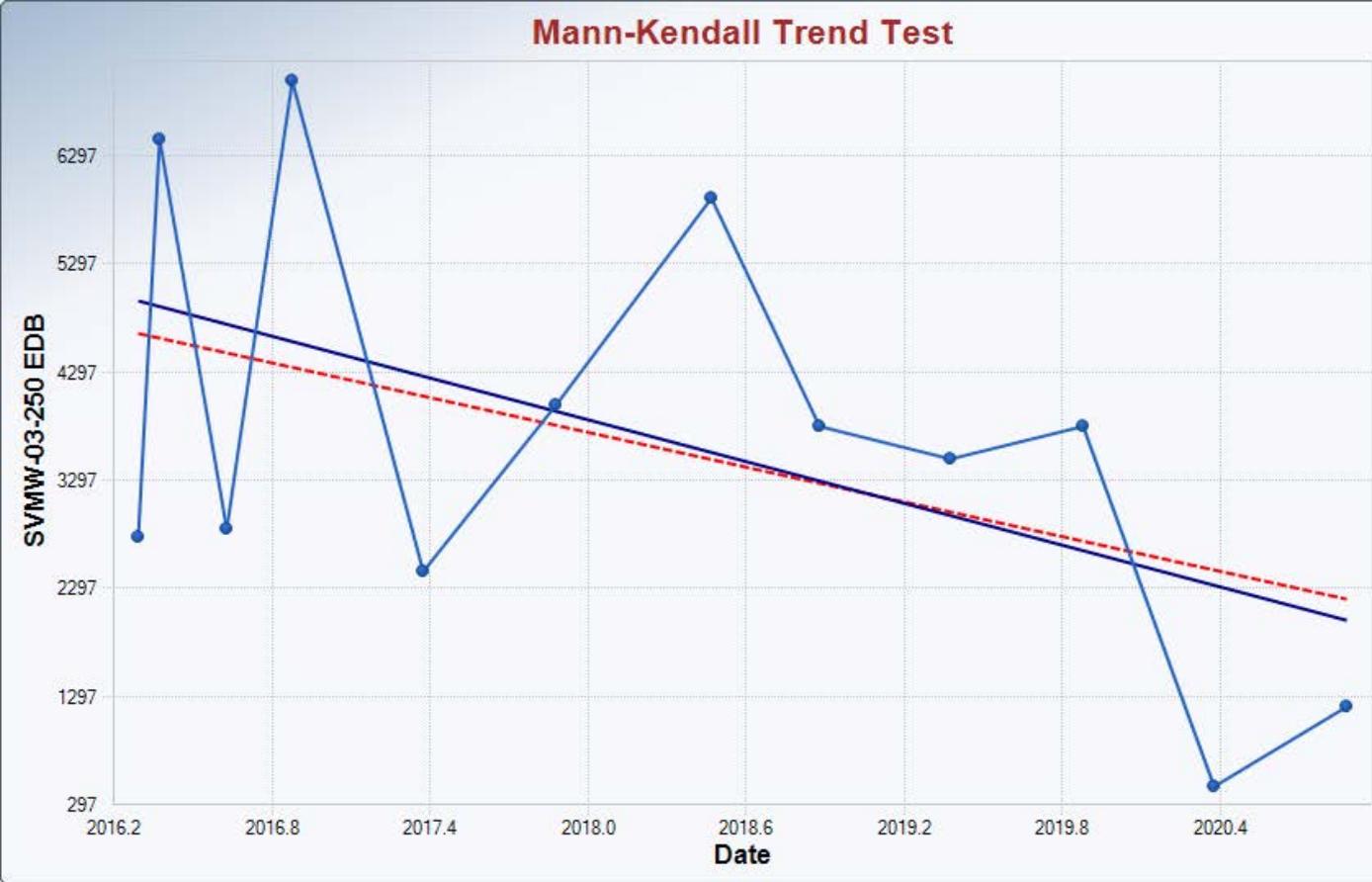
OLS Regression Line (Blue)	
OLS Regression Slope	1,630.6693
OLS Regression Intercept	-3,288,800.4071

Theil-Sen Trend Line (Red)	
Theil-Sen Slope	1,183.0144
Theil-Sen Intercept	-2,386,354.3433

Statistically significant evidence of an increasing trend at the specified level of significance.





**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5488
Standardized Value of S	-1.2372
M-K Test Value (S)	-19
Tabulated p-value	0.1250
Approximate p-value	0.1080

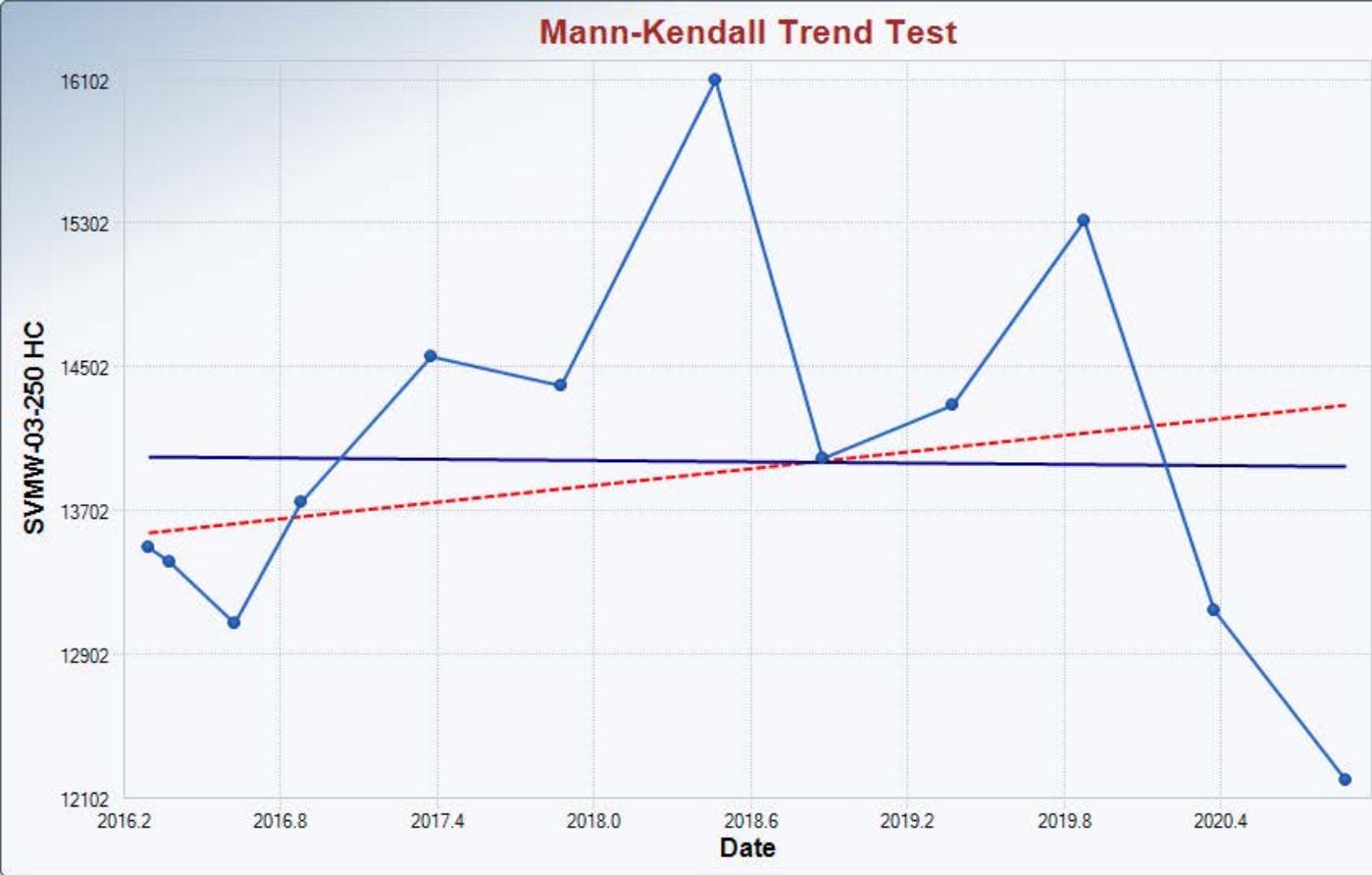
**OLS Regression Line (Blue)**

OLS Regression Slope	-647.6250
OLS Regression Intercept	1,310,735.0369

**Theil-Sen Trend Line (Red)**

Theil-Sen Slope	-538.7804
Theil-Sen Intercept	1,090,976.2437

Insufficient statistical evidence of a significant trend at the specified level of significance.



**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	0.2057
M-K Test Value (S)	4
Tabulated p-value	0.4200
Approximate p-value	0.4185

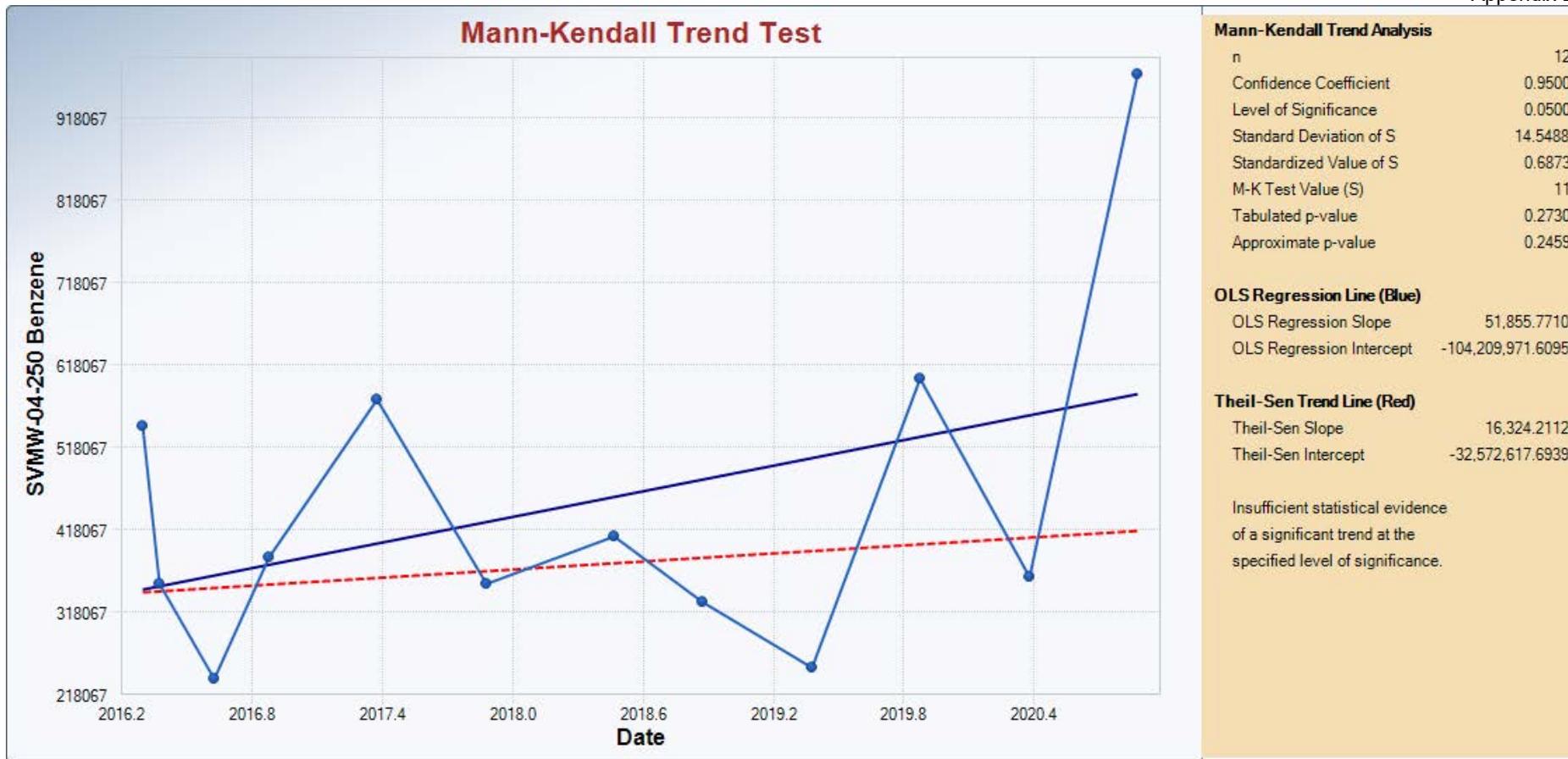
**OLS Regression Line (Blue)**

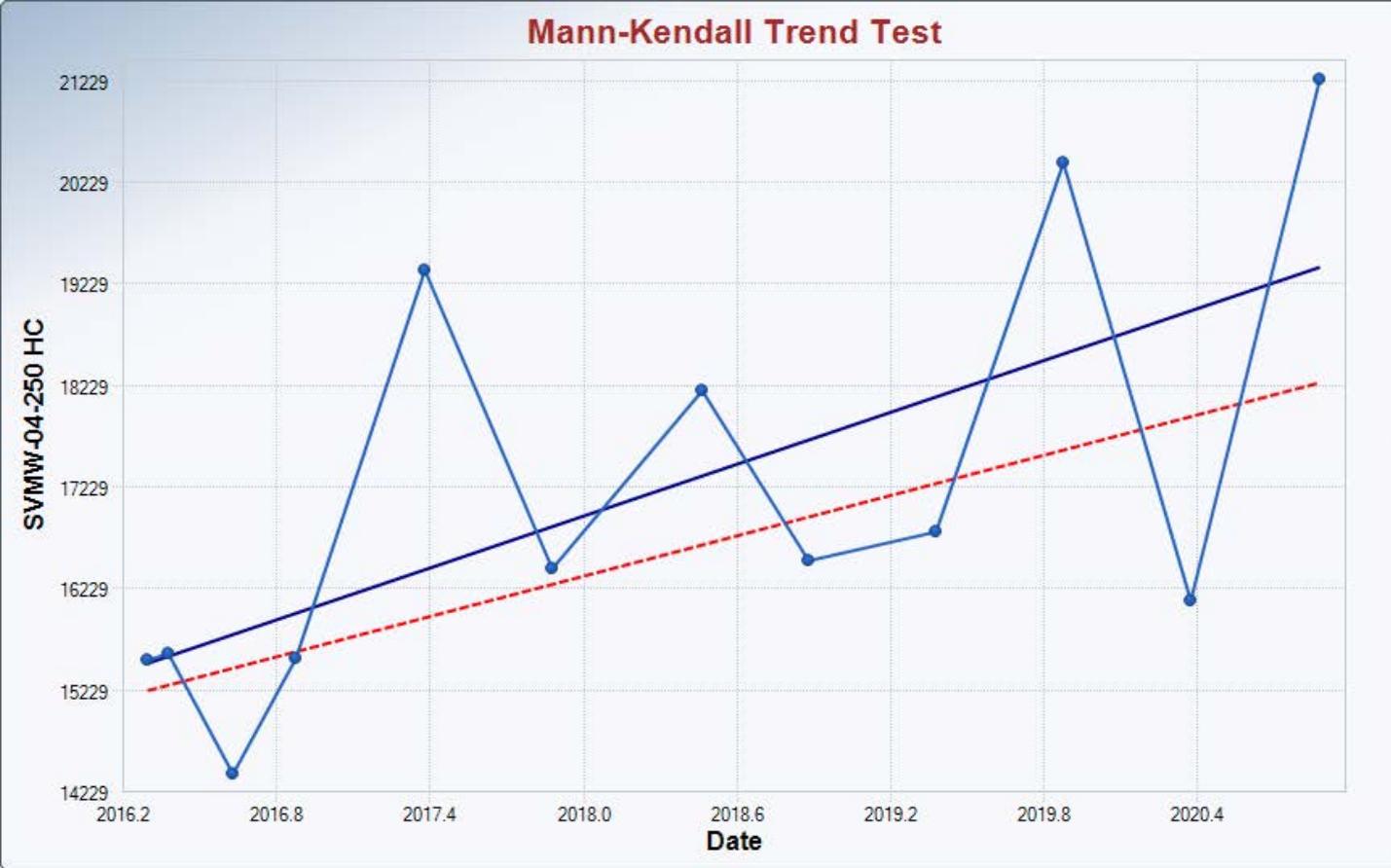
OLS Regression Slope	-11.5479
OLS Regression Intercept	37,285.4685

**Theil-Sen Trend Line (Red)**

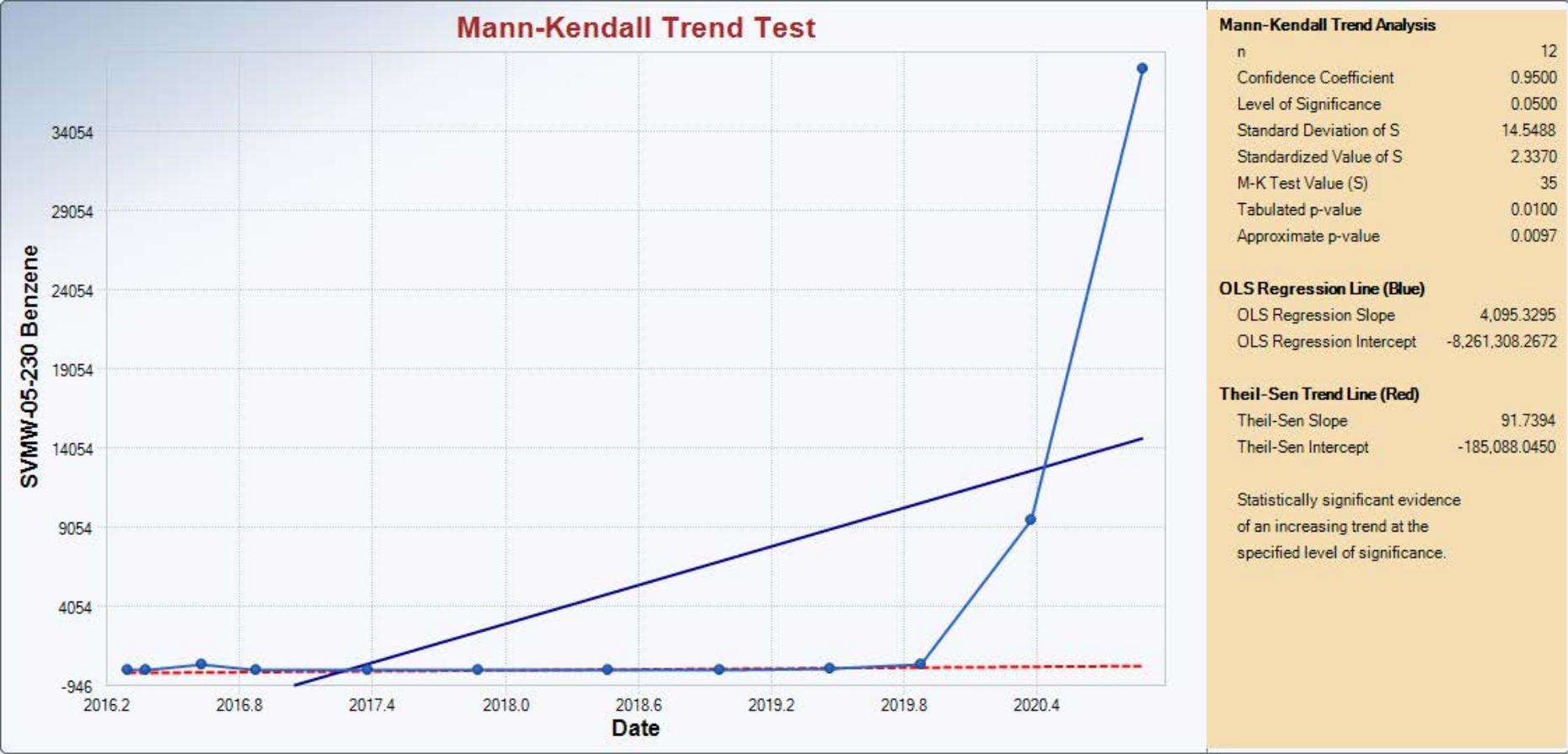
Theil-Sen Slope	154.9612
Theil-Sen Intercept	-298,861.1531

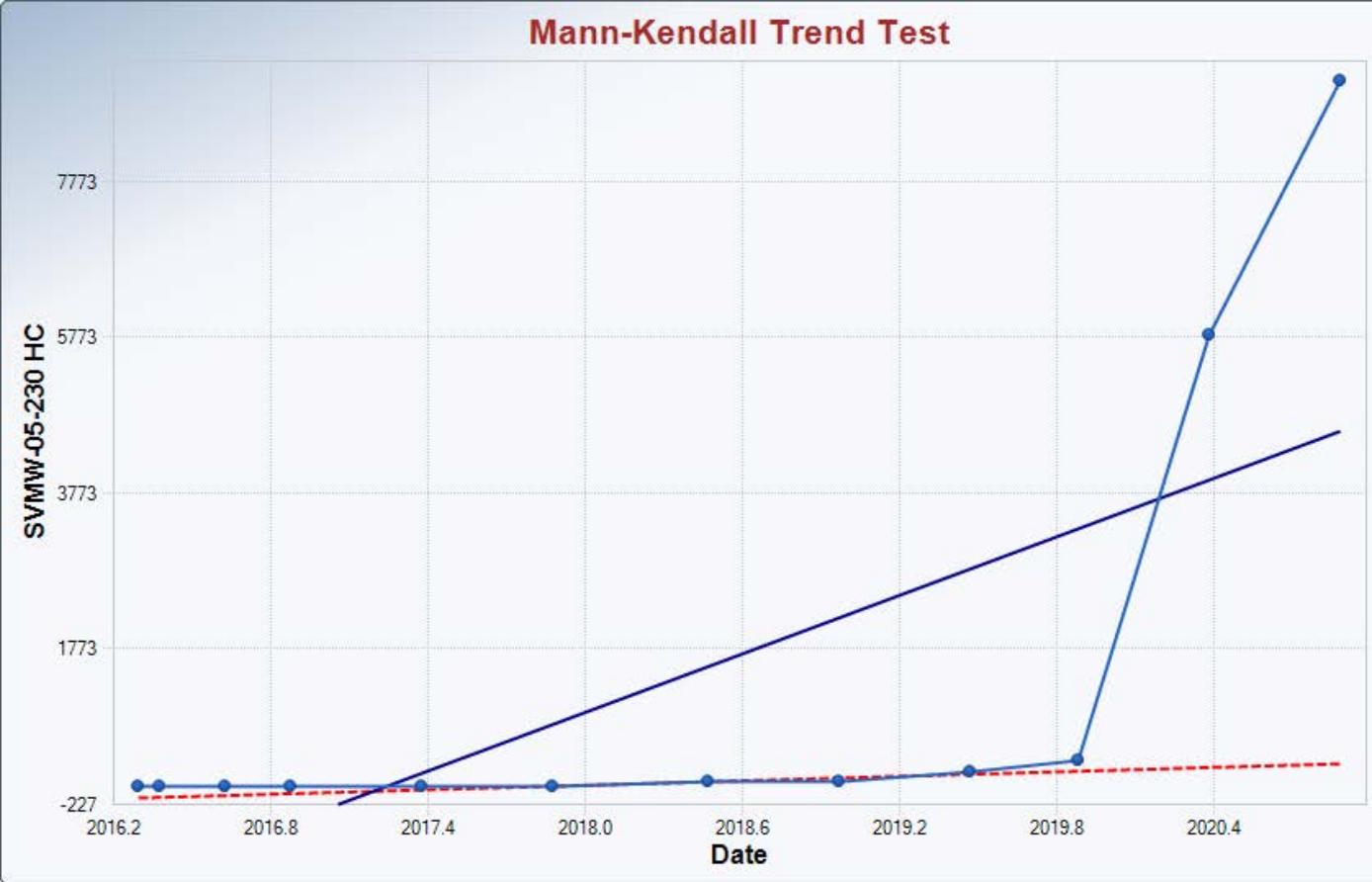
Insufficient statistical evidence of a significant trend at the specified level of significance.





Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	2.4000
M-K Test Value (S)	36
Tabulated p-value	0.0070
Approximate p-value	0.0082
OLS Regression Line (Blue)	
OLS Regression Slope	853.0388
OLS Regression Intercept	-1,704,453.1686
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	659.8101
Theil-Sen Intercept	-1,315,114.3117
Statistically significant evidence of an increasing trend at the specified level of significance.	





Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5488
Standardized Value of S	3.4367
M-K Test Value (S)	51
Tabulated p-value	0.0000
Approximate p-value	0.0003

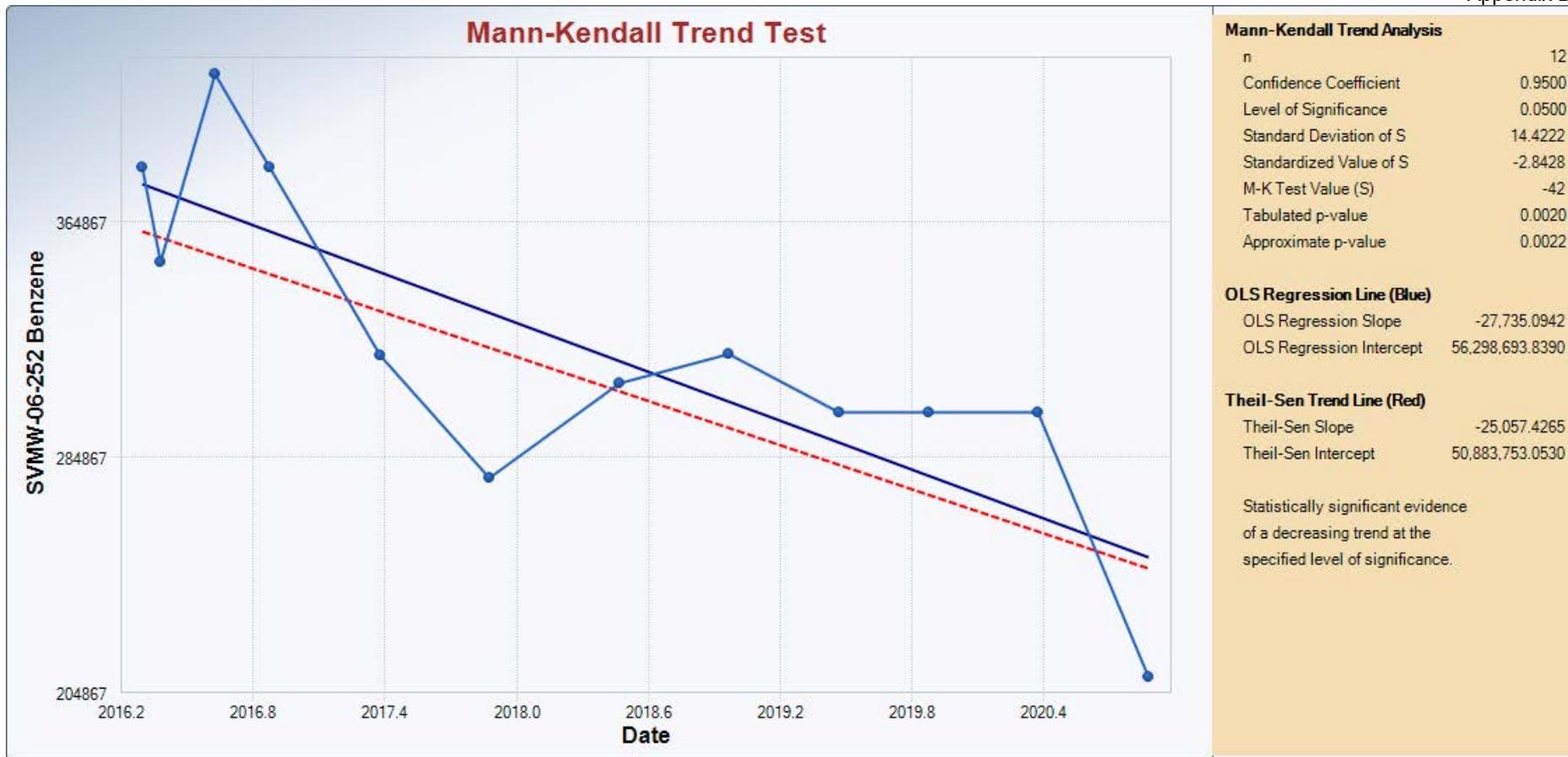
  

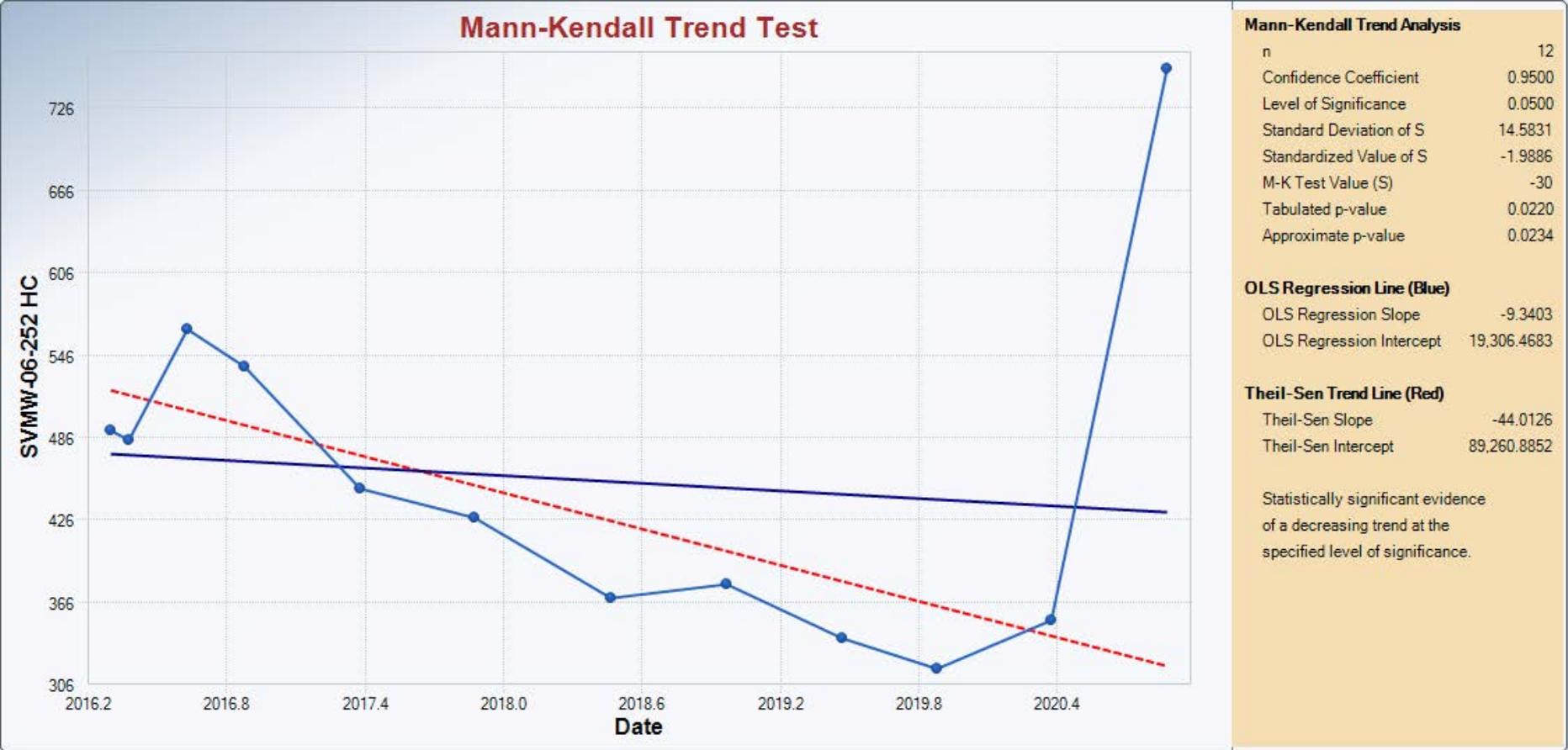
OLS Regression Line (Blue)	
OLS Regression Slope	1,261.3464
OLS Regression Intercept	-2,544,406.5094

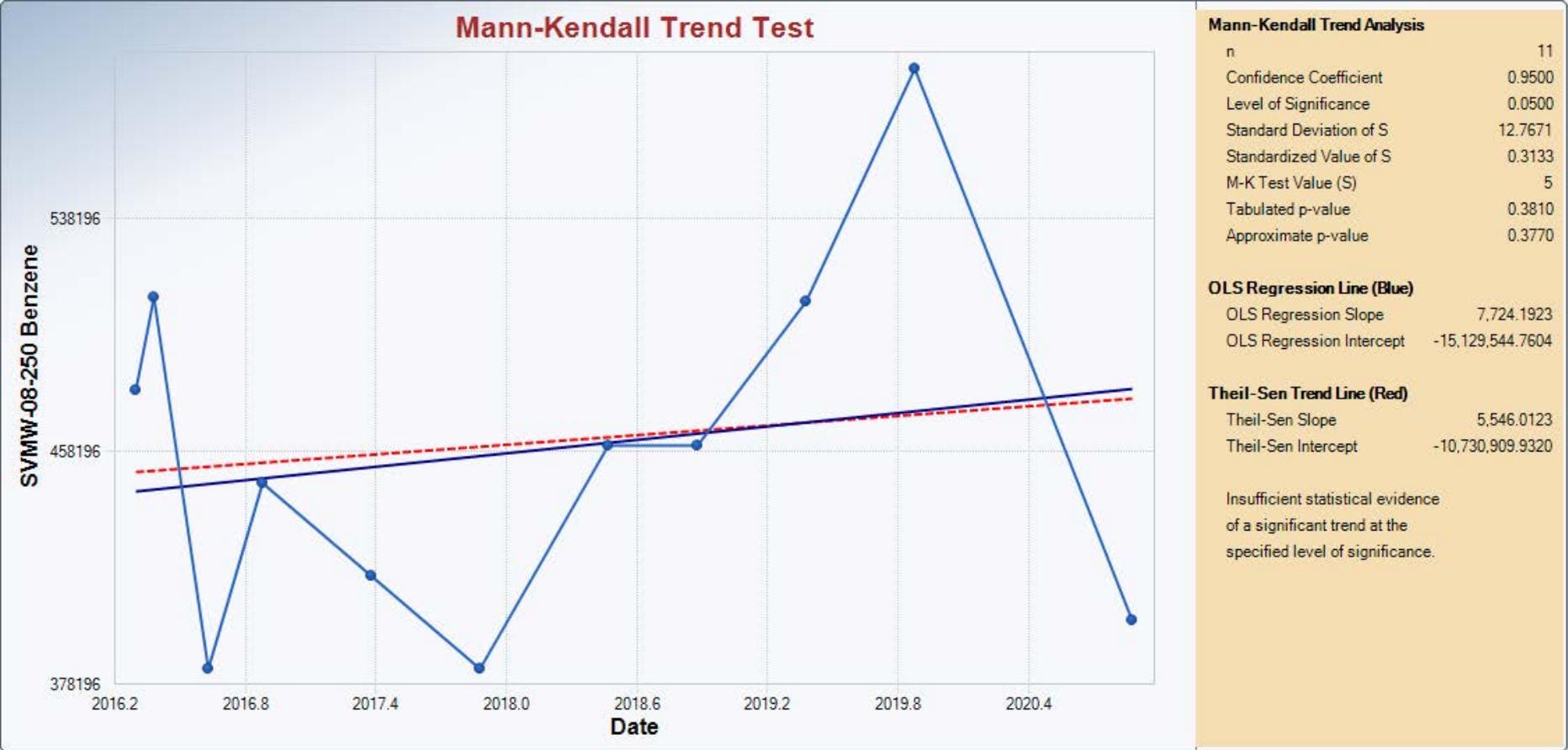
  

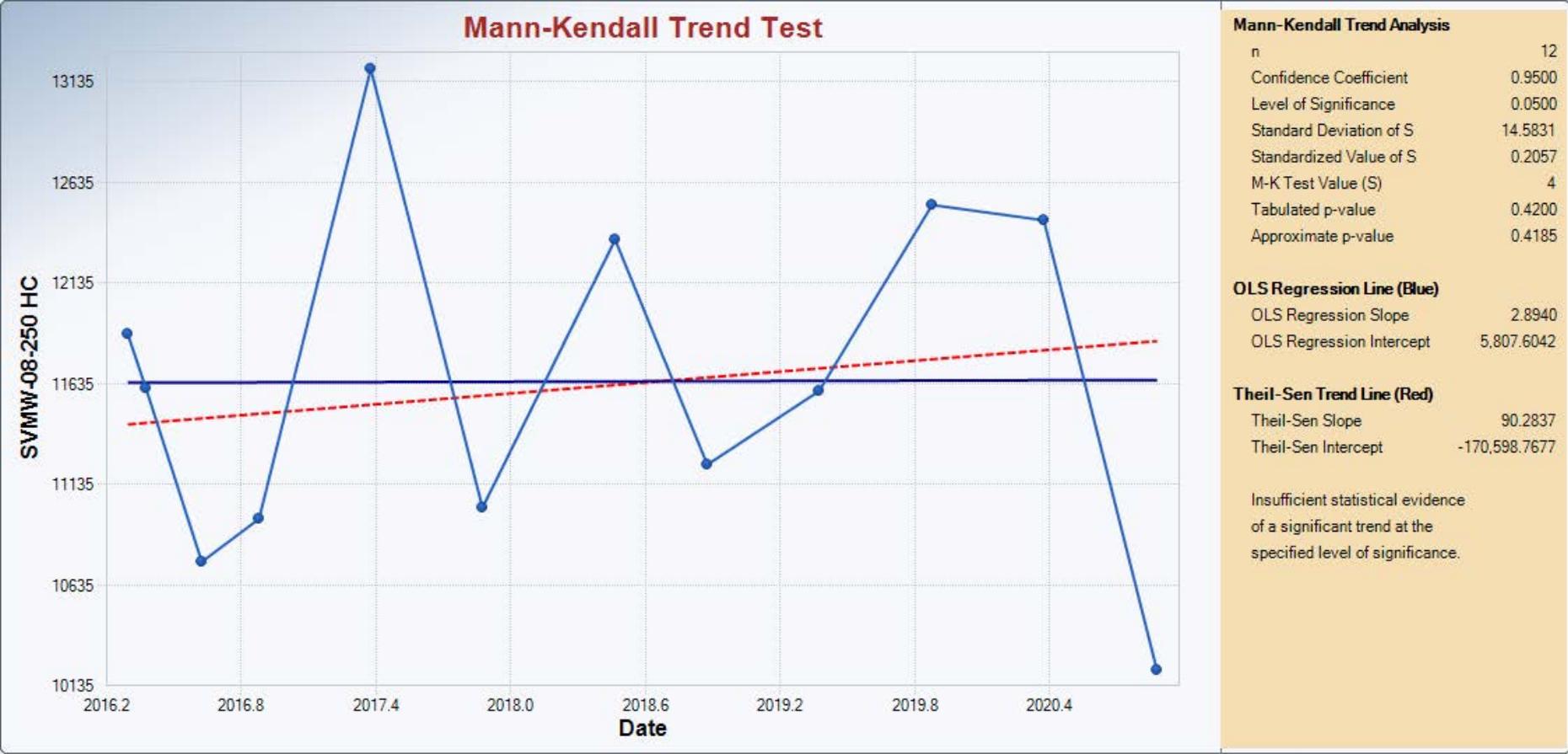
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	97.0576
Theil-Sen Intercept	-195,842.3091

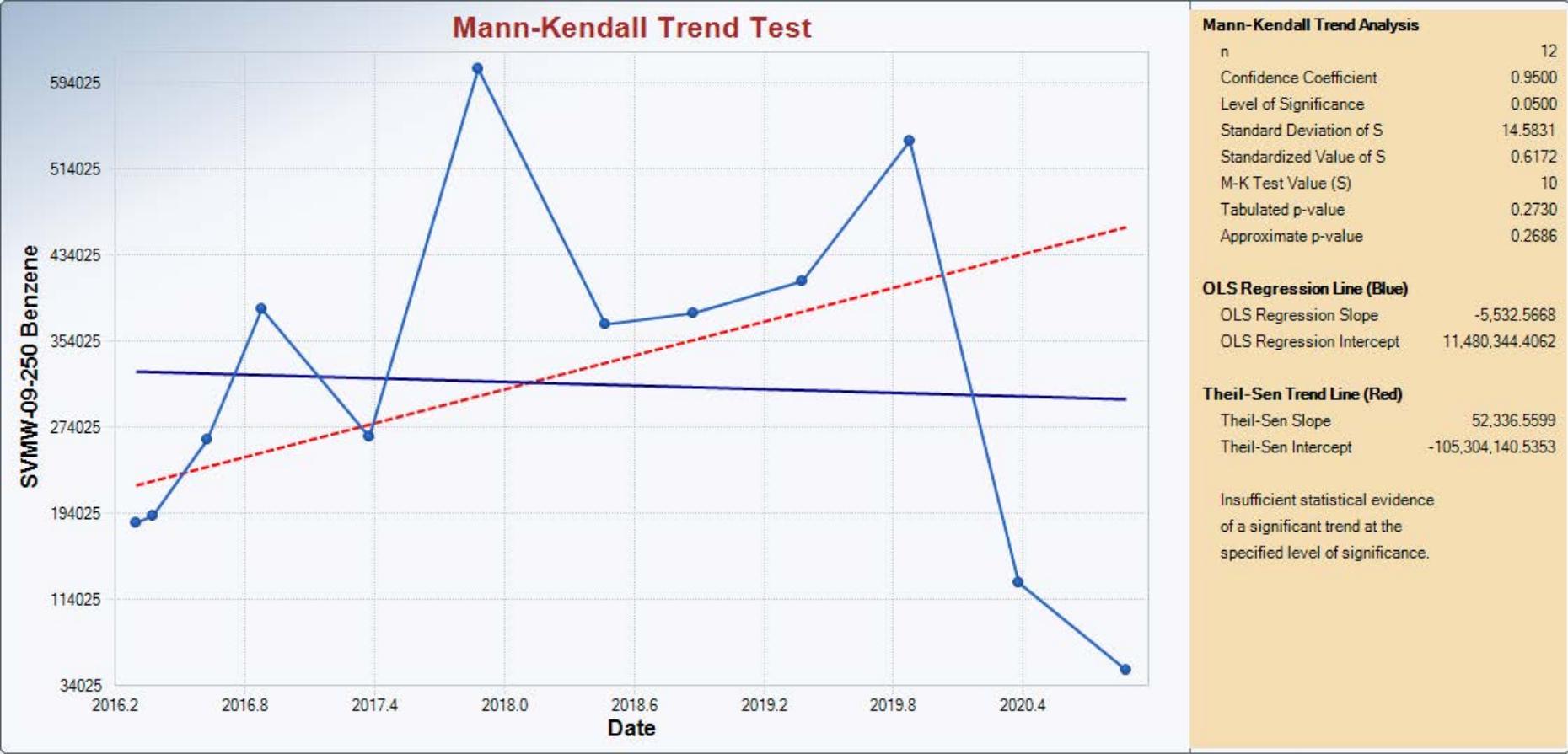
Statistically significant evidence of an increasing trend at the specified level of significance.

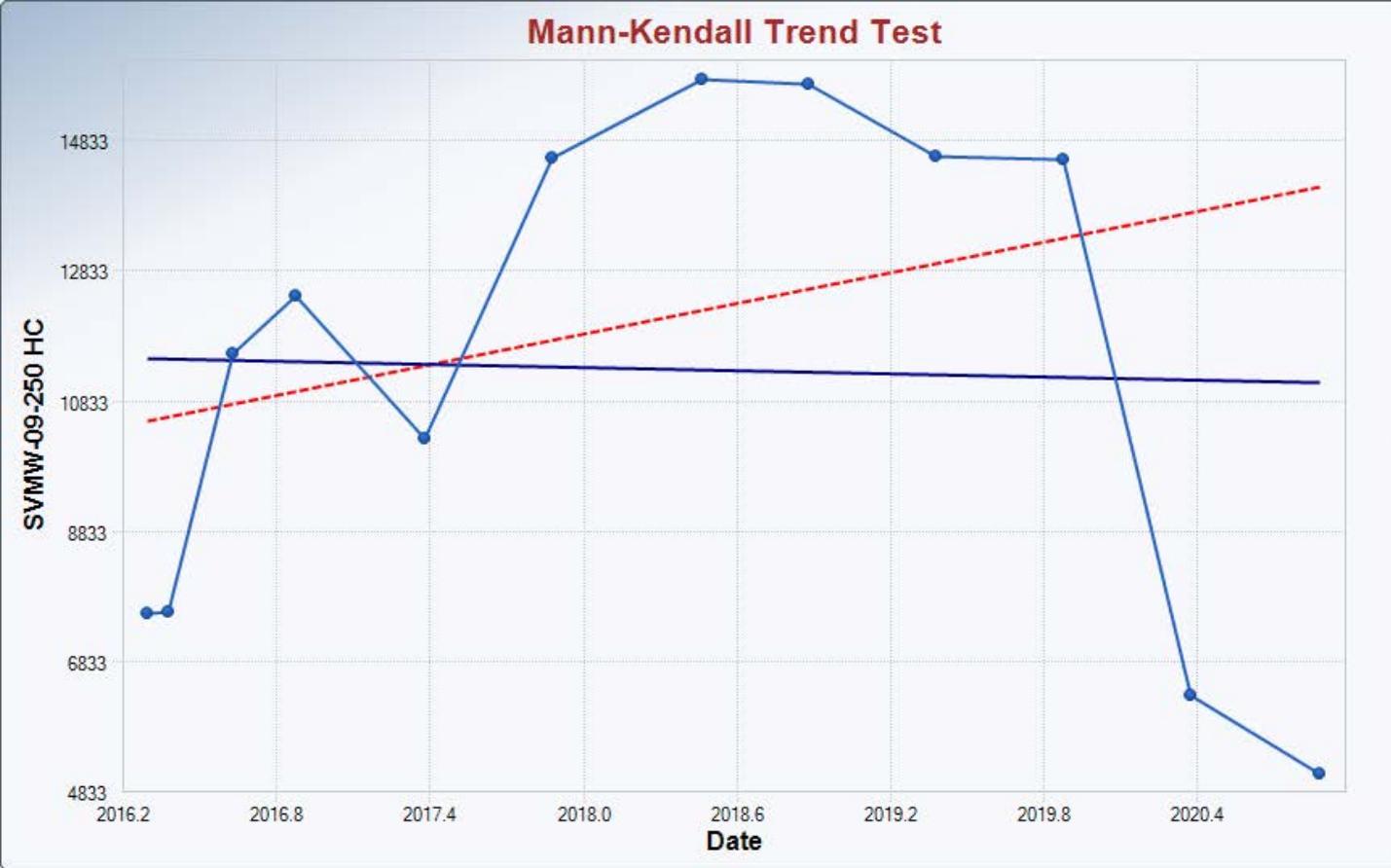












Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	0.3429
M-K Test Value (S)	6
Tabulated p-value	0.3690
Approximate p-value	0.3659

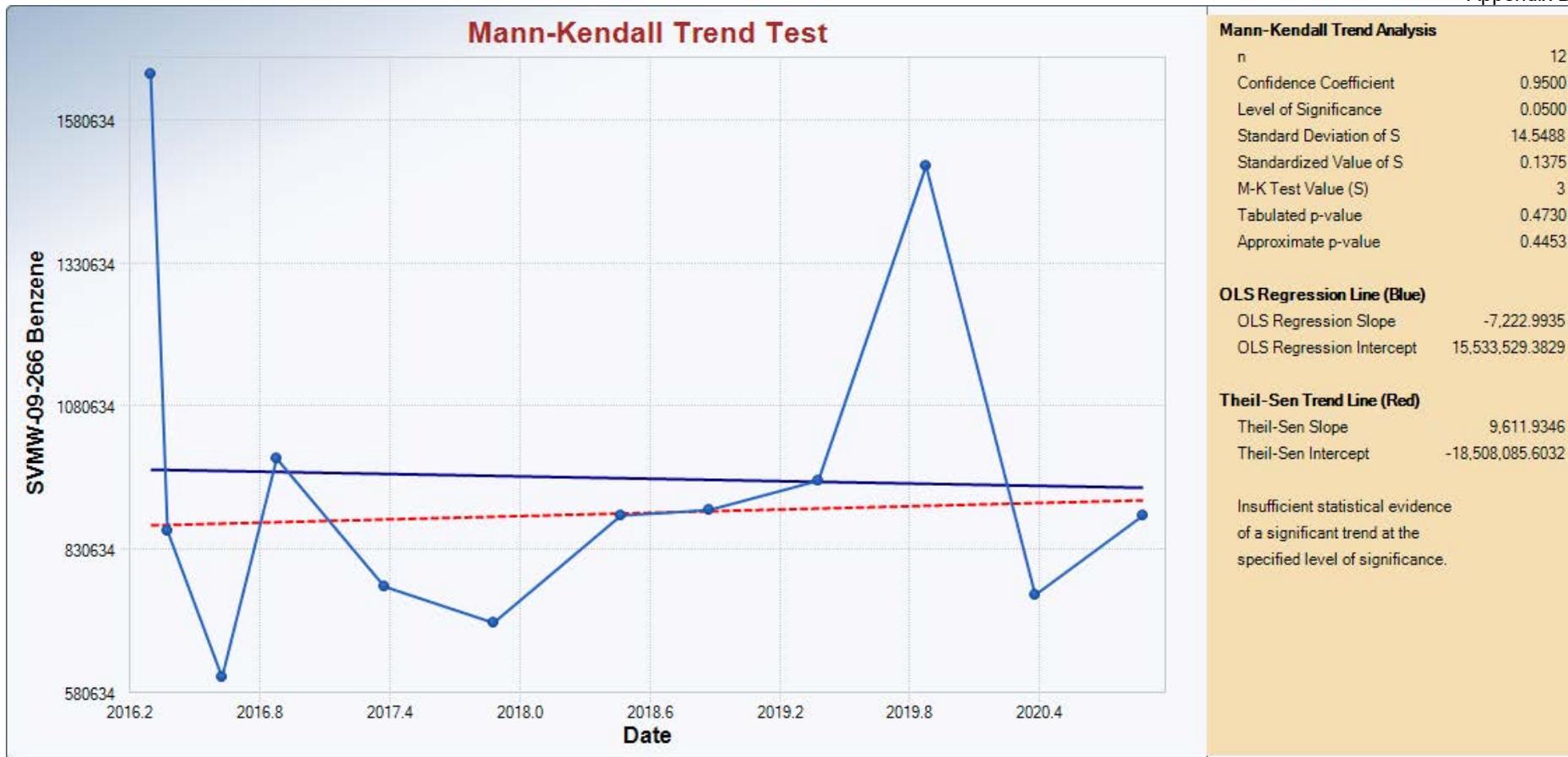
  

OLS Regression Line (Blue)	
OLS Regression Slope	-79.7998
OLS Regression Intercept	172,389.0946

Theil-Sen Trend Line (Red)	
Theil-Sen Slope	783.6667
Theil-Sen Intercept	-1,569,537.2917

Insufficient statistical evidence of a significant trend at the specified level of significance.



### Mann-Kendall Trend Test



**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5488
Standardized Value of S	-1.0997
M-K Test Value (S)	-17
Tabulated p-value	0.1550
Approximate p-value	0.1357

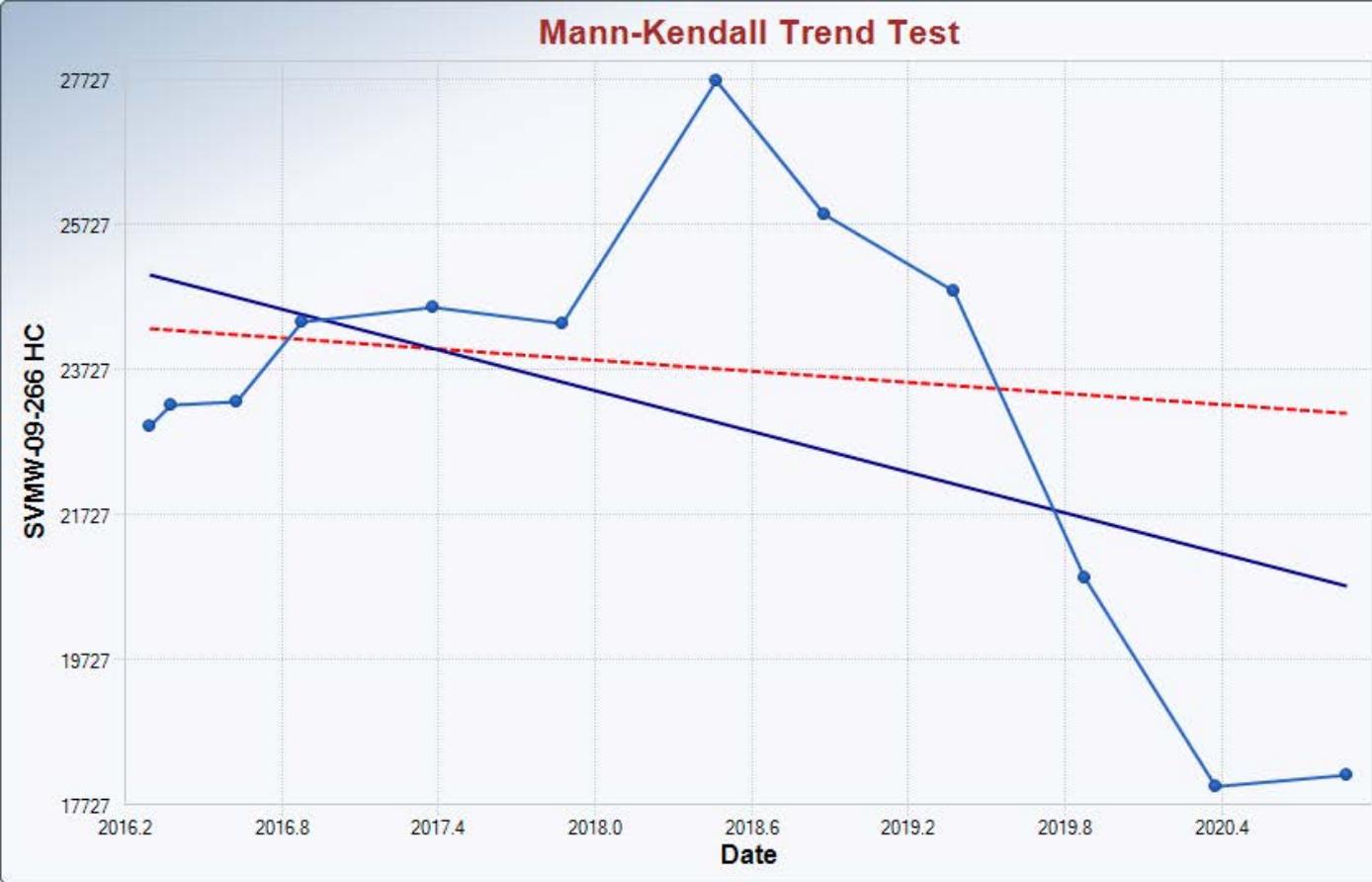
**OLS Regression Line (Blue)**

OLS Regression Slope	-1,177.3870
OLS Regression Intercept	2,384,512.3794

**Theil-Sen Trend Line (Red)**

Theil-Sen Slope	-1,255.0948
Theil-Sen Intercept	2,540,549.6946

Insufficient statistical evidence of a significant trend at the specified level of significance.



**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-0.0686
M-K Test Value (S)	-2
Tabulated p-value	0.4730
Approximate p-value	0.4727

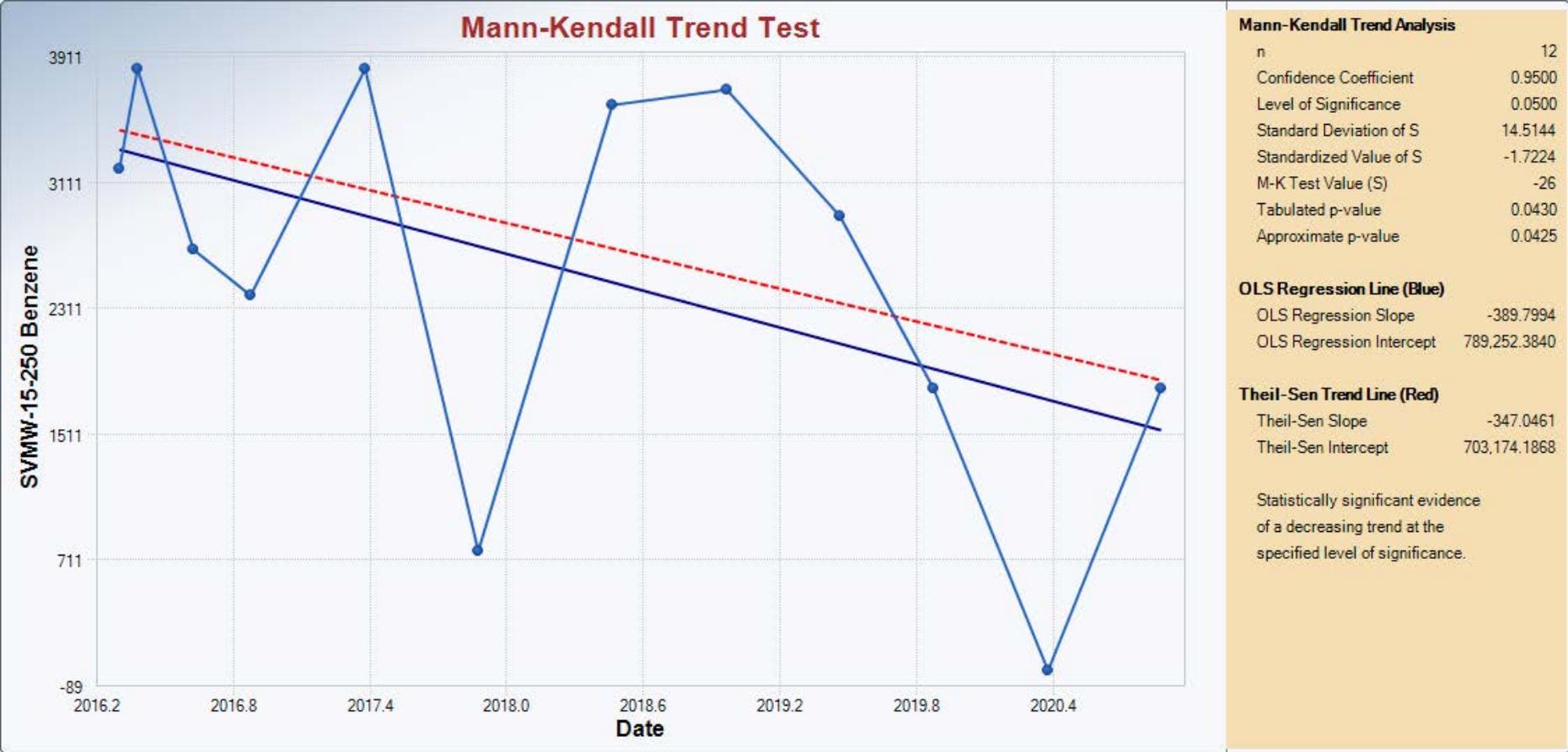
**OLS Regression Line (Blue)**

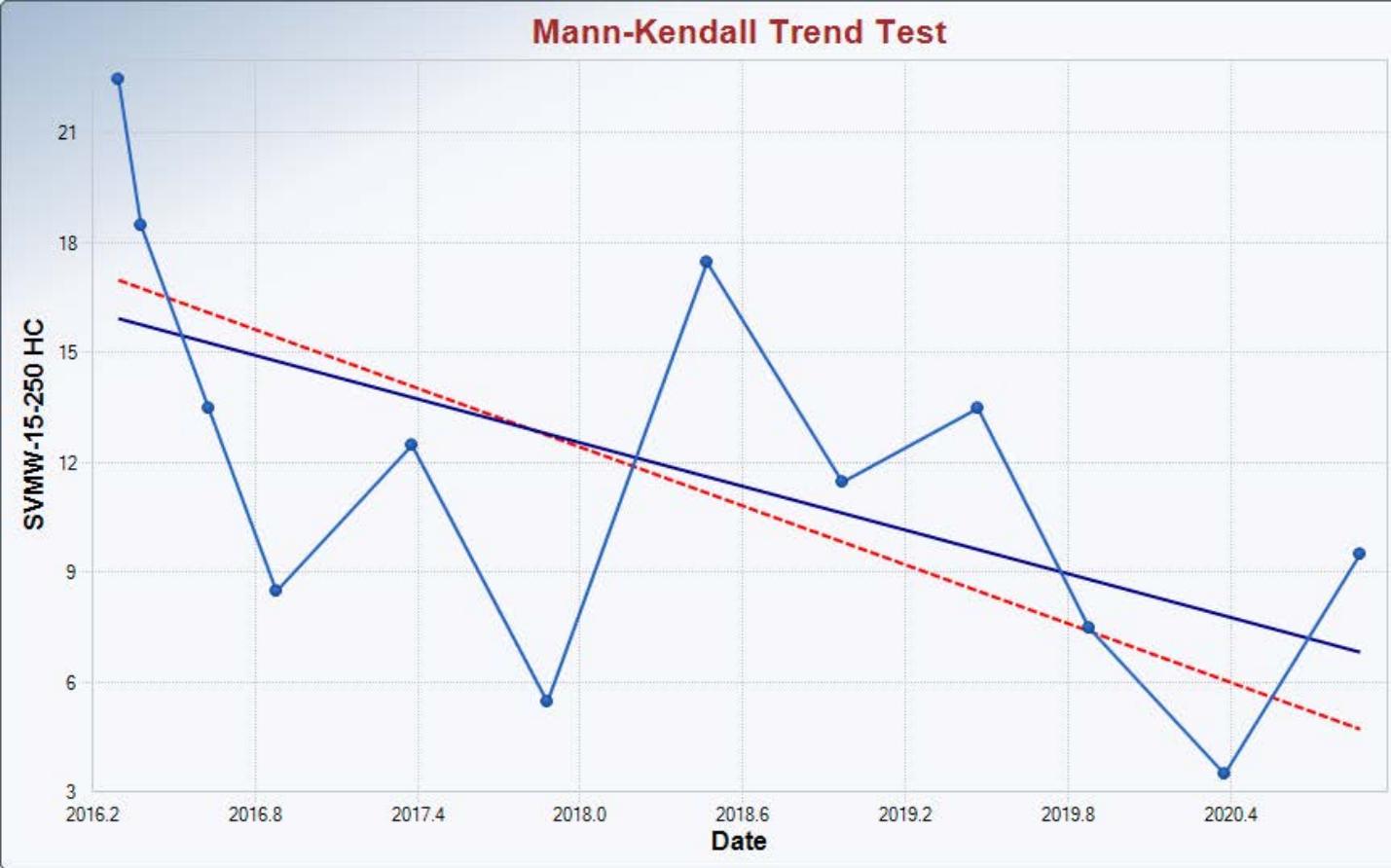
OLS Regression Slope	-938.0457
OLS Regression Intercept	1,916,356.3295

**Theil-Sen Trend Line (Red)**

Theil-Sen Slope	-255.0000
Theil-Sen Intercept	538,426.8750

Insufficient statistical evidence of a significant trend at the specified level of significance.





**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5488
Standardized Value of S	-2.1995
M-K Test Value (S)	-33
Tabulated p-value	0.0160
Approximate p-value	0.0139

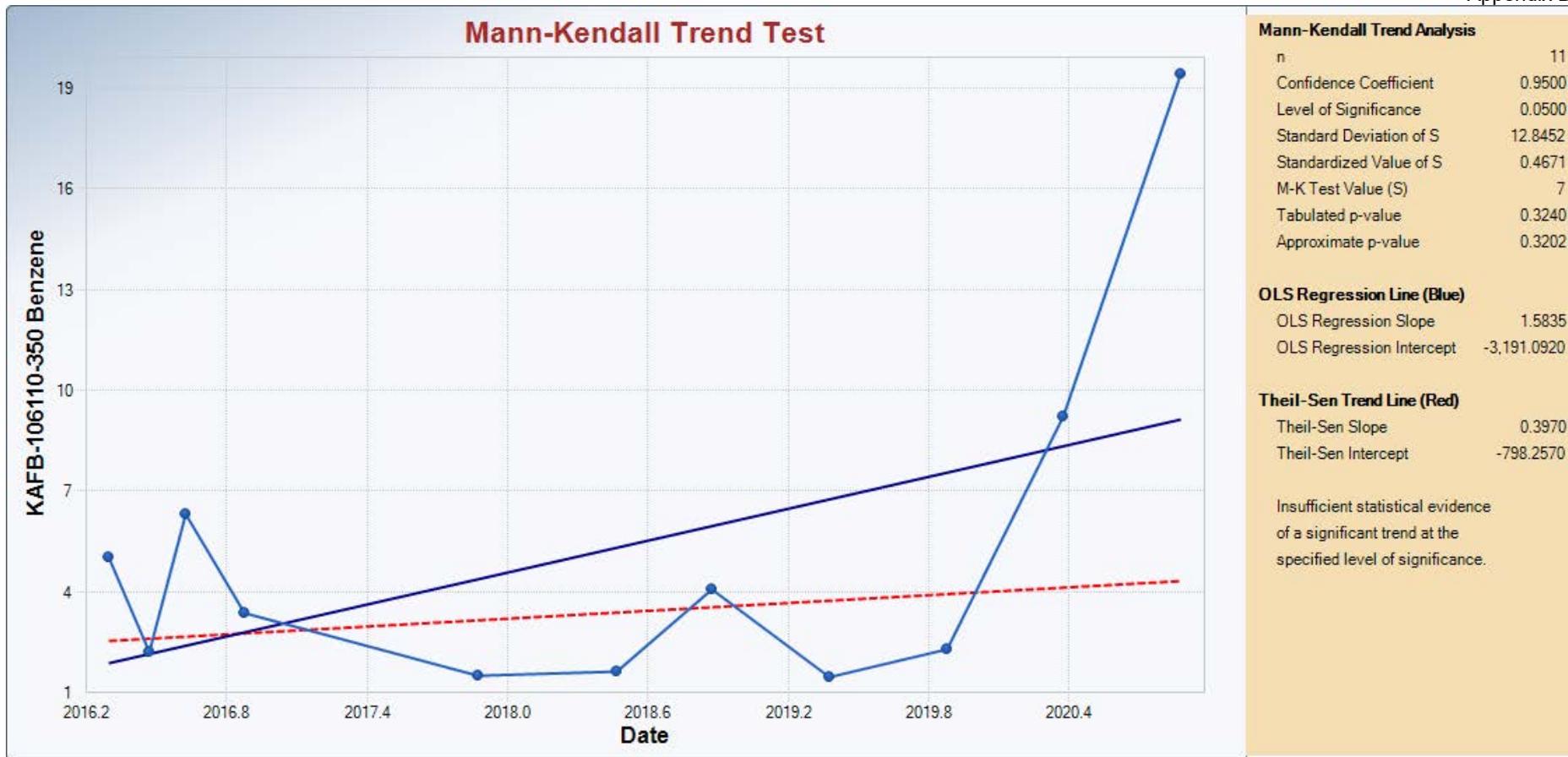
**OLS Regression Line (Blue)**

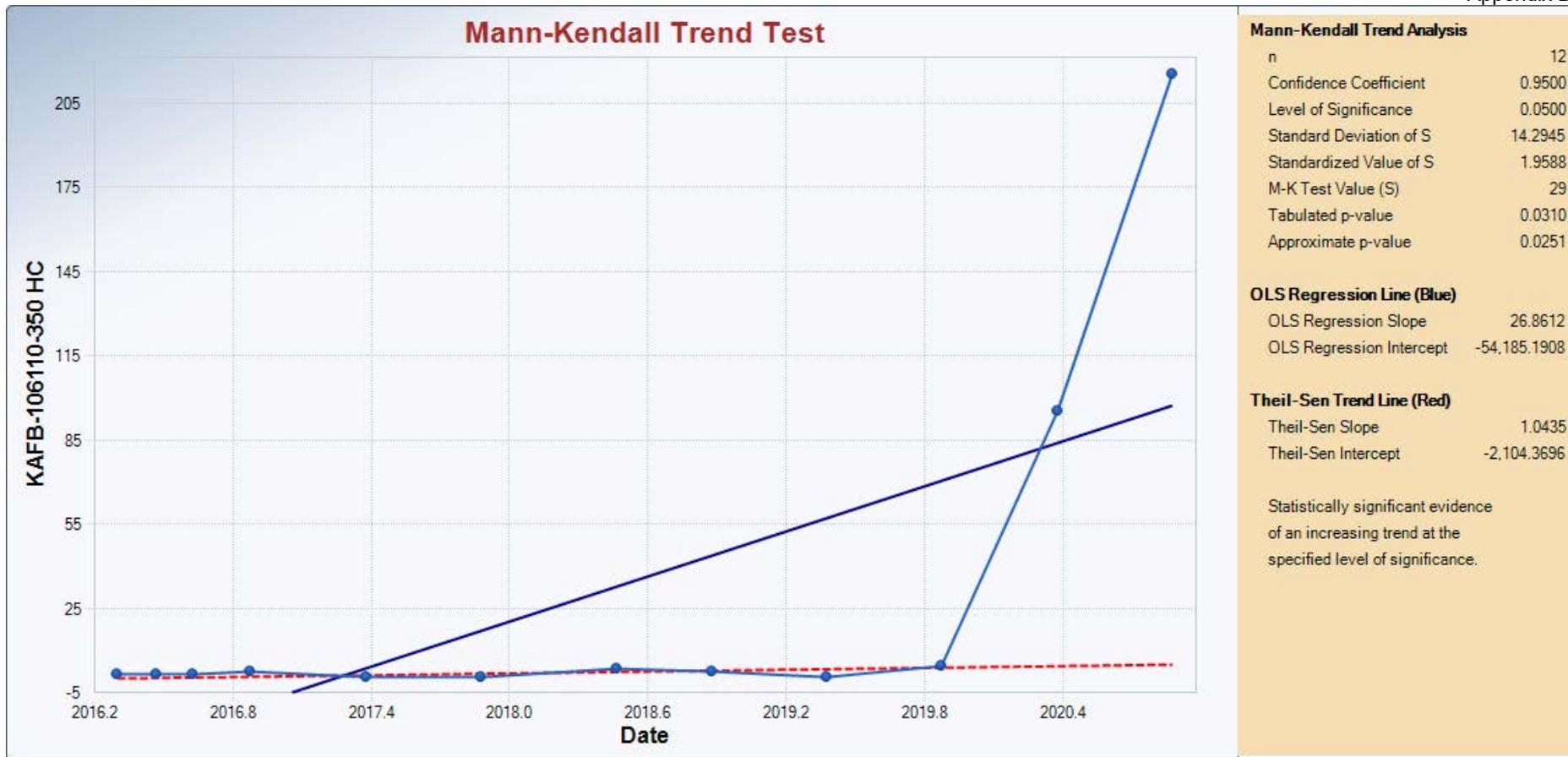
OLS Regression Slope	-1.9983
OLS Regression Intercept	4,044.5449

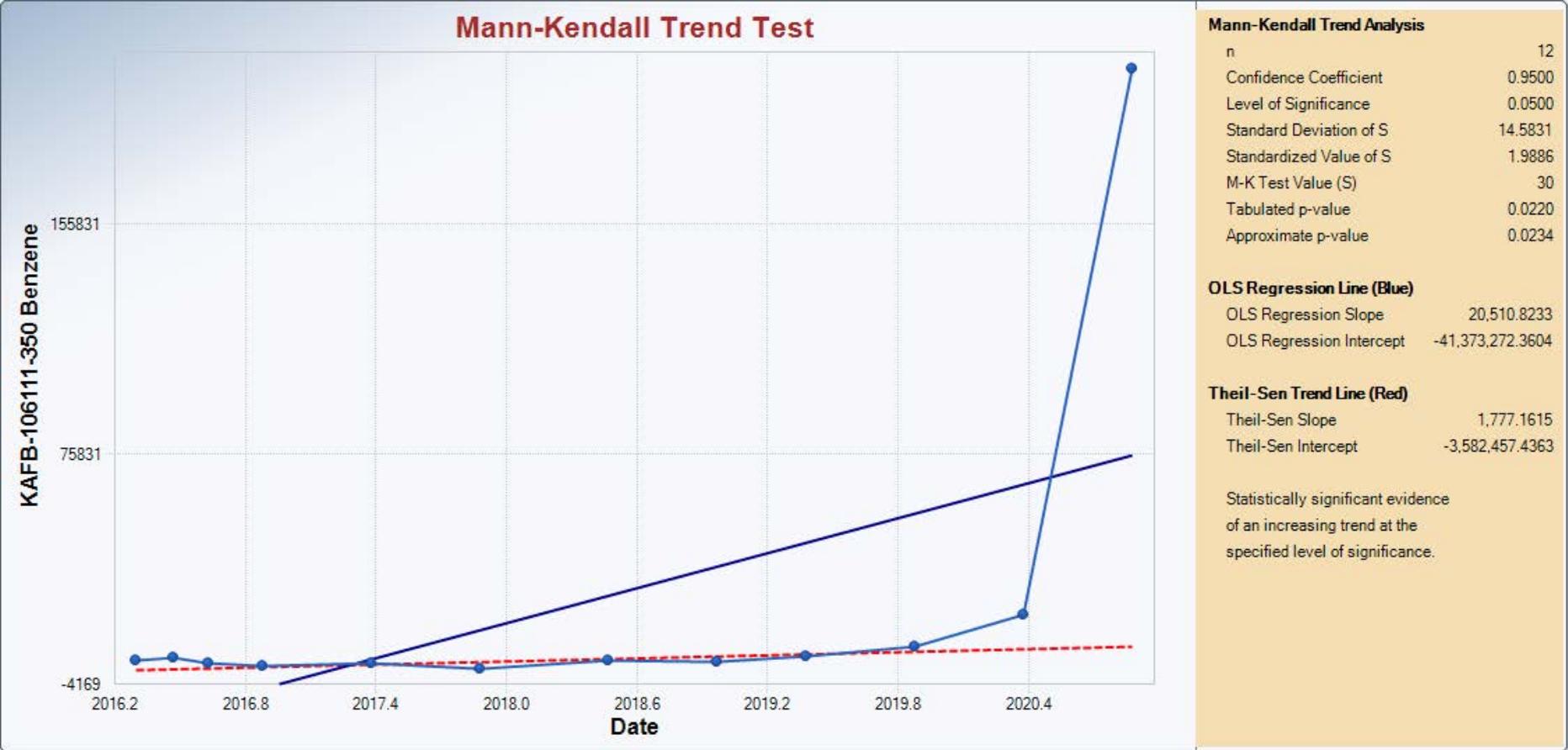
**Theil-Sen Trend Line (Red)**

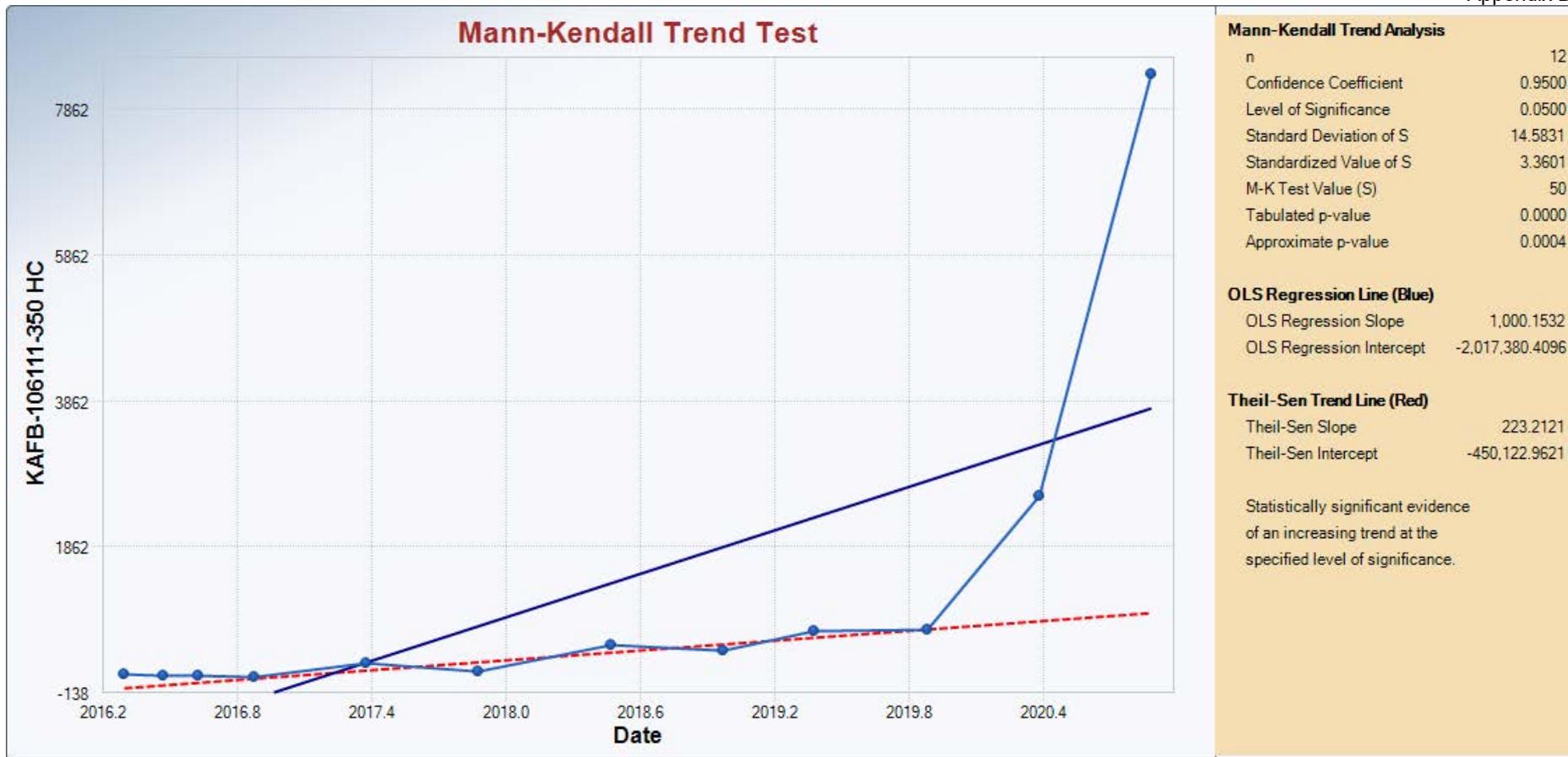
Theil-Sen Slope	-2.6847
Theil-Sen Intercept	5,429.5293

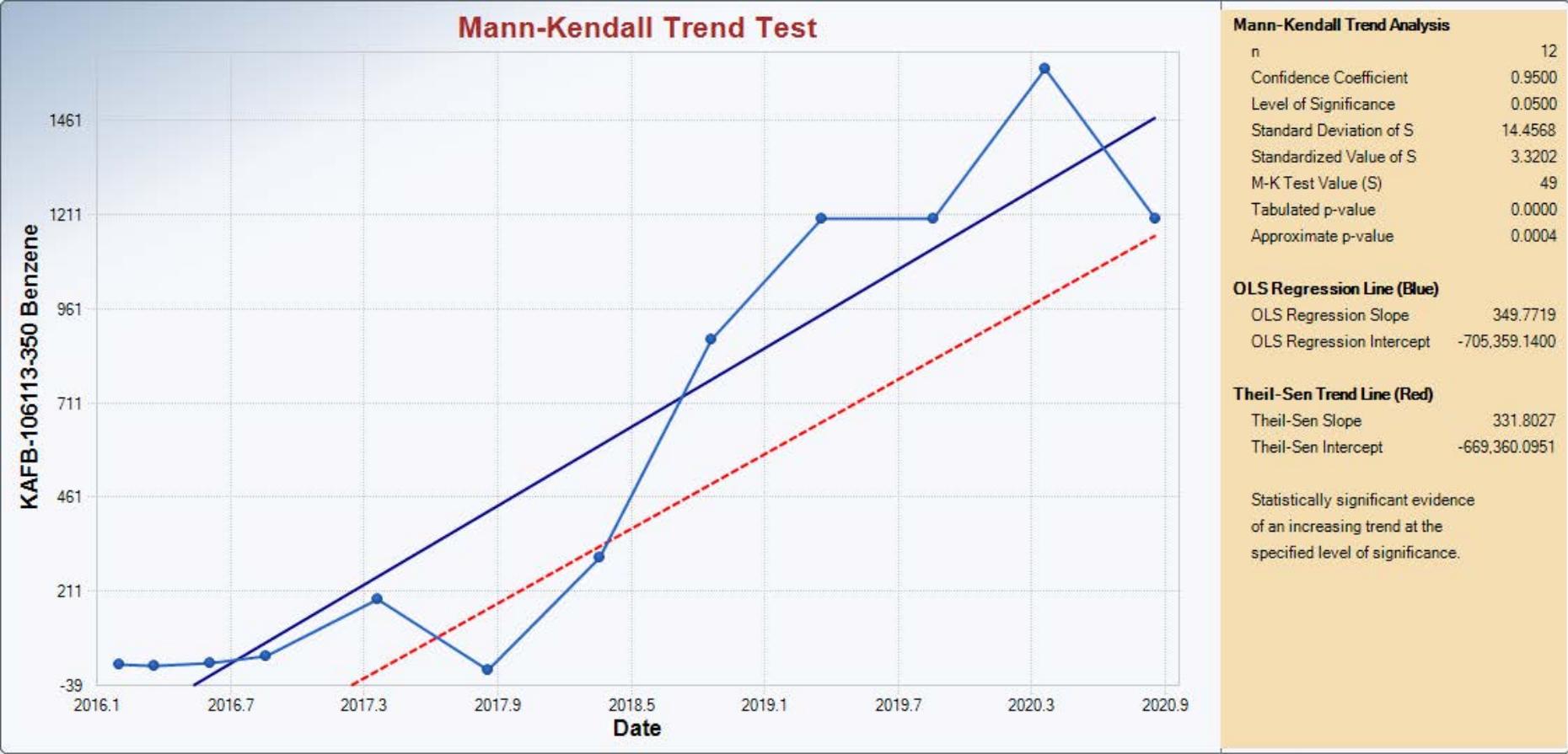
Statistically significant evidence of a decreasing trend at the specified level of significance.

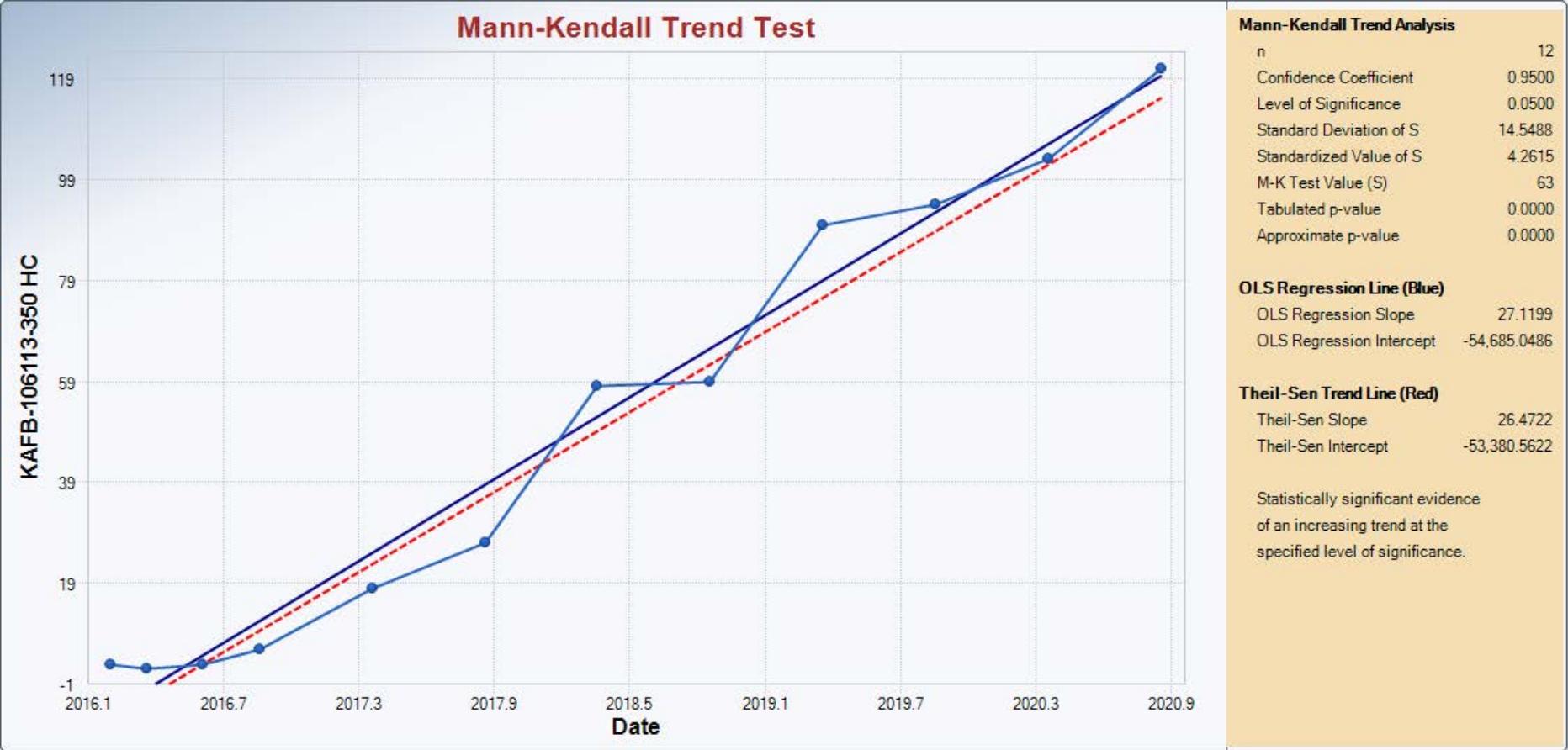


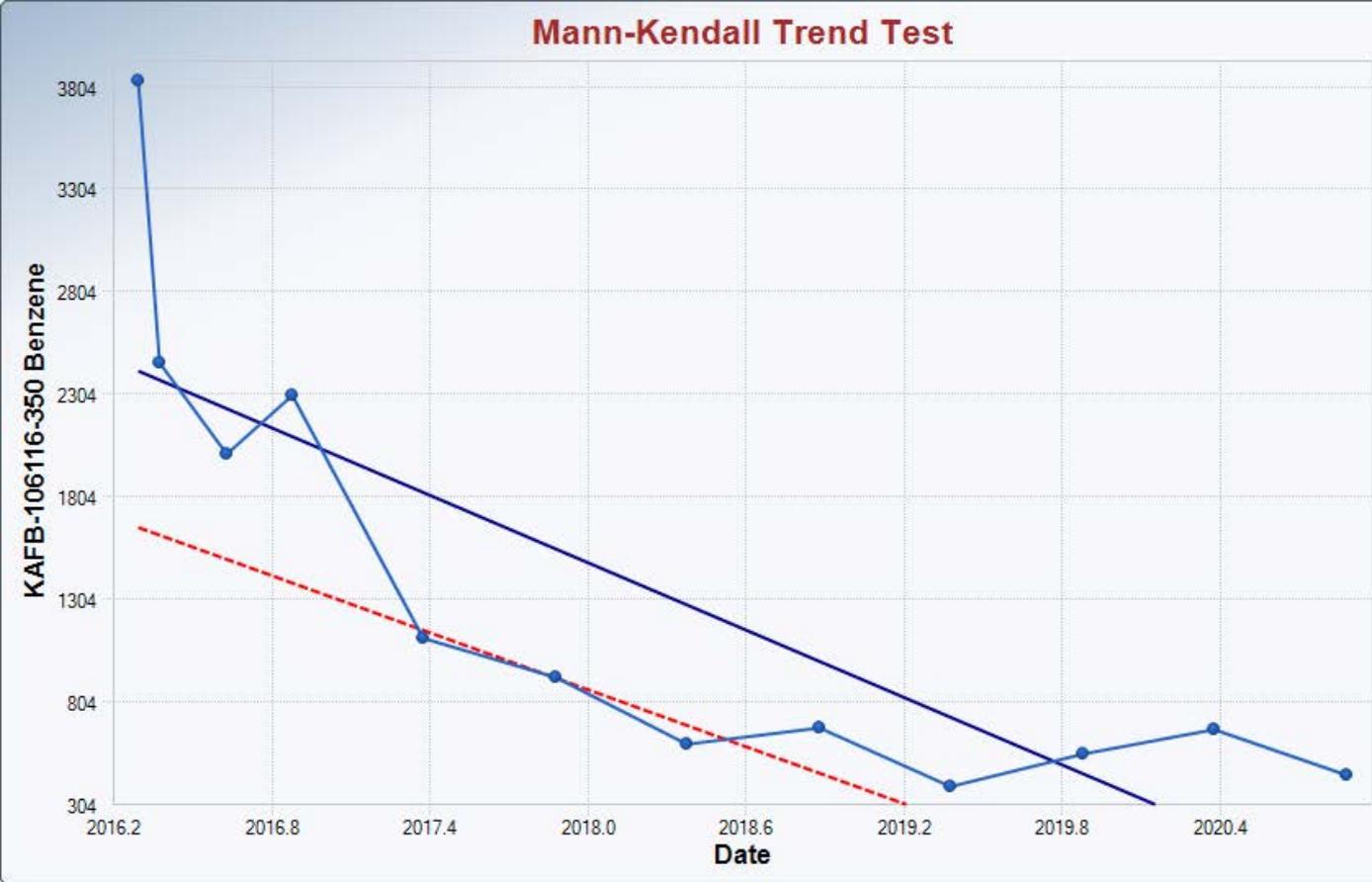












**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-3.4972
M-K Test Value (S)	-52
Tabulated p-value	0.0000
Approximate p-value	0.0002

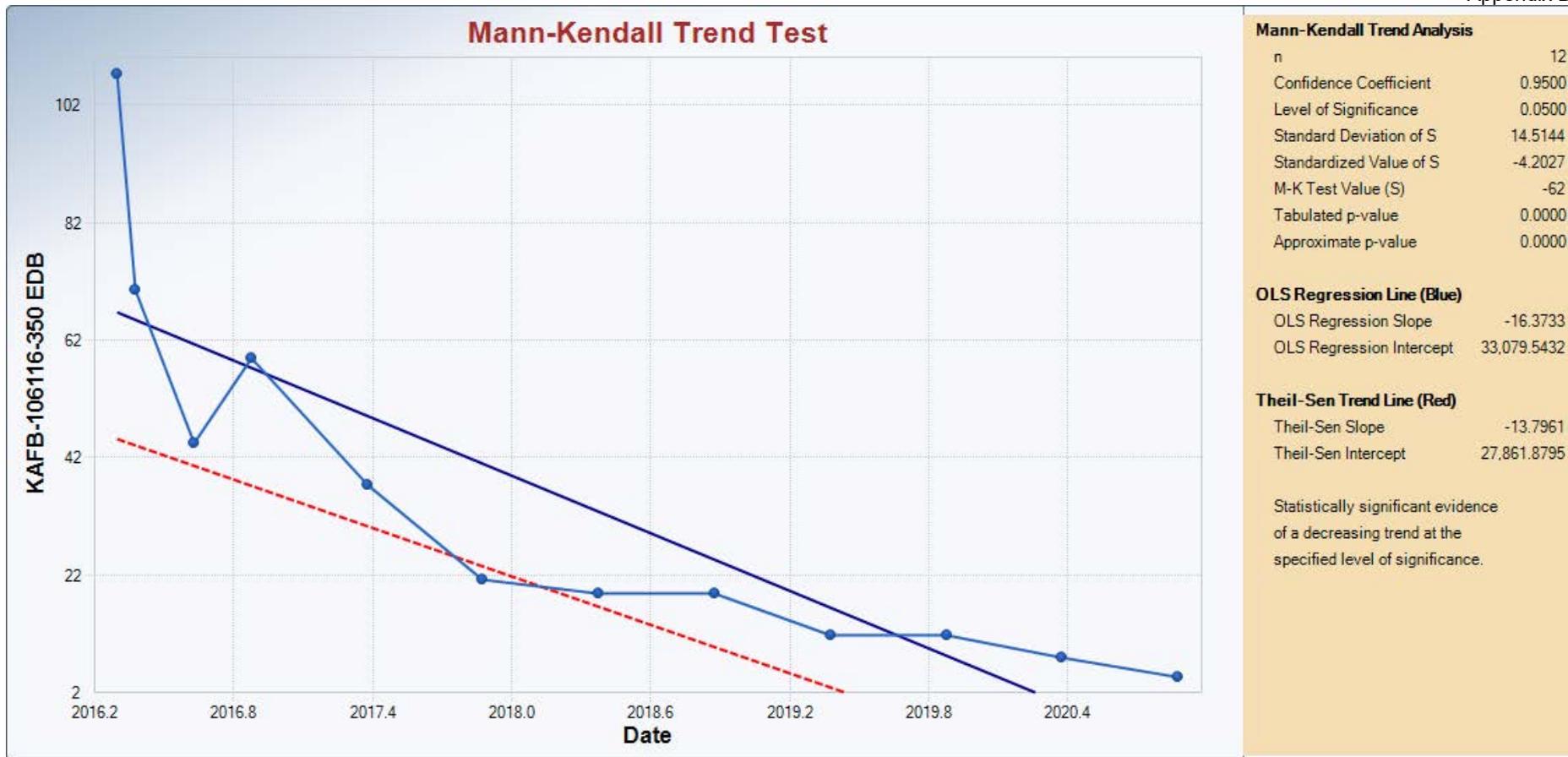
**OLS Regression Line (Blue)**

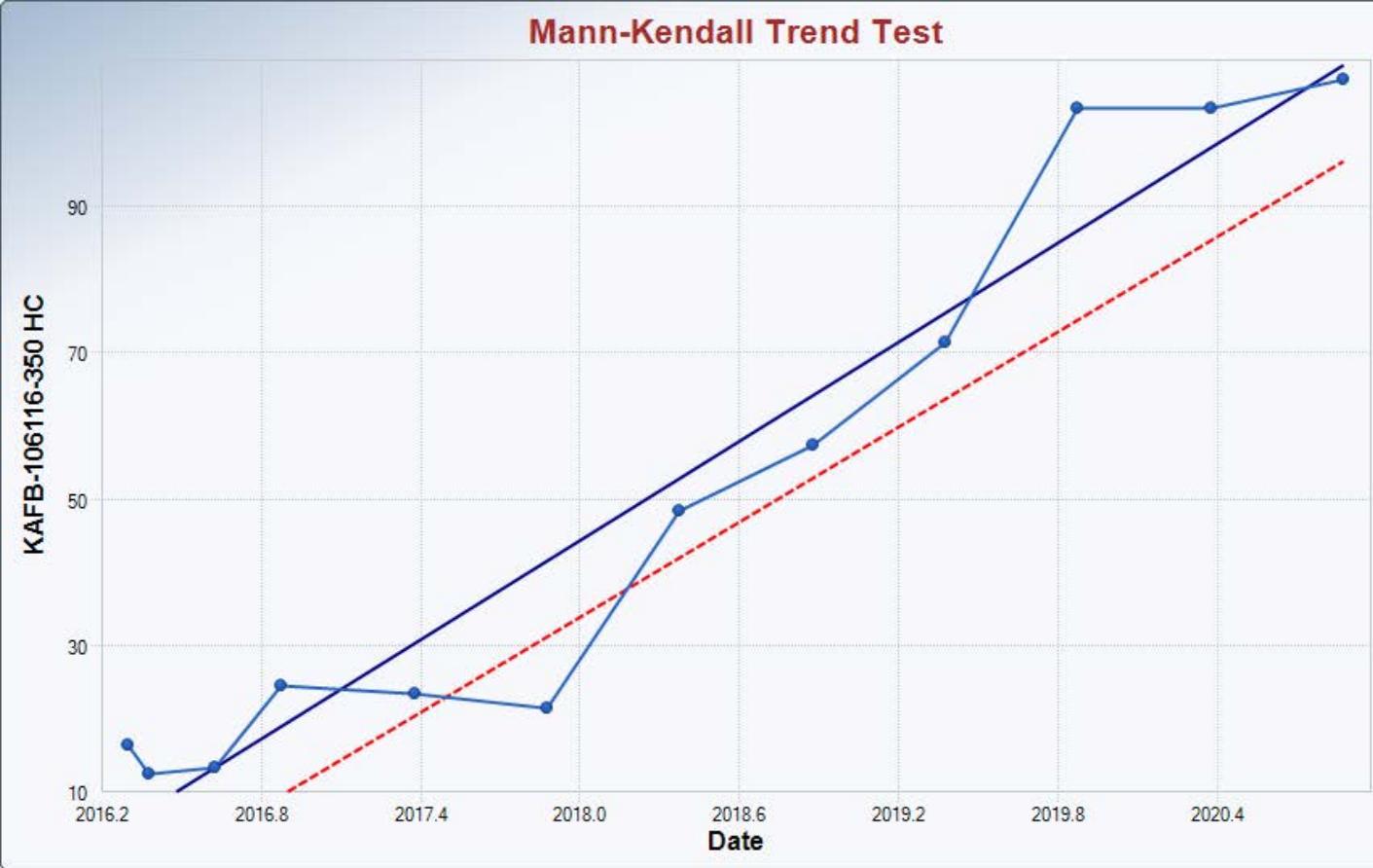
OLS Regression Slope	-549.4684
OLS Regression Intercept	1,110,280.2677

**Theil-Sen Trend Line (Red)**

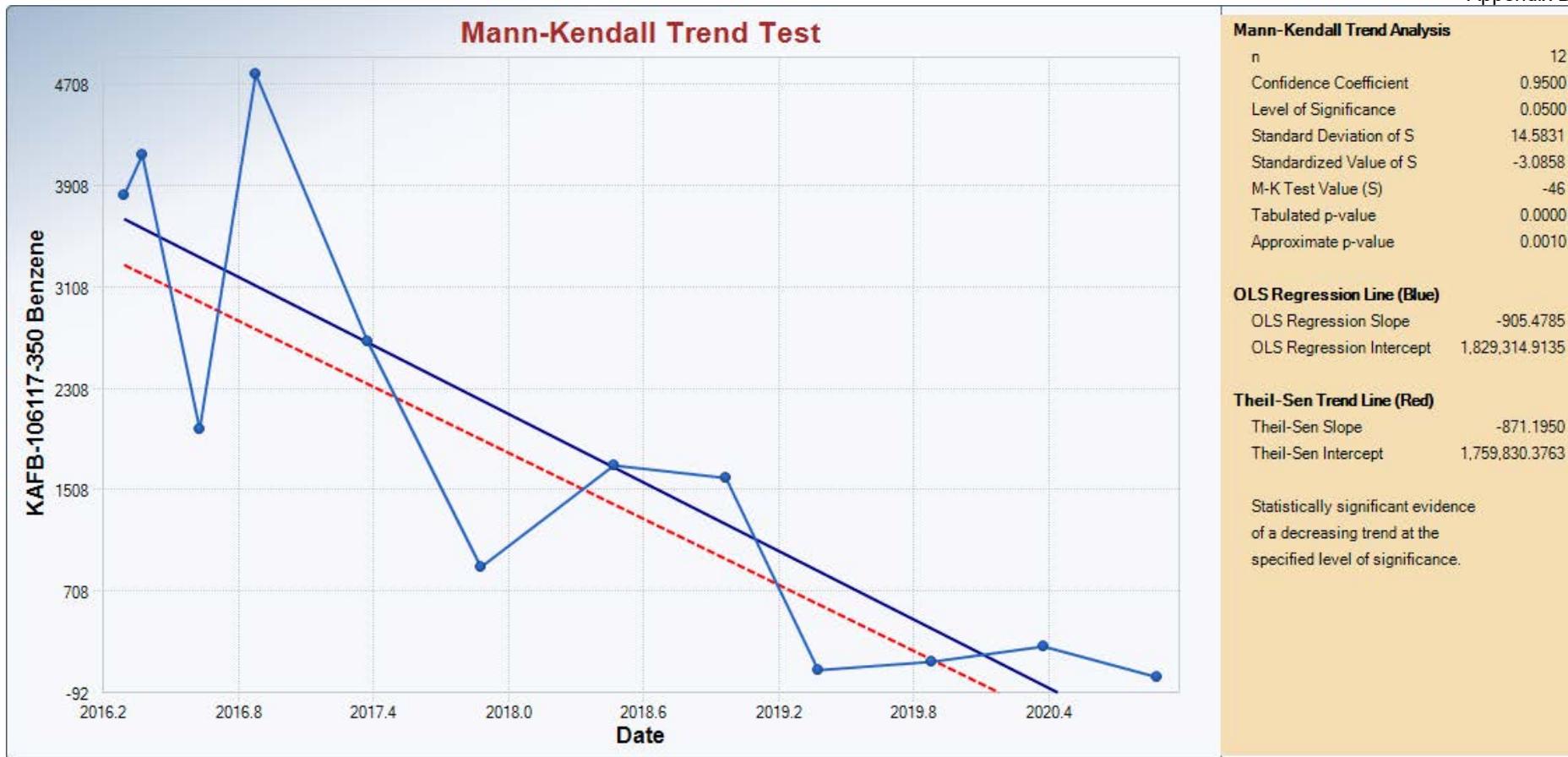
Theil-Sen Slope	-464.1532
Theil-Sen Intercept	937,501.4283

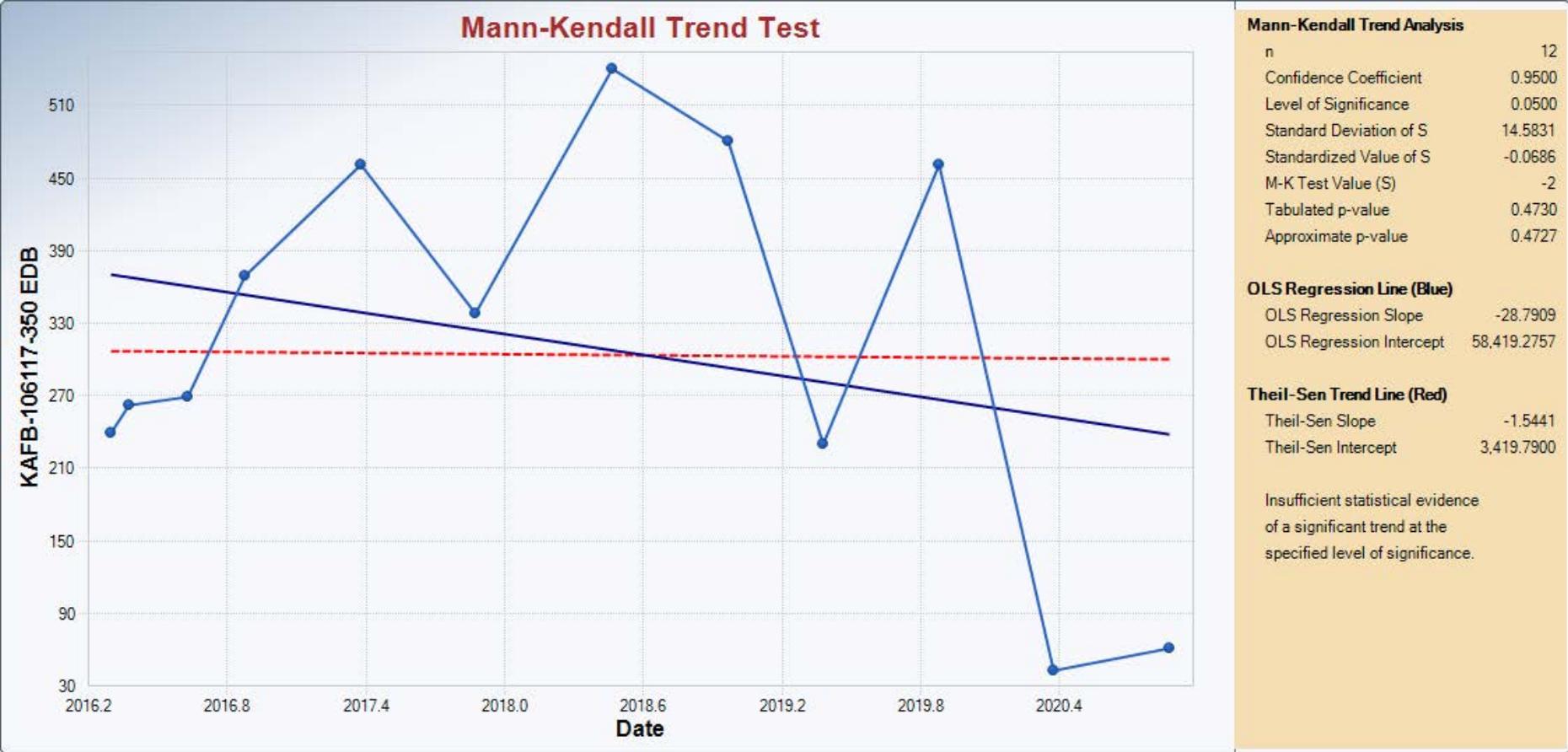
Statistically significant evidence of a decreasing trend at the specified level of significance.

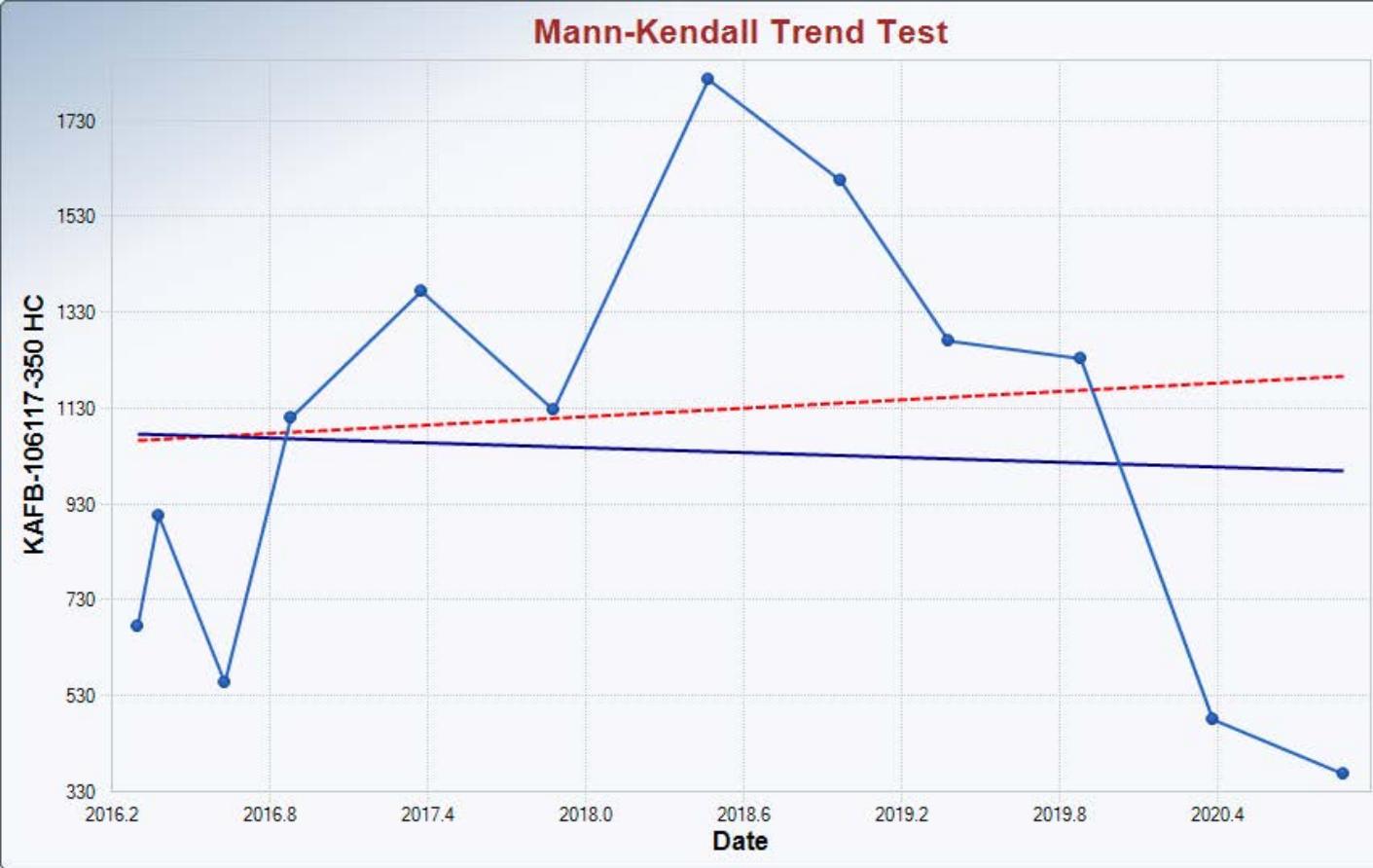




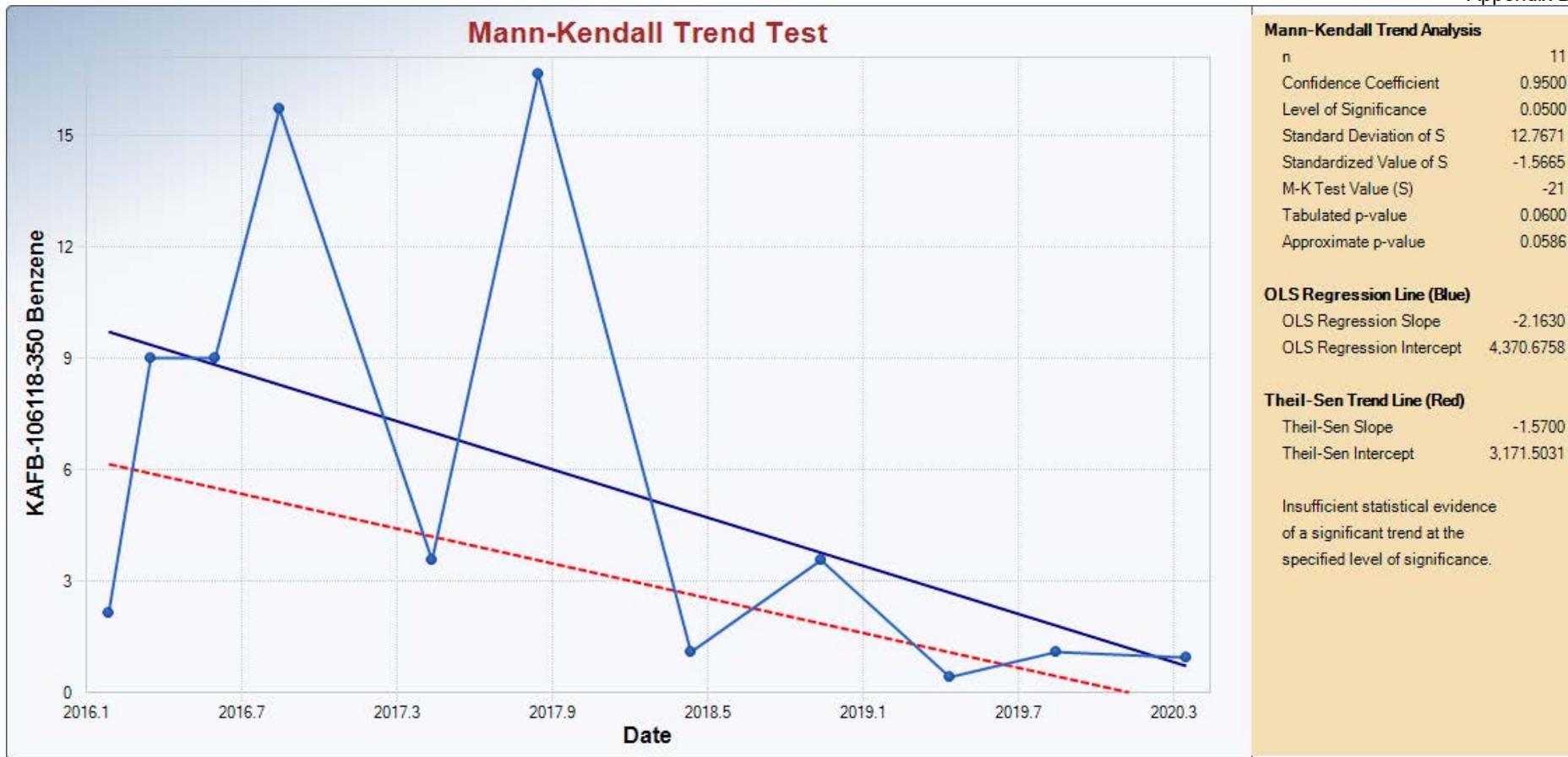
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5488
Standardized Value of S	3.7117
M-K Test Value (S)	55
Tabulated p-value	0.0000
Approximate p-value	0.0001
OLS Regression Line (Blue)	
OLS Regression Slope	22.6120
OLS Regression Intercept	-45,586.0481
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	21.7206
Theil-Sen Intercept	-43,797.8847
Statistically significant evidence of an increasing trend at the specified level of significance.	

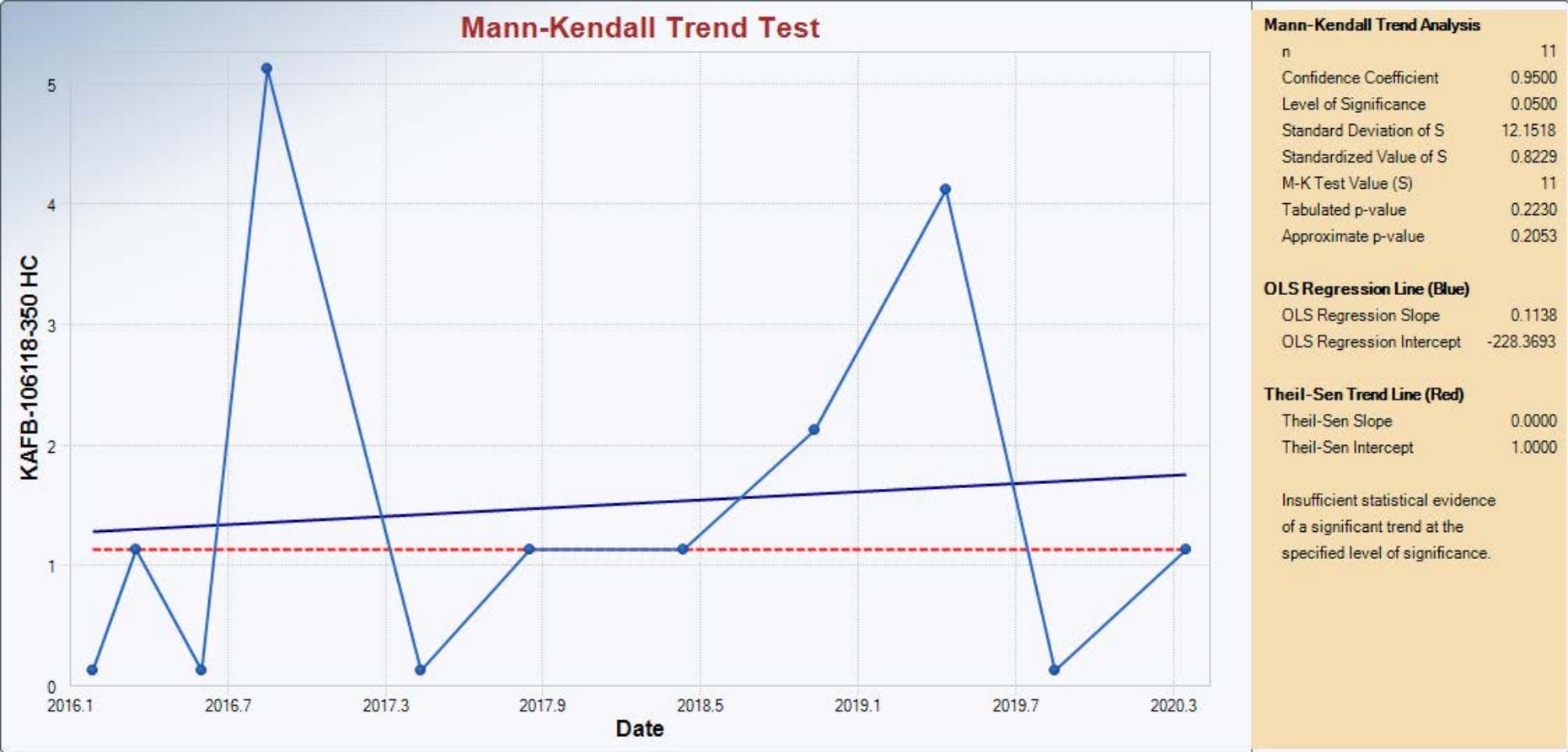


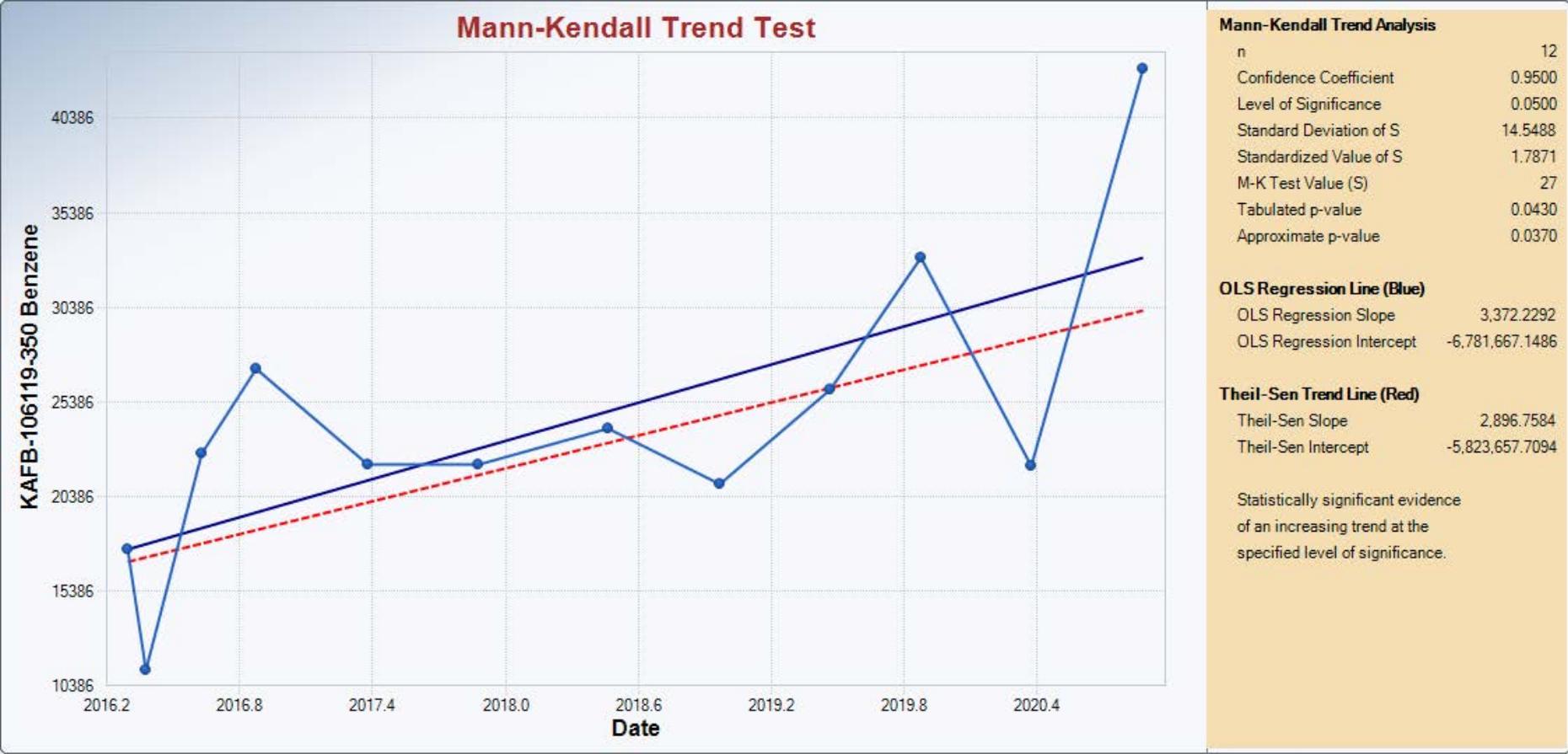


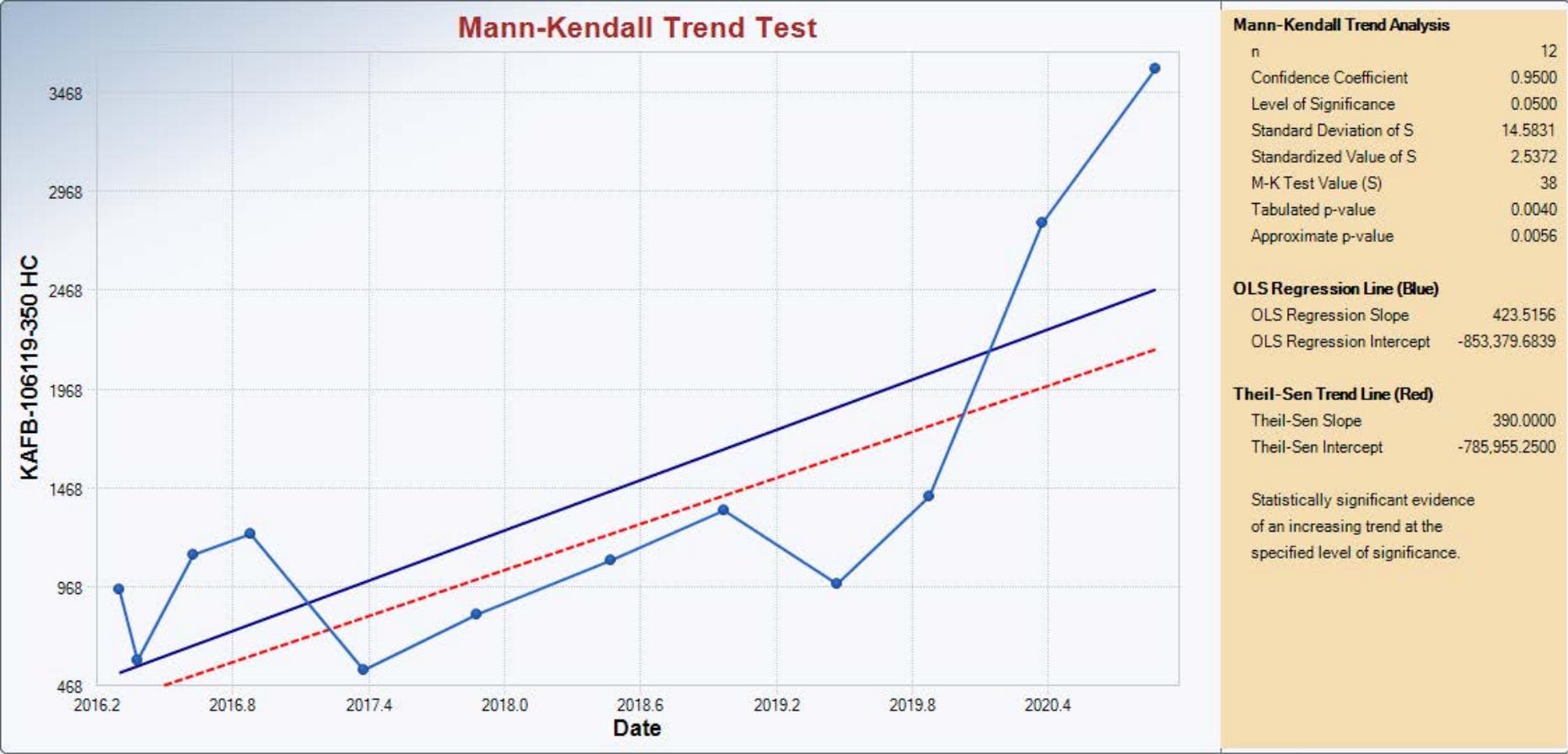


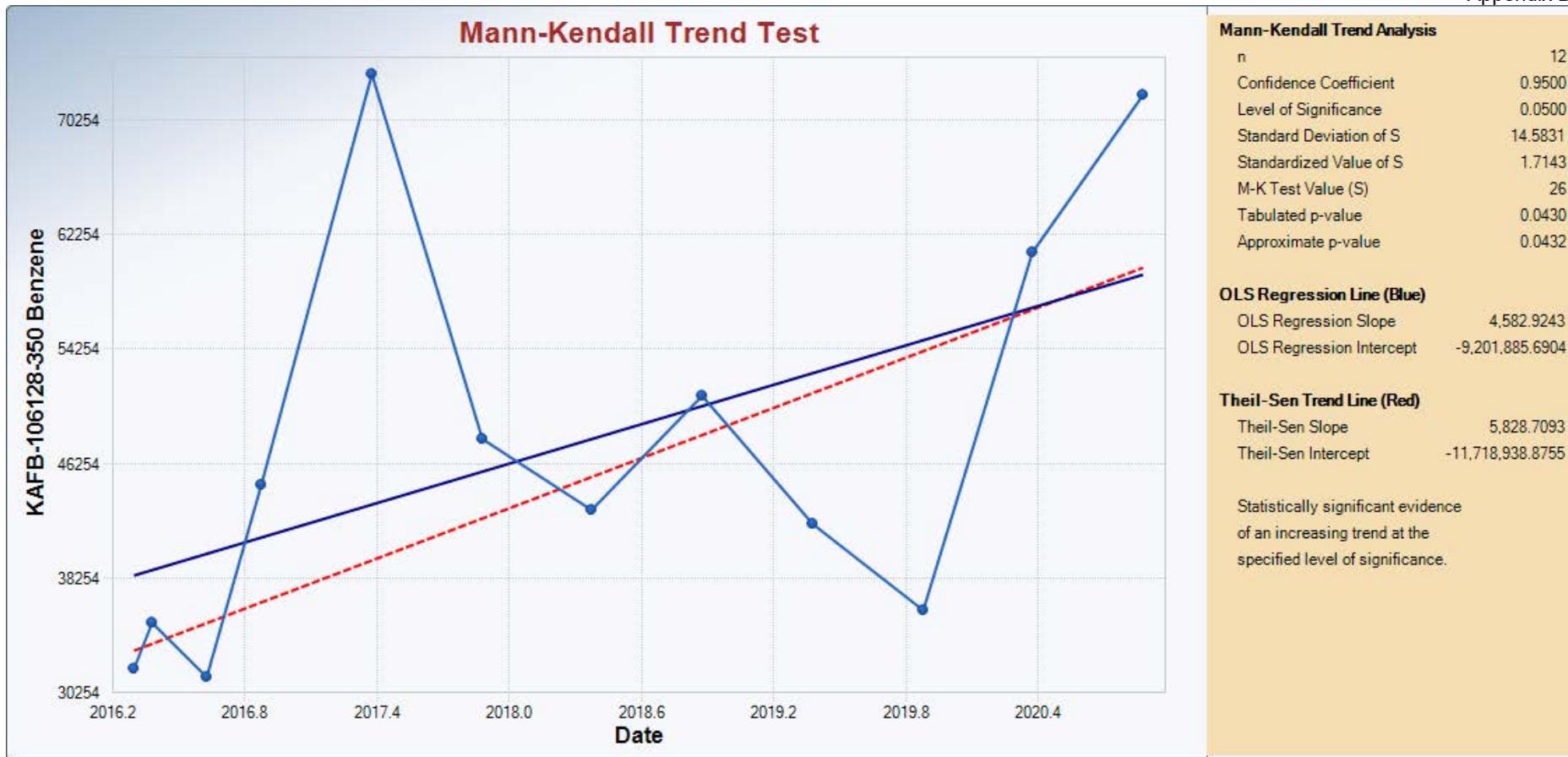
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	0.0686
M-K Test Value (S)	2
Tabulated p-value	0.4730
Approximate p-value	0.4727
OLS Regression Line (Blue)	
OLS Regression Slope	-16.9612
OLS Regression Intercept	35,274.4744
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	29.1667
Theil-Sen Intercept	-57,745.4792
Insufficient statistical evidence of a significant trend at the specified level of significance.	

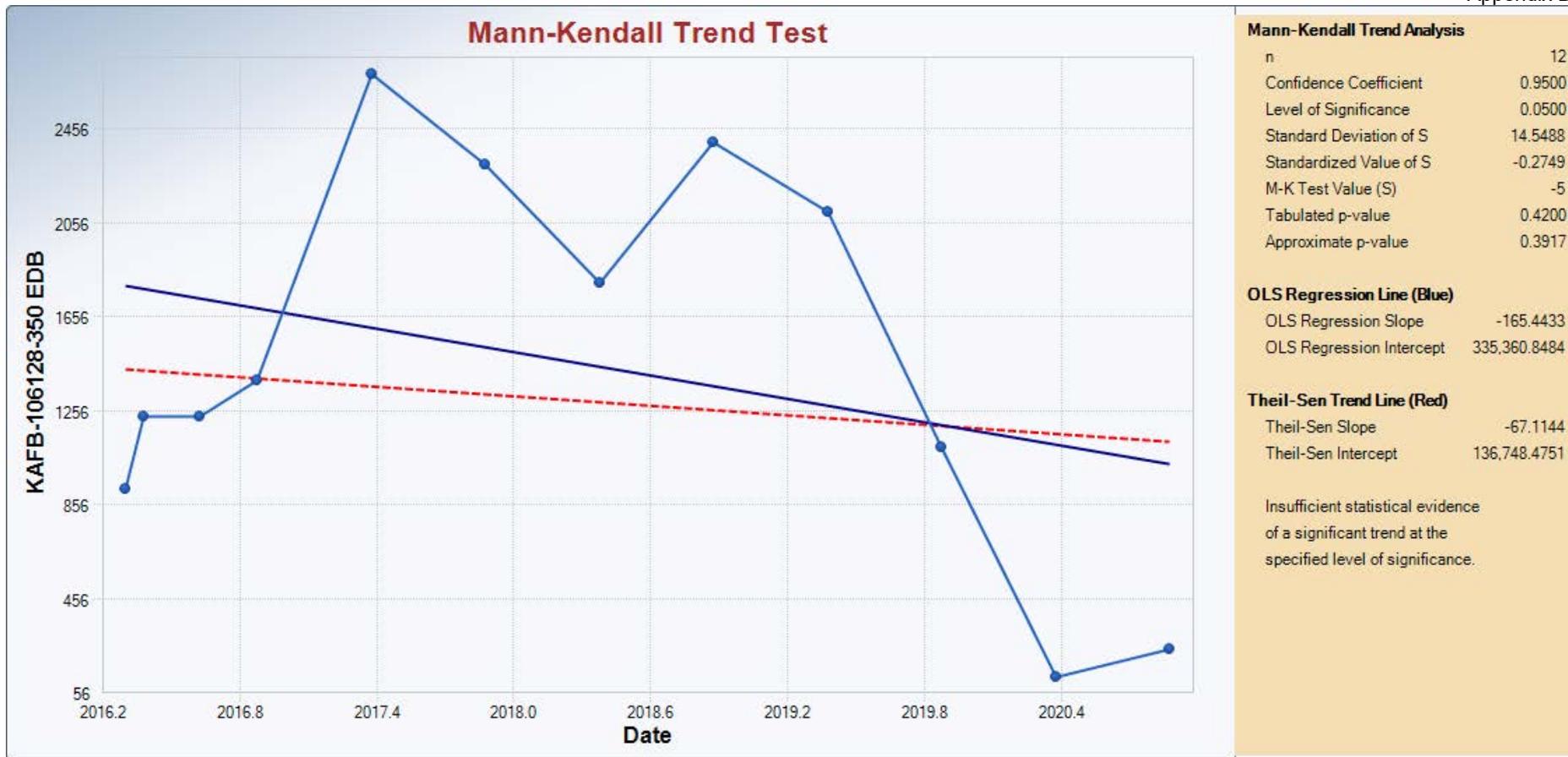


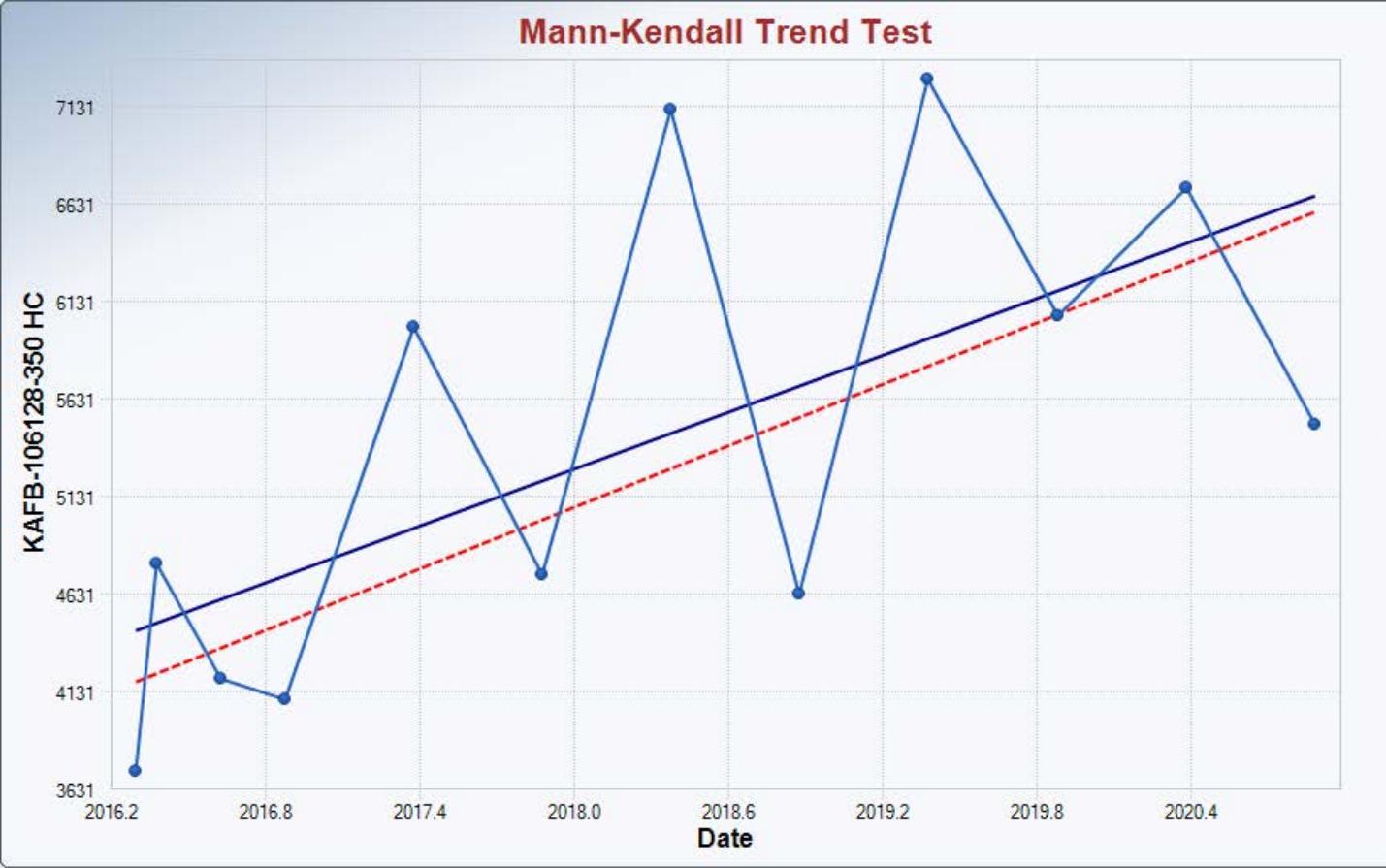




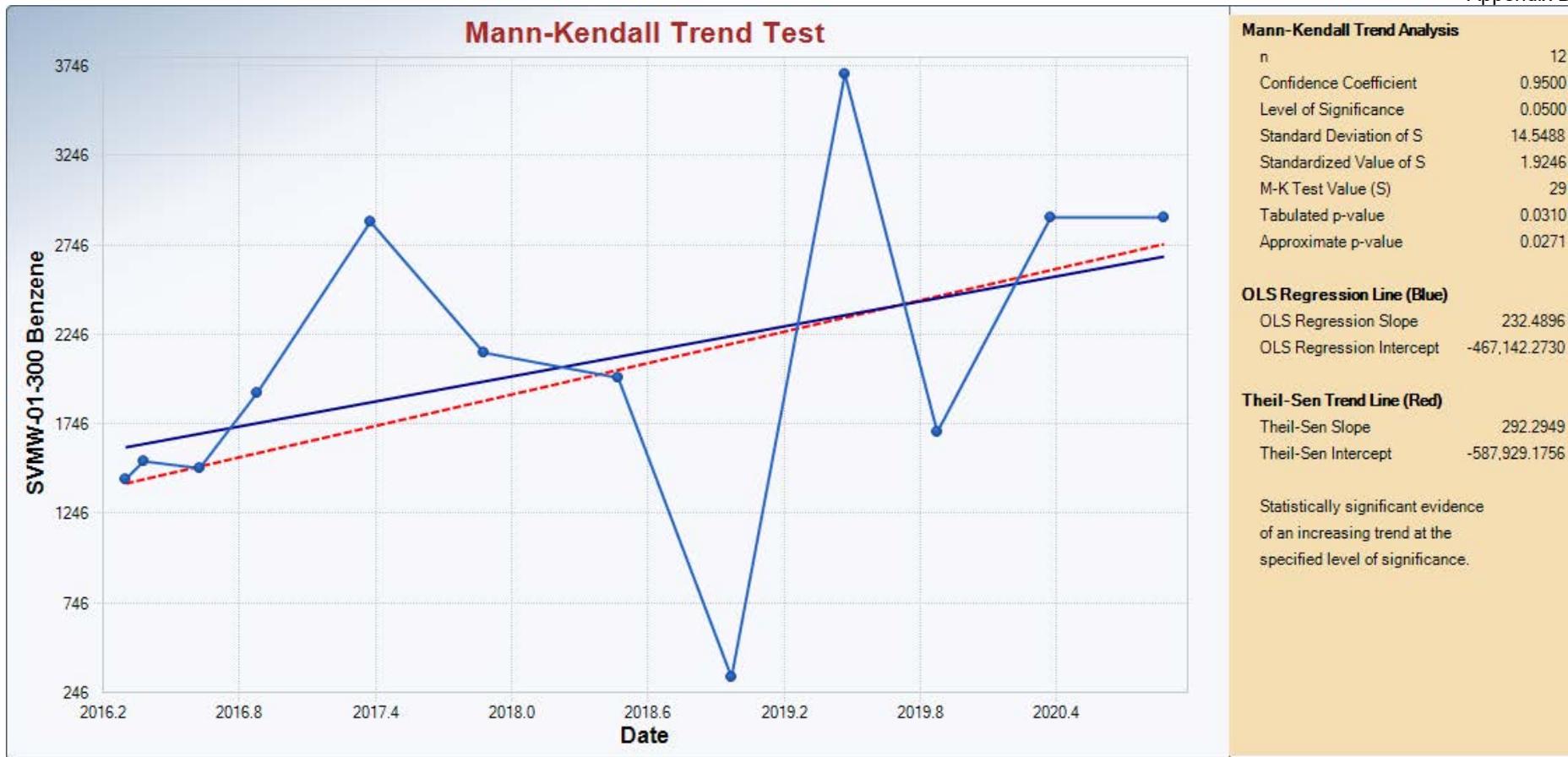


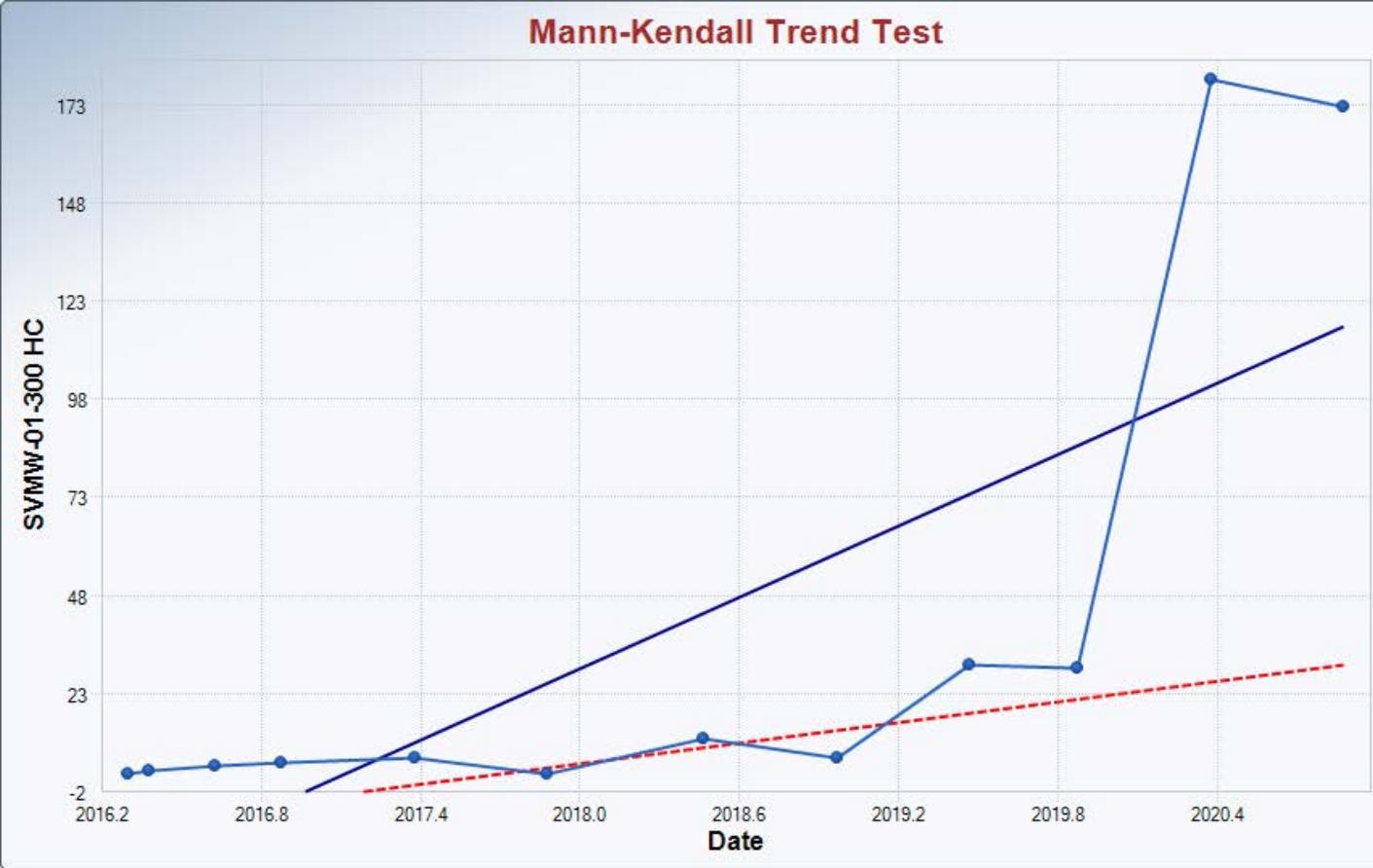




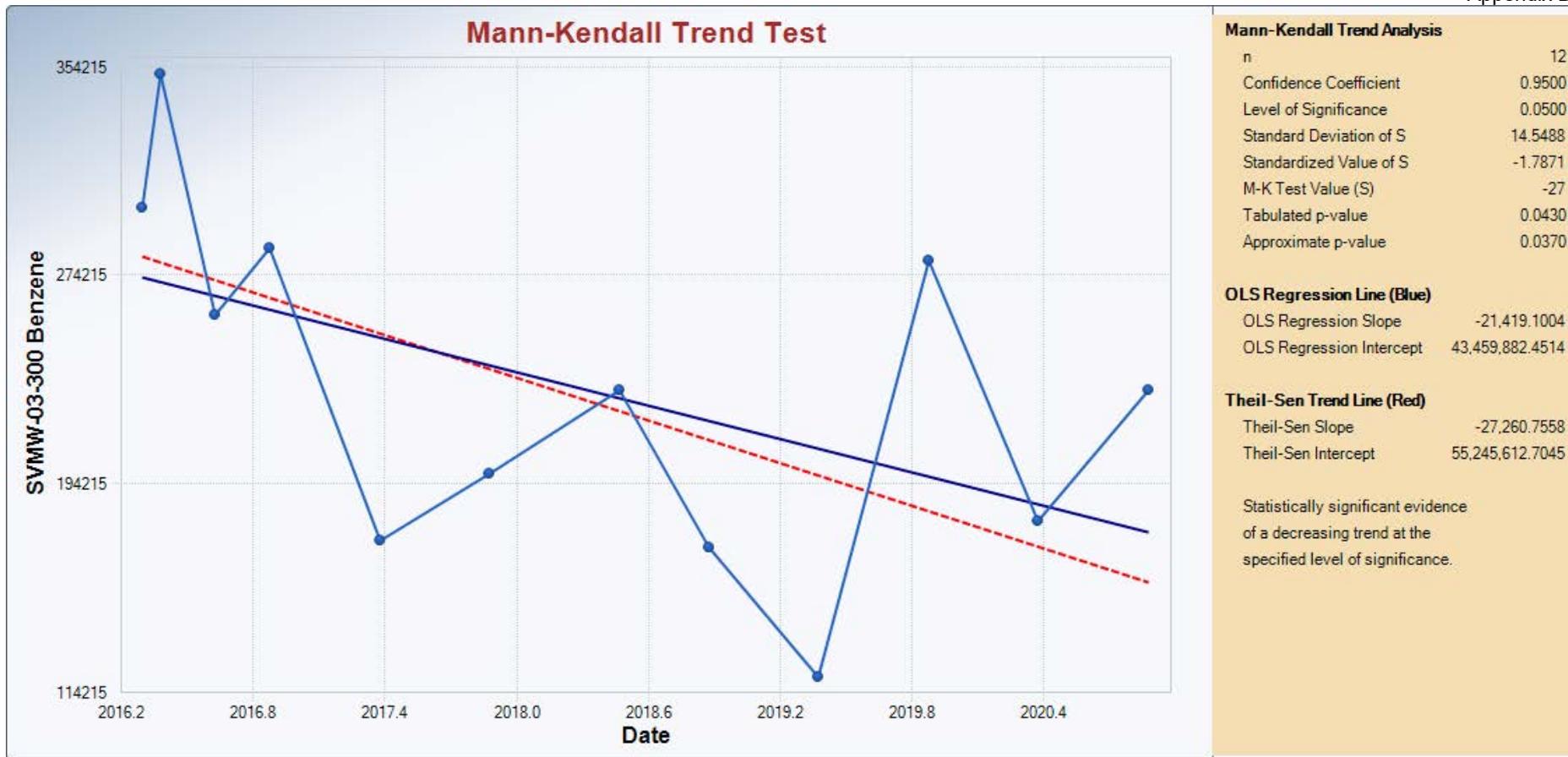


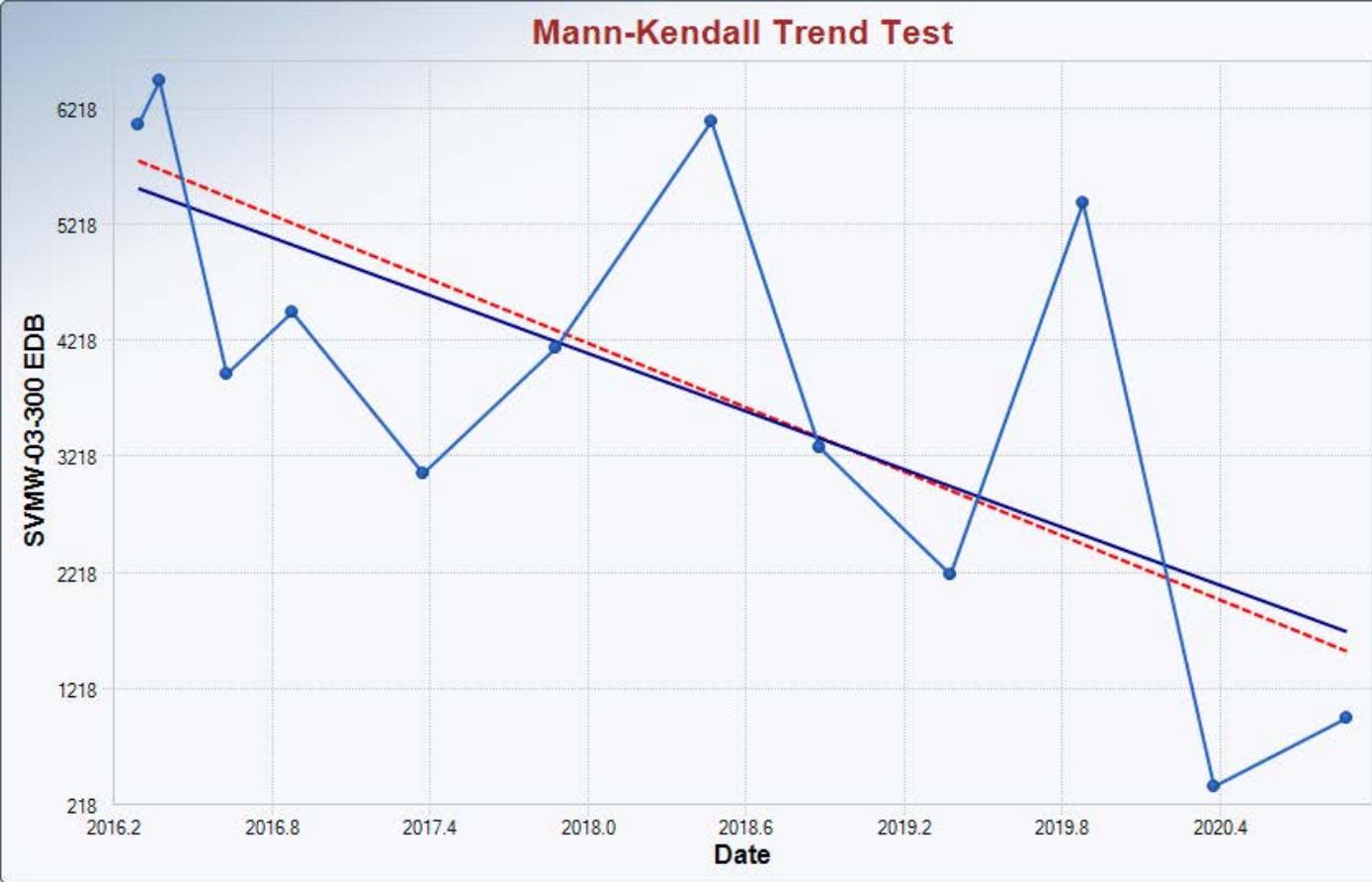
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	1.9886
M-K Test Value (S)	30
Tabulated p-value	0.0220
Approximate p-value	0.0234
OLS Regression Line (Blue)	
OLS Regression Slope	486.4789
OLS Regression Intercept	-976,420.1234
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	526.1538
Theil-Sen Intercept	-1,056,675.5538
Statistically significant evidence of an increasing trend at the specified level of significance.	





Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5144
Standardized Value of S	3.3760
M-K Test Value (S)	50
Tabulated p-value	0.0000
Approximate p-value	0.0004
OLS Regression Line (Blue)	
OLS Regression Slope	30.4003
OLS Regression Intercept	-61,317.7486
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	8.7853
Theil-Sen Intercept	-17,723.9059
Statistically significant evidence of an increasing trend at the specified level of significance.	





**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-2.1257
M-K Test Value (S)	-32
Tabulated p-value	0.0160
Approximate p-value	0.0168

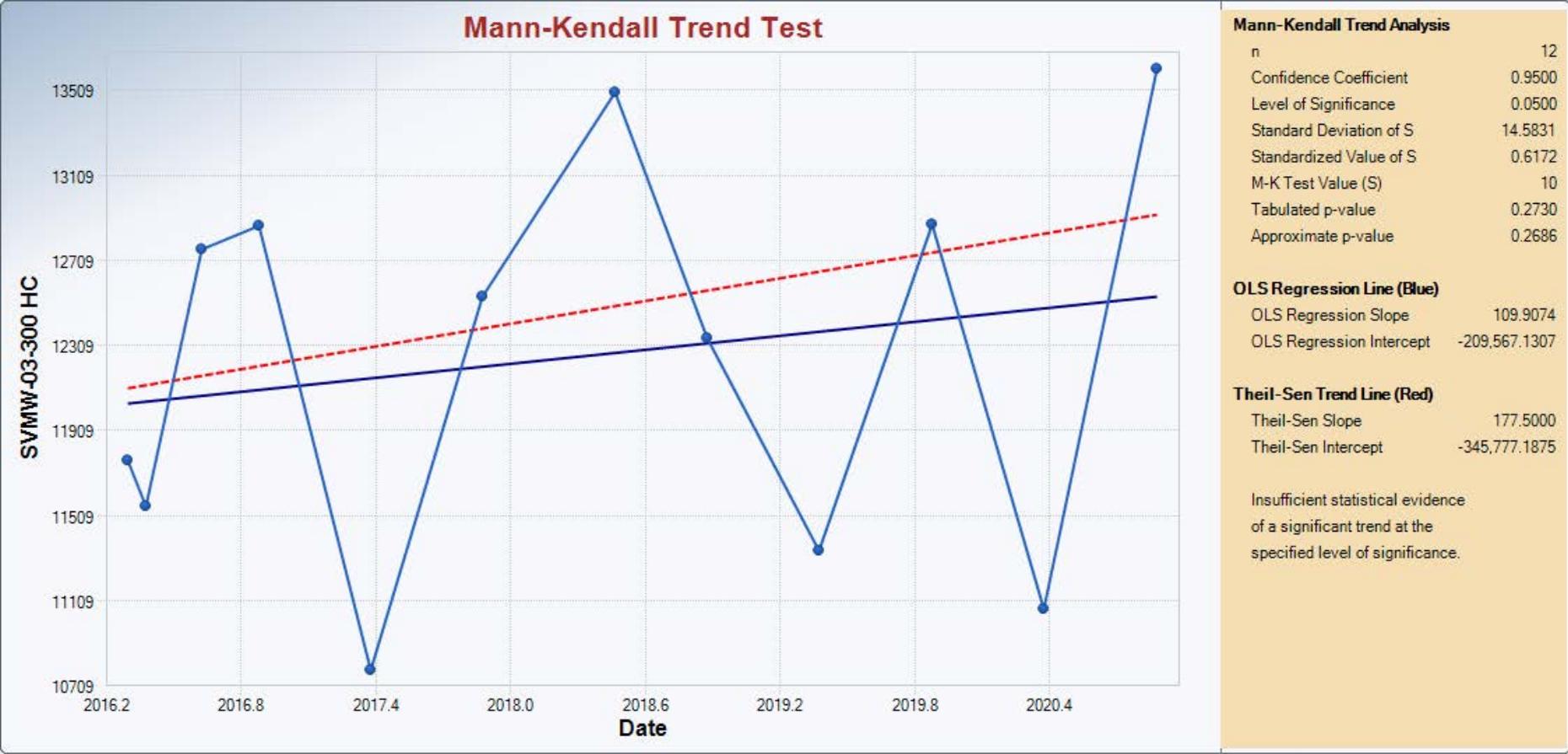
**OLS Regression Line (Blue)**

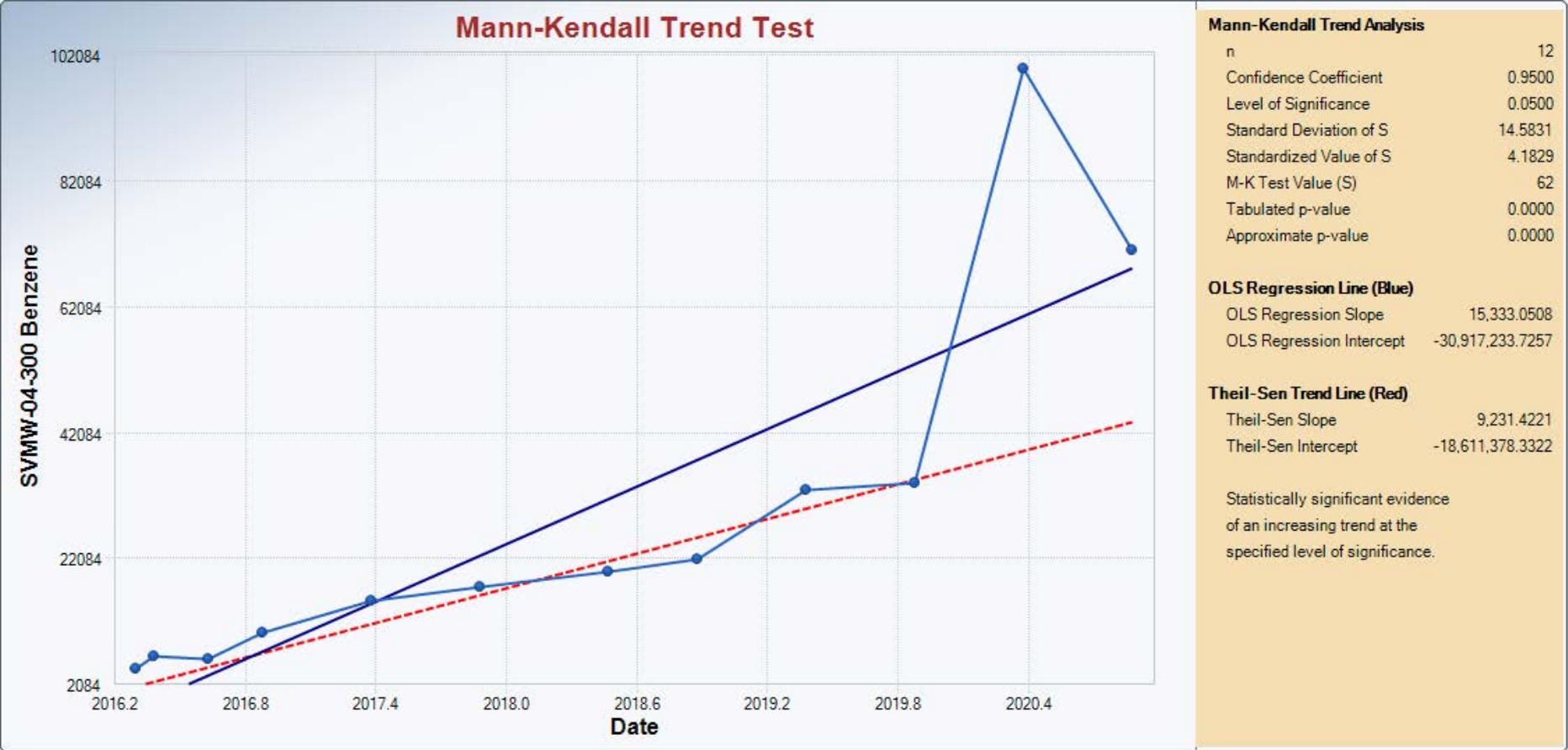
OLS Regression Slope	-834.1486
OLS Regression Intercept	1,687,372.2111

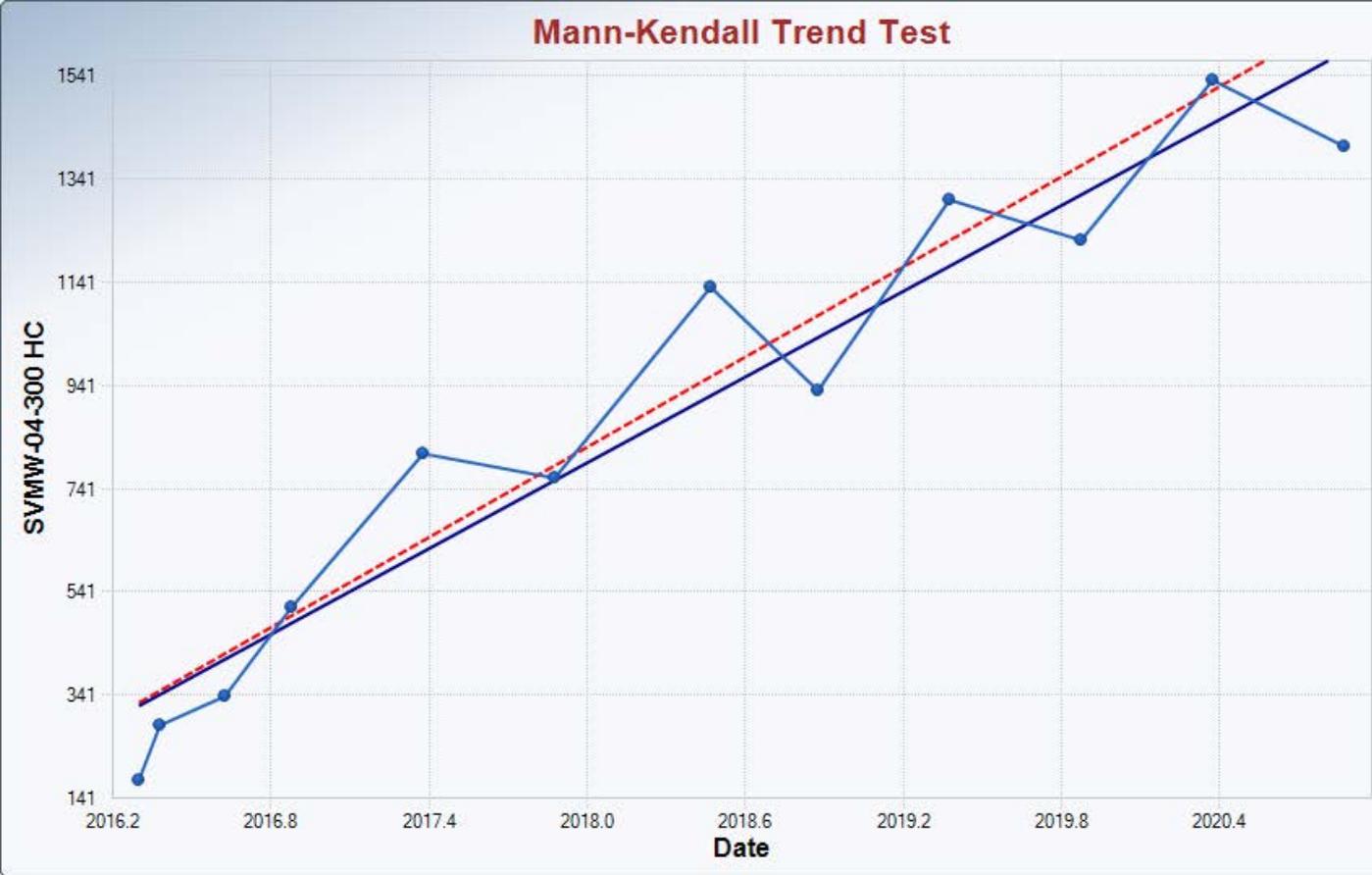
**Theil-Sen Trend Line (Red)**

Theil-Sen Slope	-924.5693
Theil-Sen Intercept	1,869,930.7025

Statistically significant evidence of a decreasing trend at the specified level of significance.







**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	3.9086
M-K Test Value (S)	58
Tabulated p-value	0.0000
Approximate p-value	0.0000

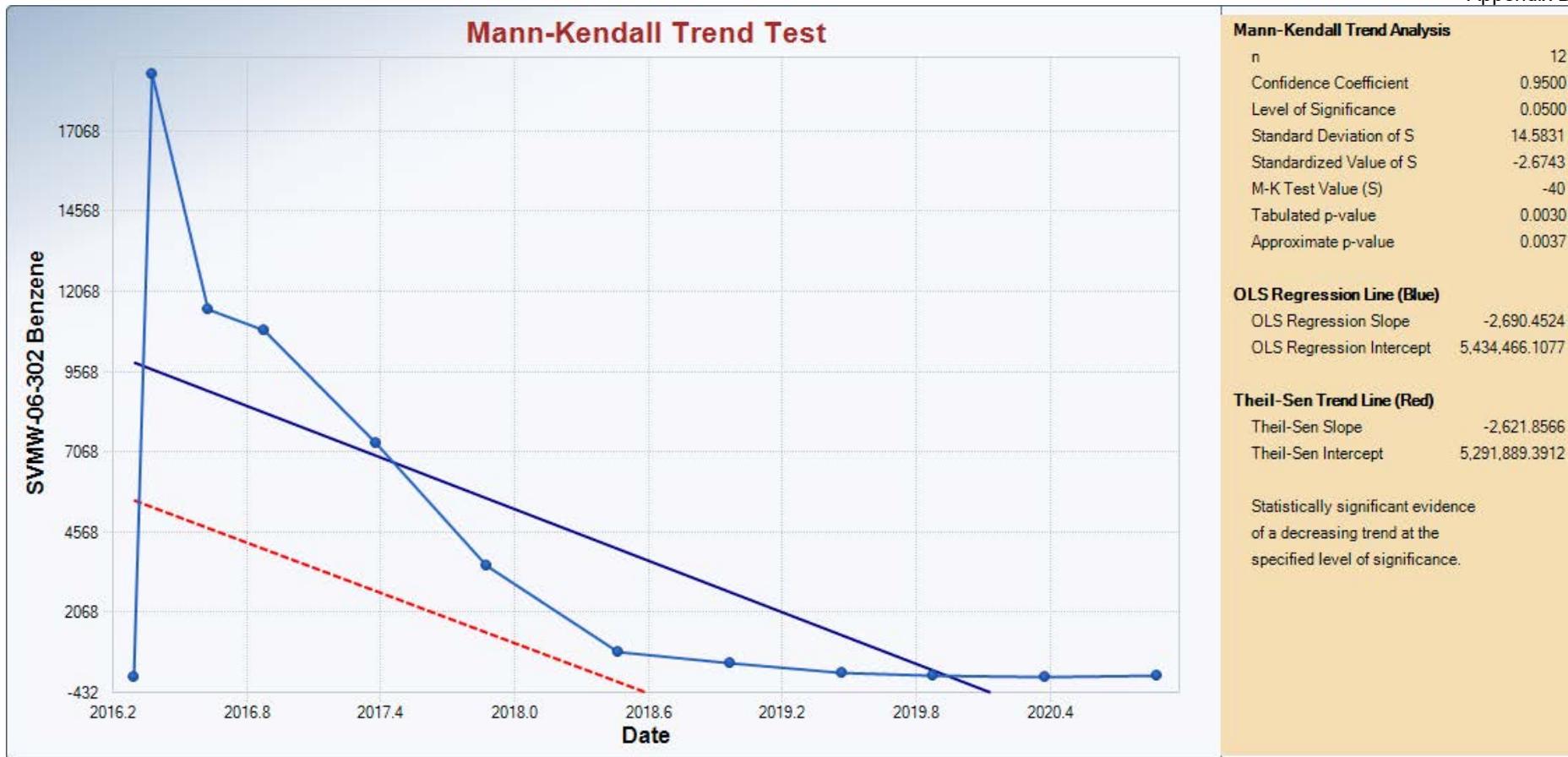
**OLS Regression Line (Blue)**

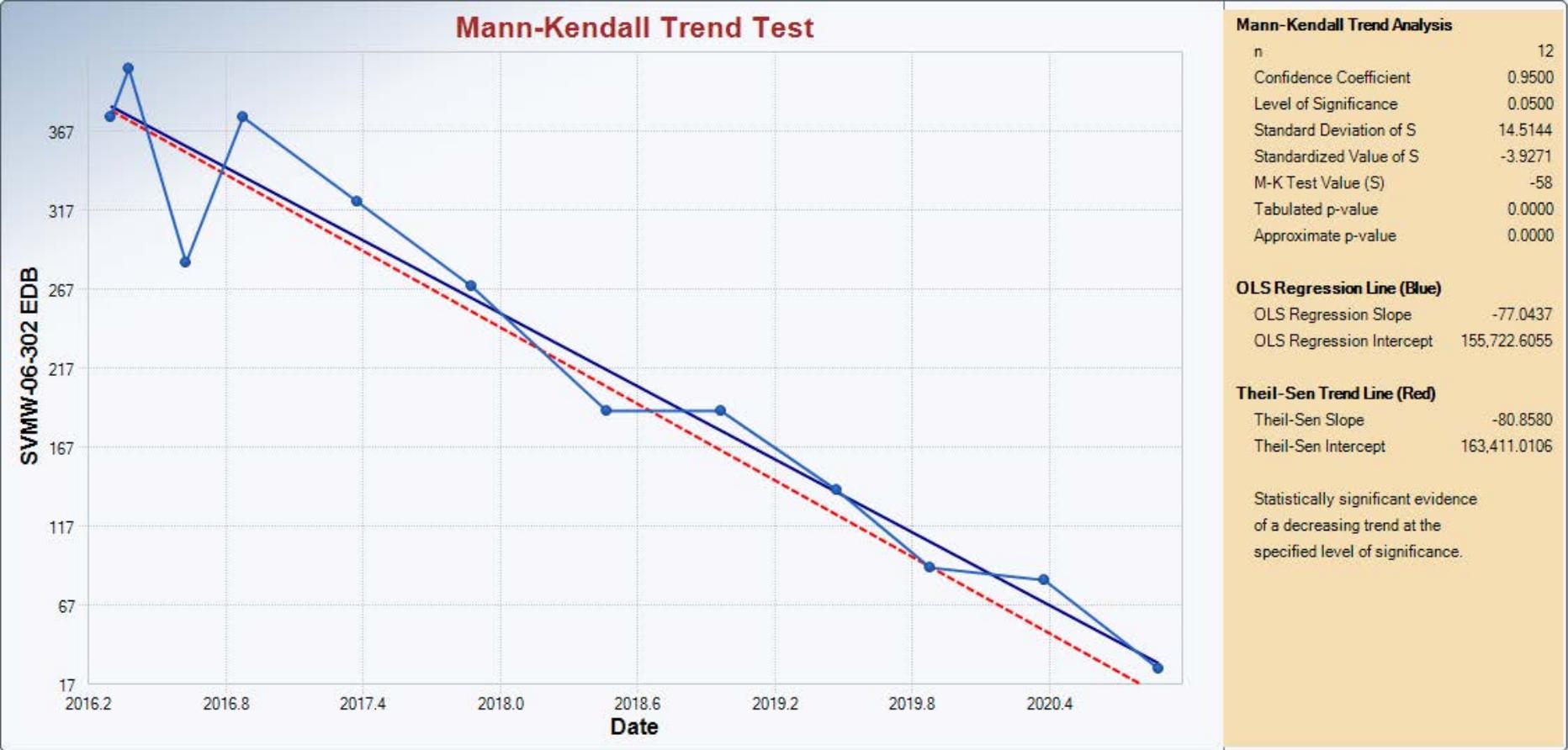
OLS Regression Slope	276.1470
OLS Regression Intercept	-556,460.5268

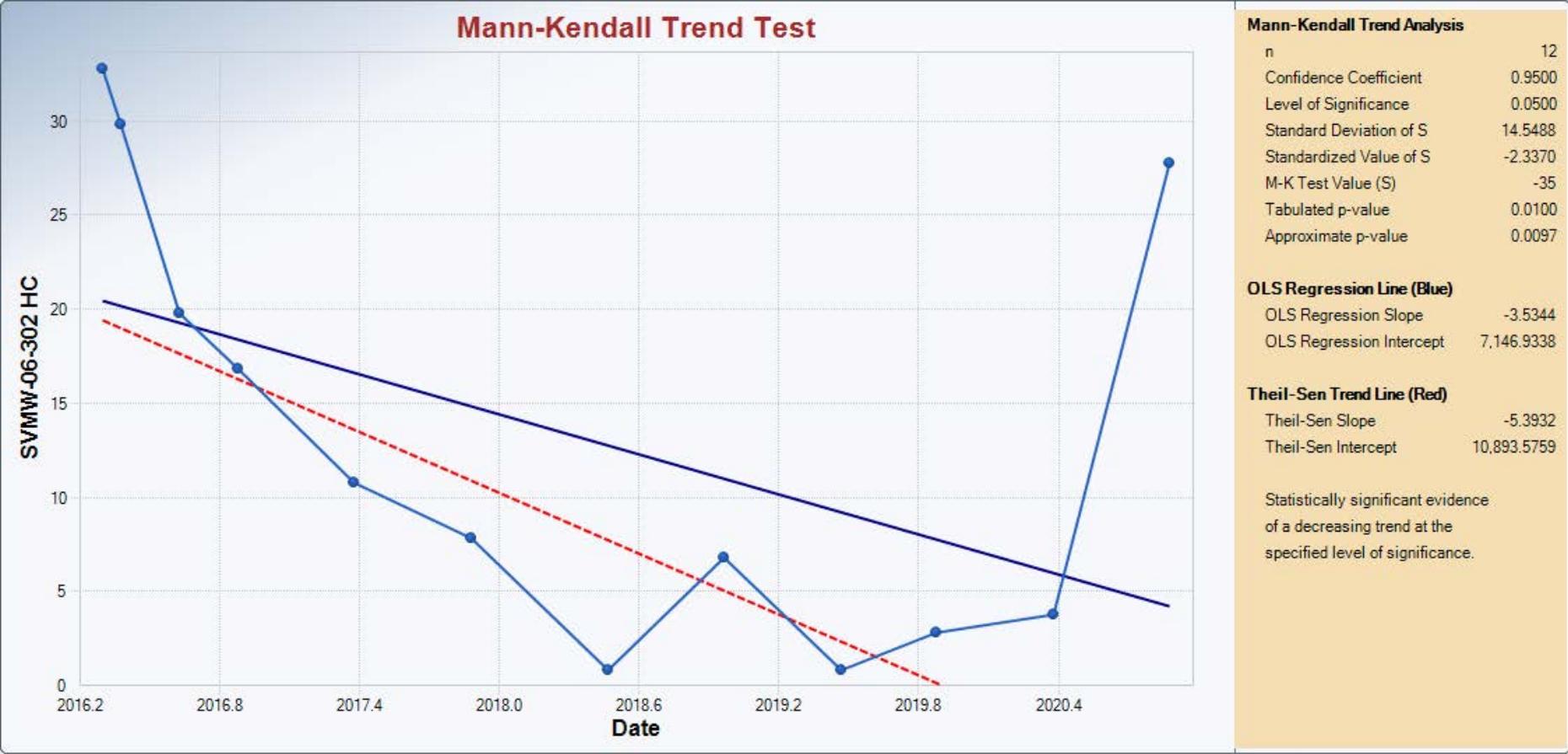
**Theil-Sen Trend Line (Red)**

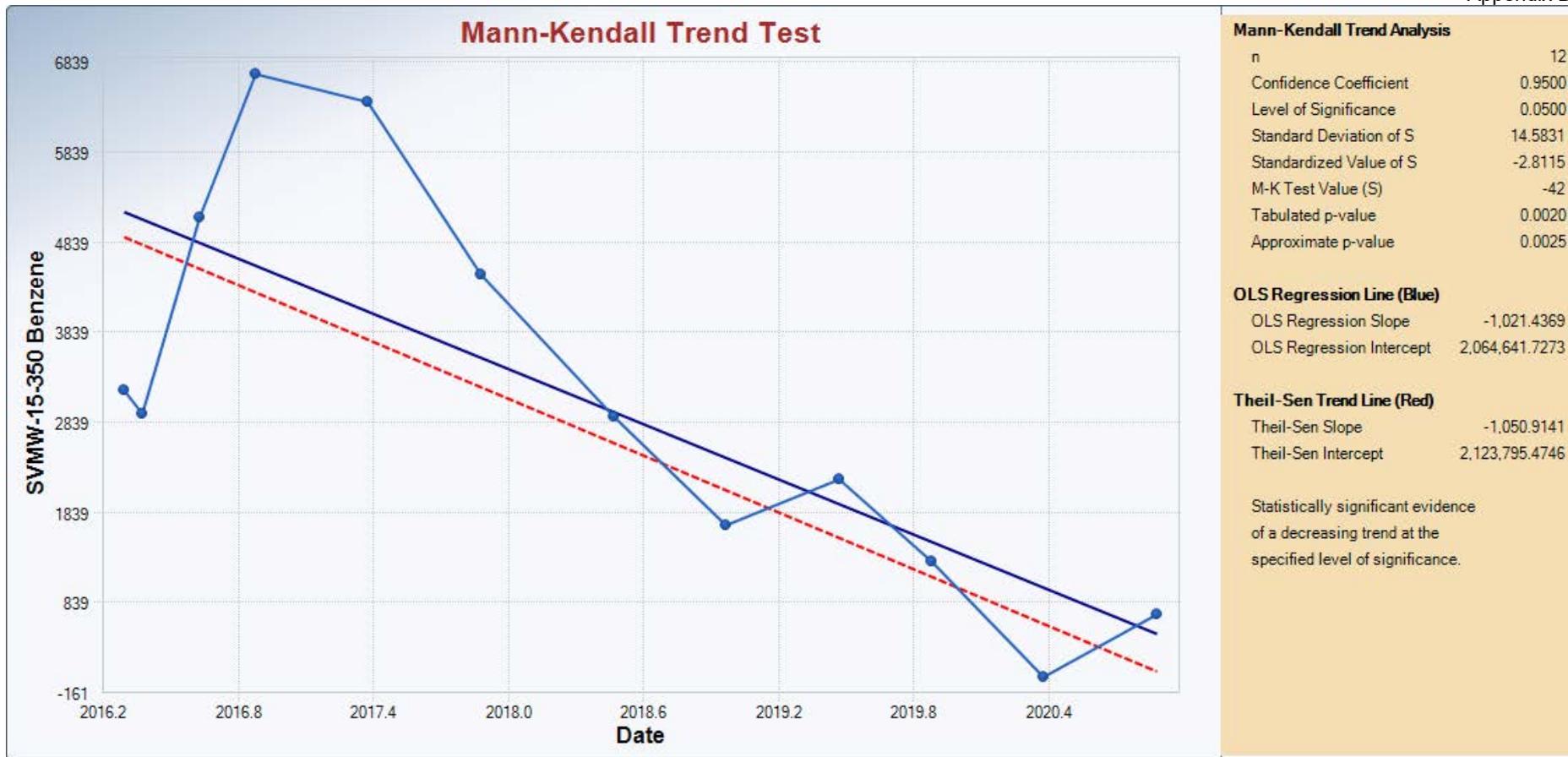
Theil-Sen Slope	290.5000
Theil-Sen Intercept	-585,394.3125

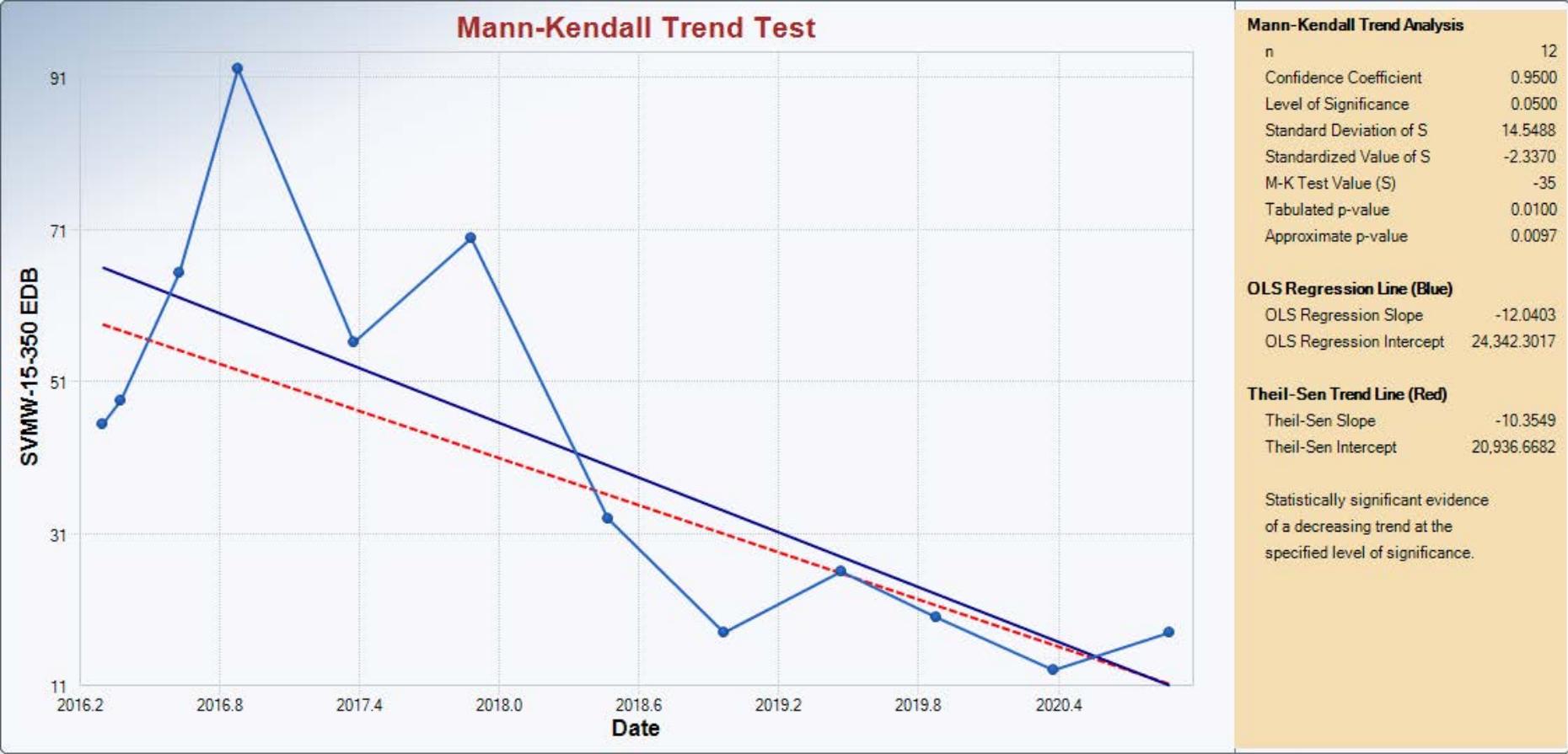
Statistically significant evidence of an increasing trend at the specified level of significance.

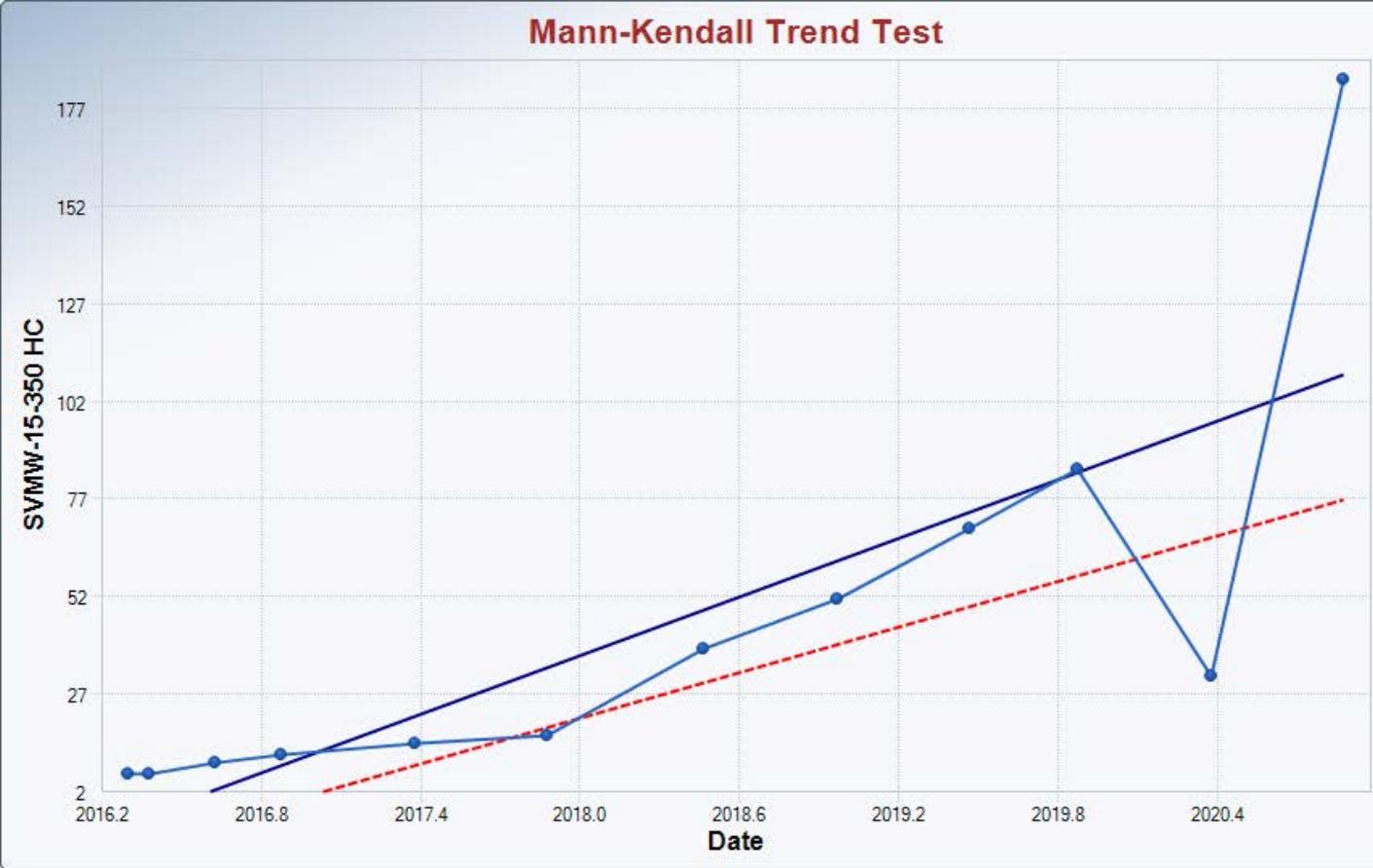




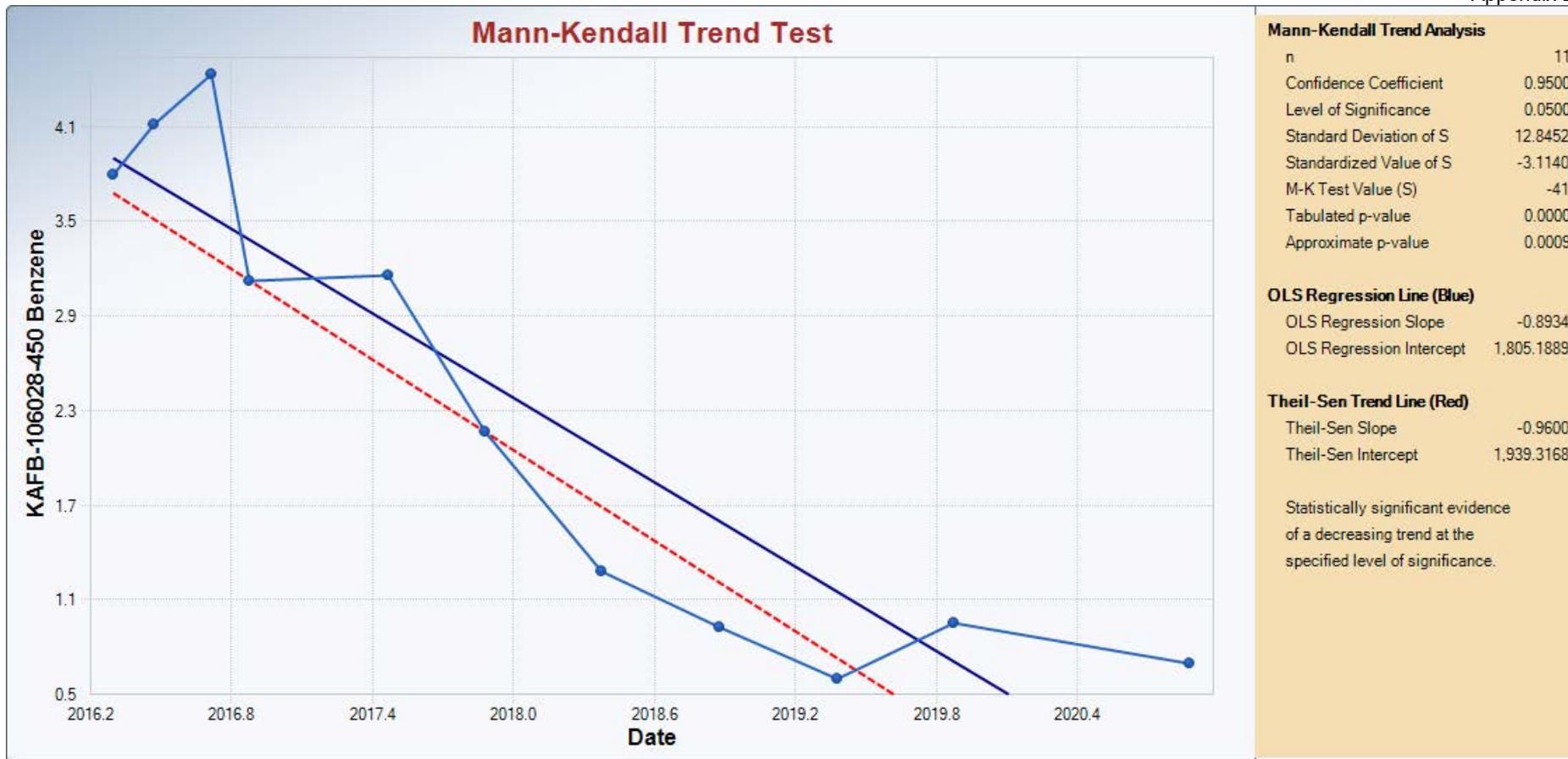


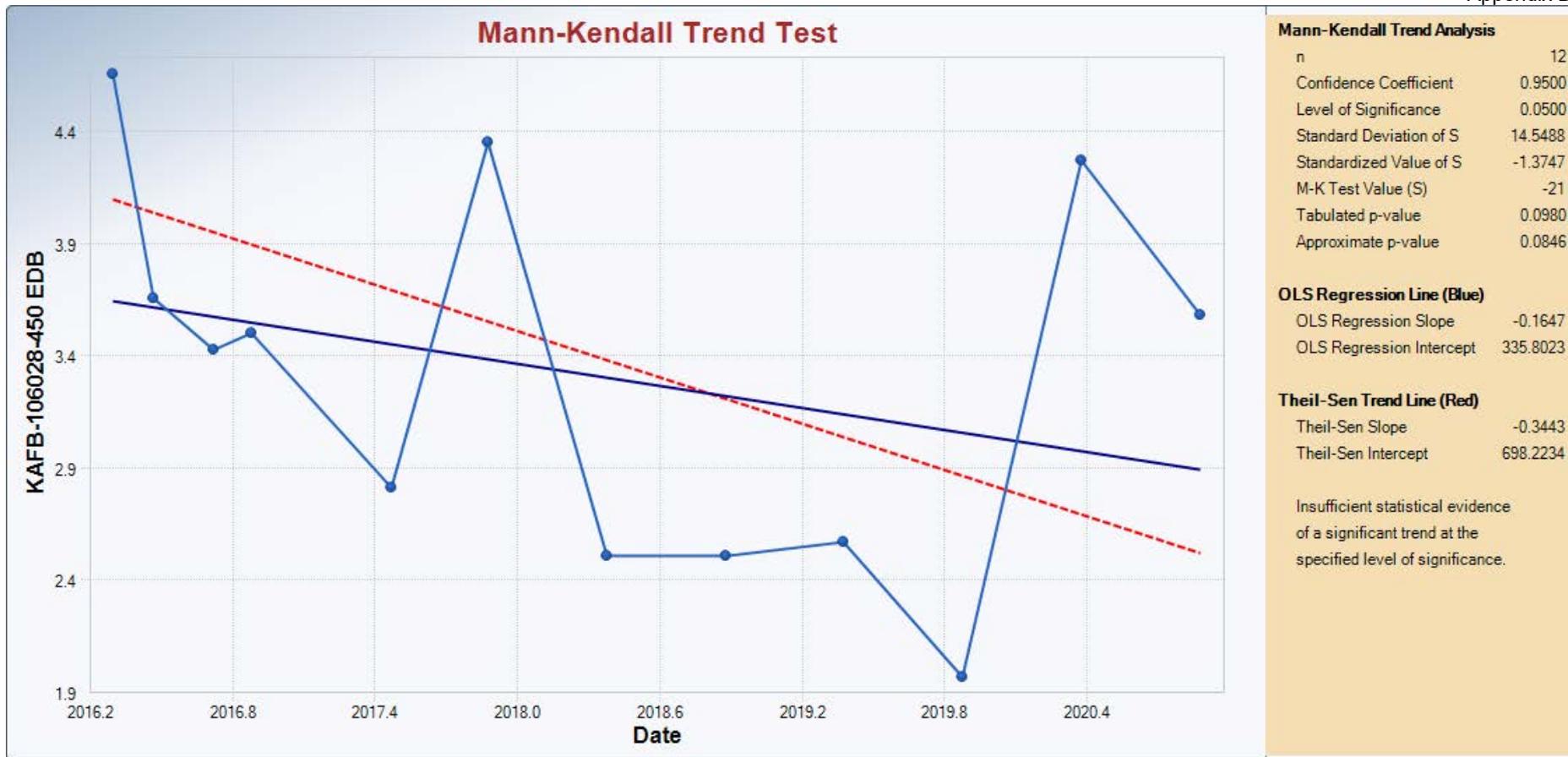


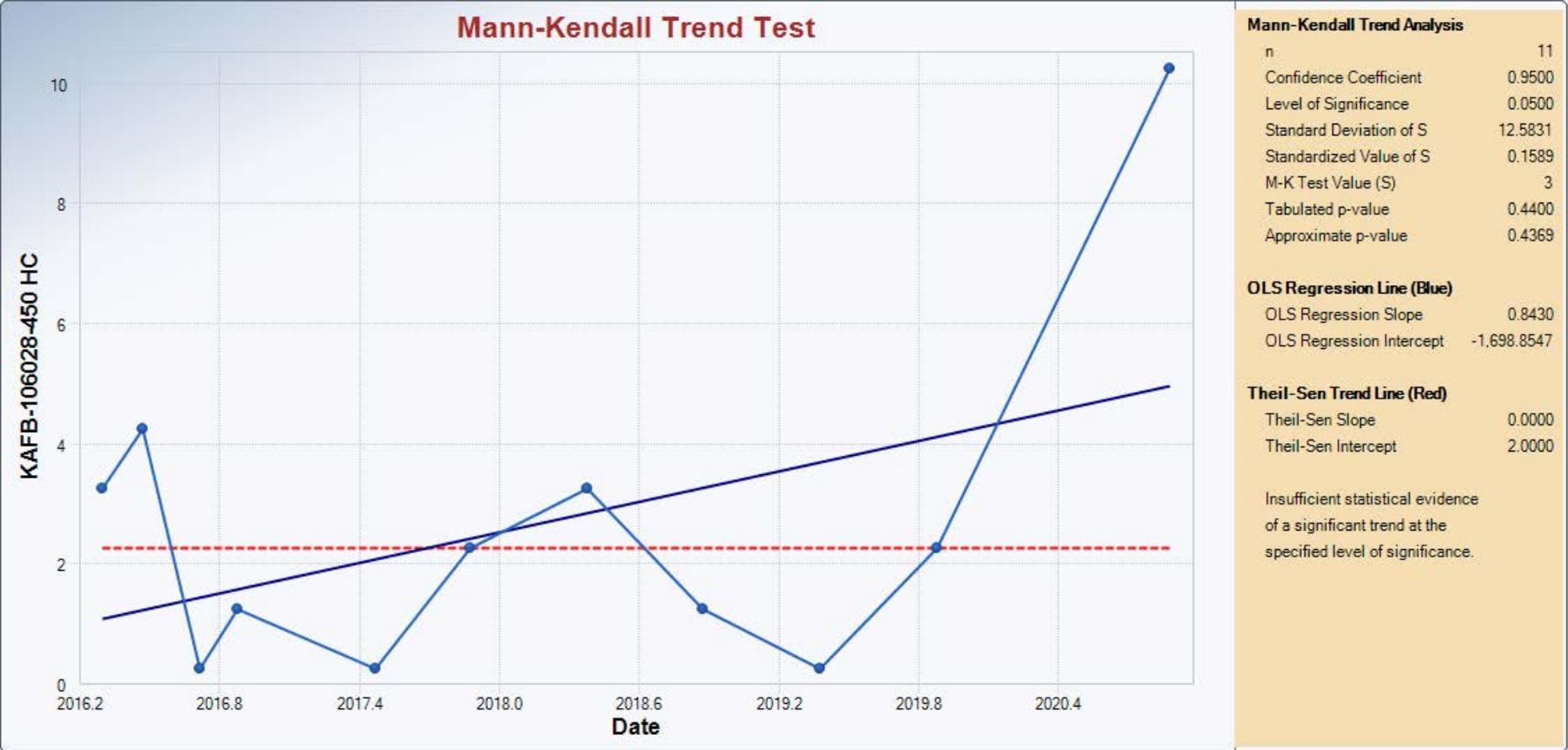


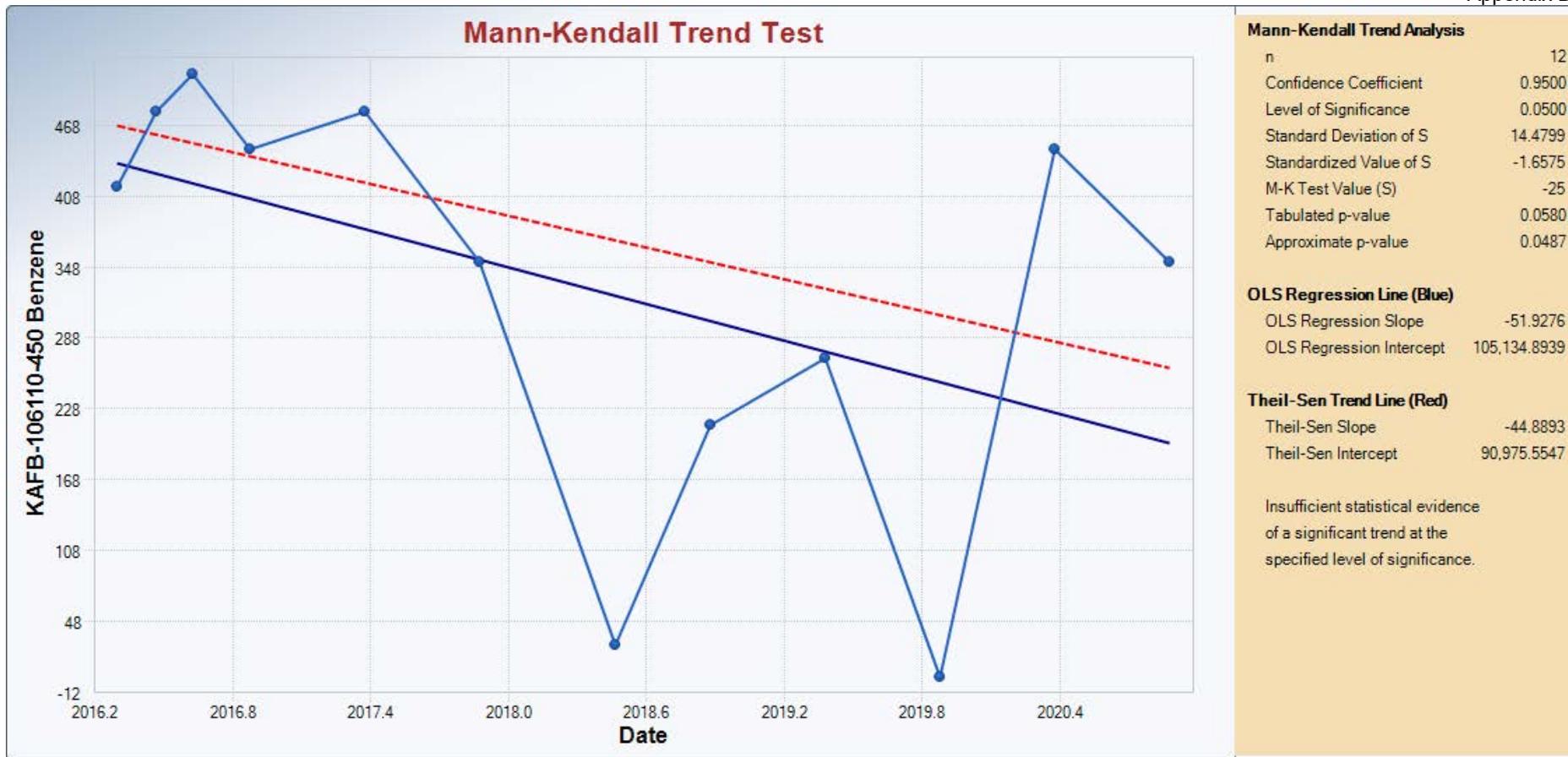


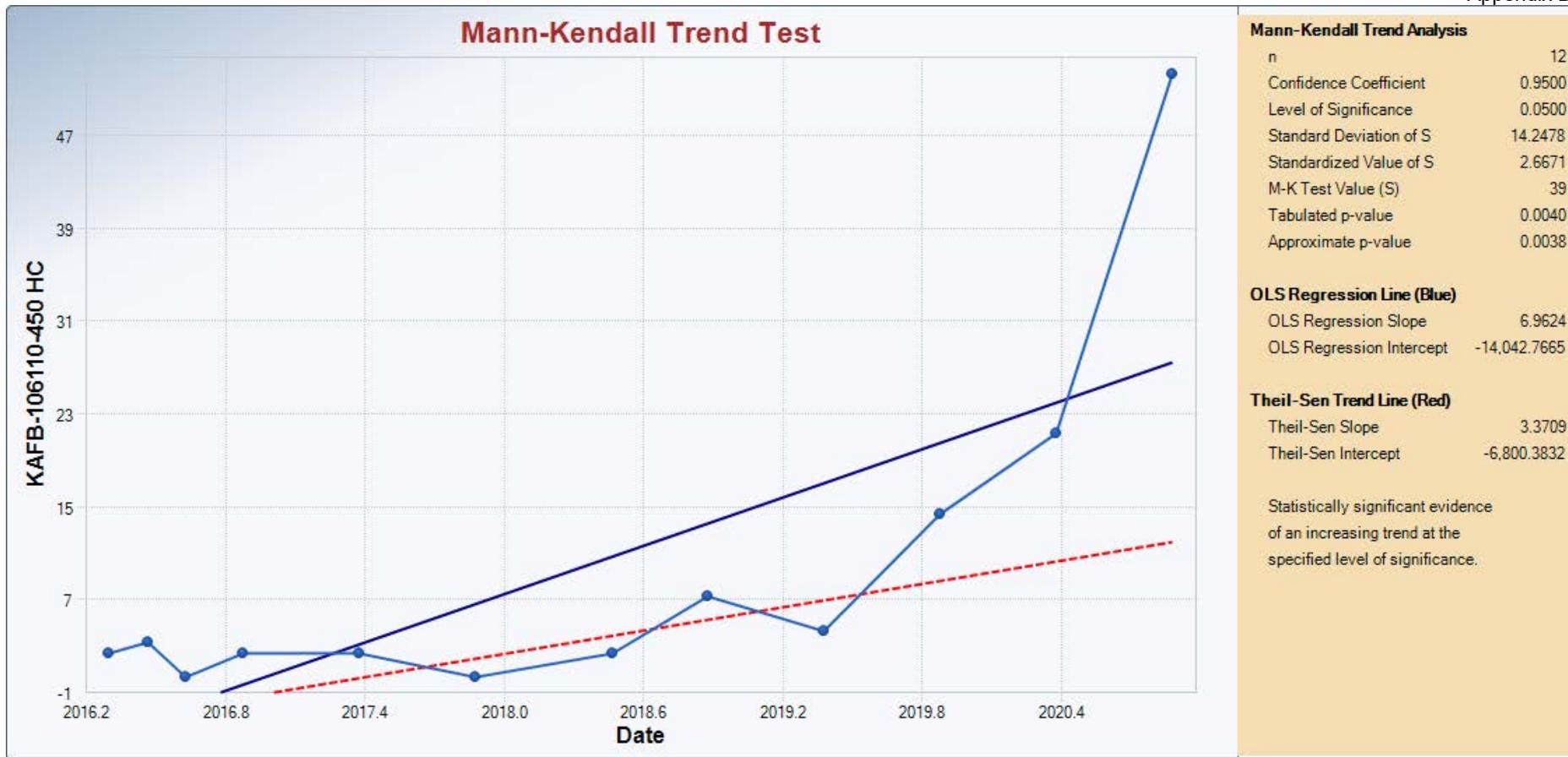
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5488
Standardized Value of S	3.8491
M-K Test Value (S)	57
Tabulated p-value	0.0000
Approximate p-value	0.0001
OLS Regression Line (Blue)	
OLS Regression Slope	25.0987
OLS Regression Intercept	-50,611.9479
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	19.5063
Theil-Sen Intercept	-39,342.6245
Statistically significant evidence of an increasing trend at the specified level of significance.	

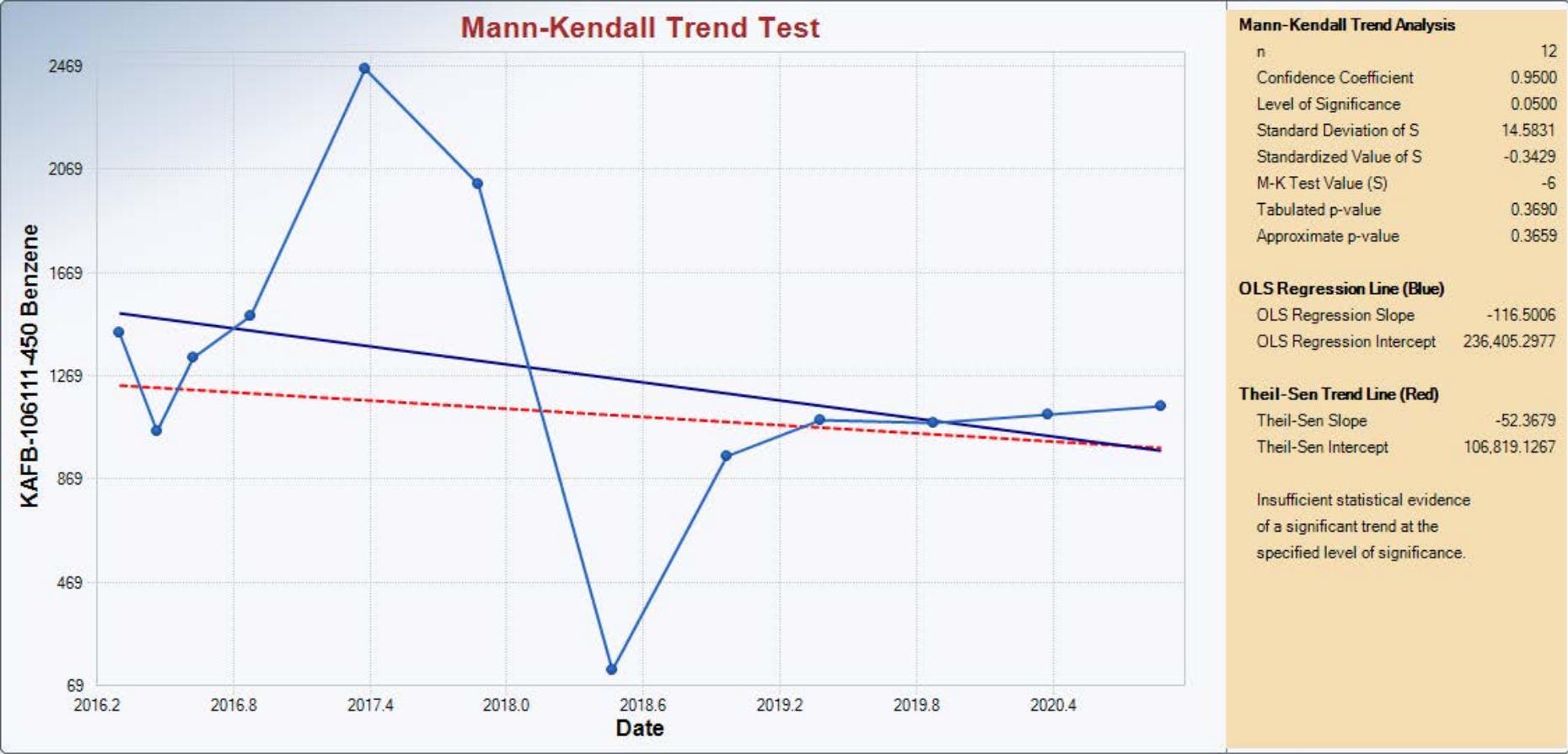


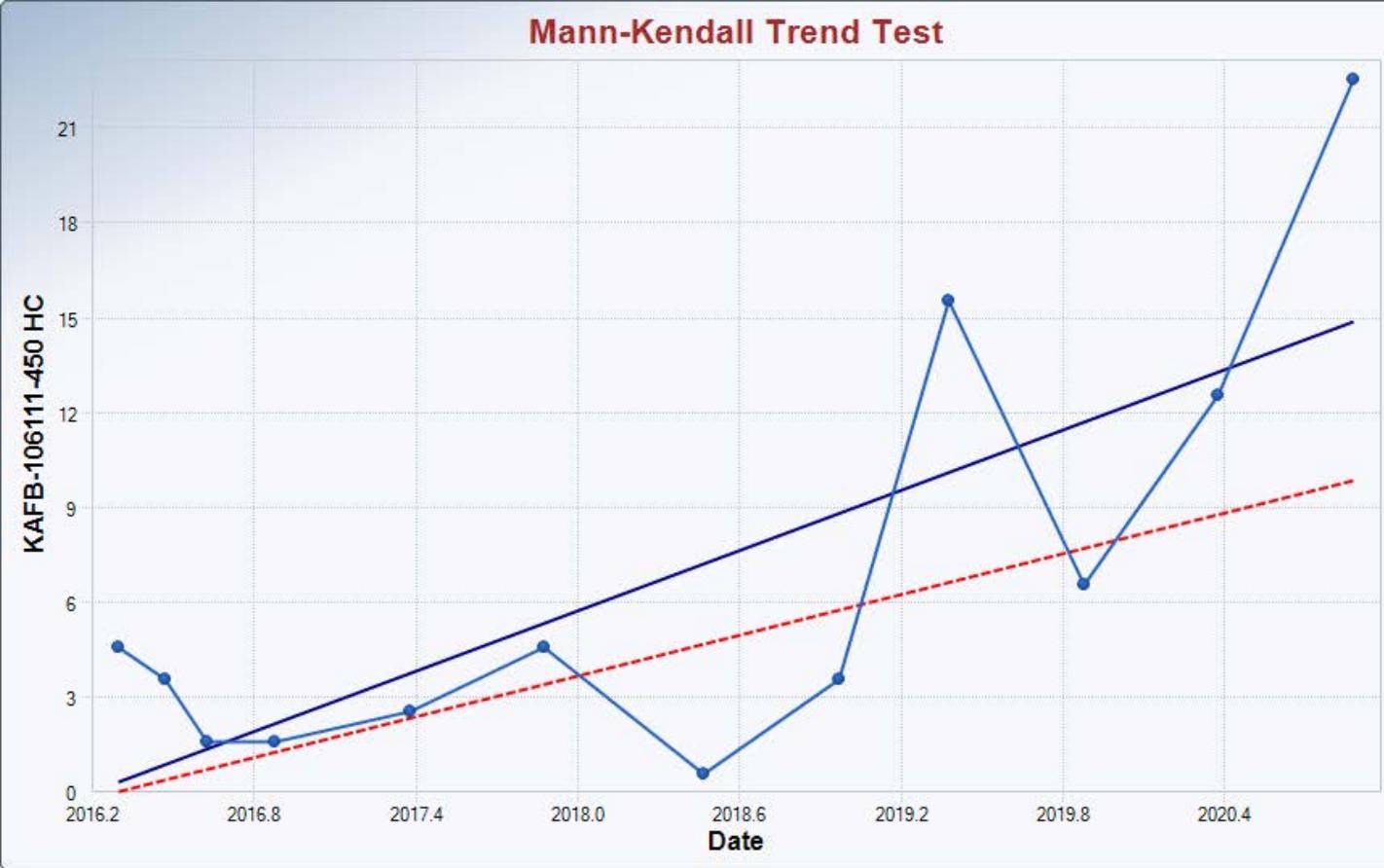












**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.4799
Standardized Value of S	1.9337
M-K Test Value (S)	29
Tabulated p-value	0.0310
Approximate p-value	0.0266

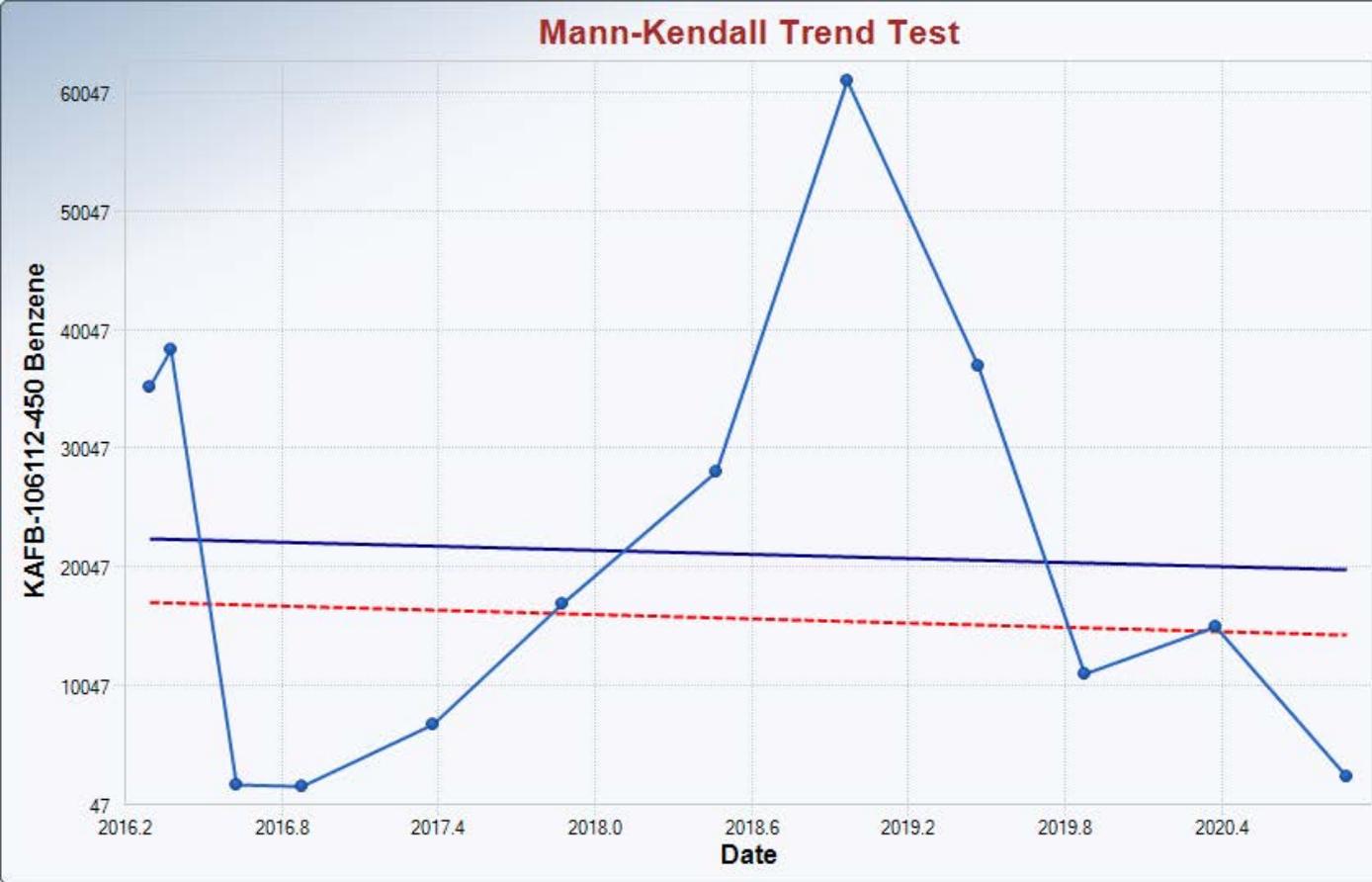
**OLS Regression Line (Blue)**

OLS Regression Slope	3.1774
OLS Regression Intercept	-6,405.6271

**Theil-Sen Trend Line (Red)**

Theil-Sen Slope	2.1509
Theil-Sen Intercept	-4,336.2753

Statistically significant evidence of an increasing trend at the specified level of significance.



**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-0.0686
M-K Test Value (S)	-2
Tabulated p-value	0.4730
Approximate p-value	0.4727

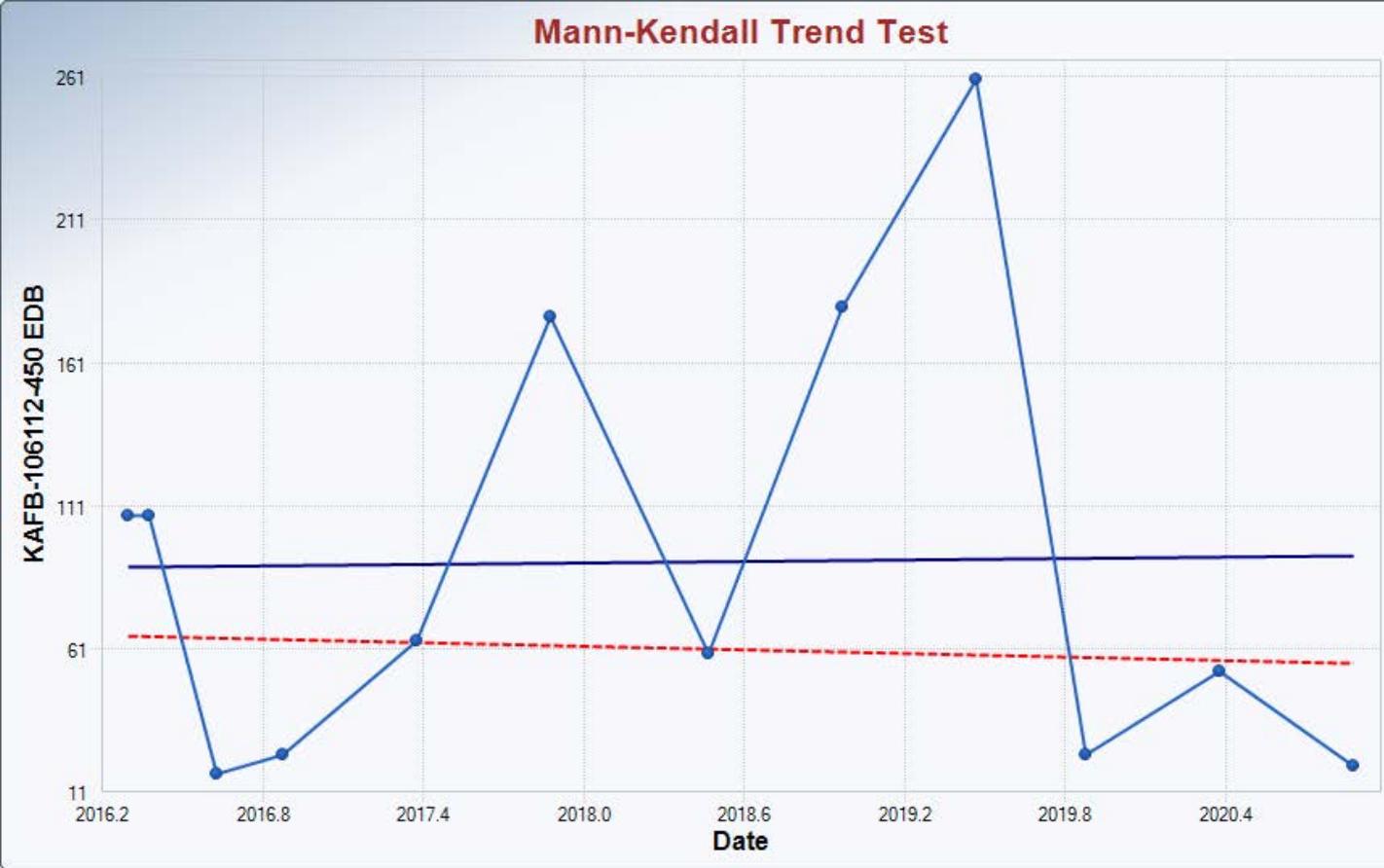
**OLS Regression Line (Blue)**

OLS Regression Slope	-571.0356
OLS Regression Intercept	1,173,721.9991

**Theil-Sen Trend Line (Red)**

Theil-Sen Slope	-602.5770
Theil-Sen Intercept	1,232,041.6278

Insufficient statistical evidence of a significant trend at the specified level of significance.



**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5488
Standardized Value of S	-0.1375
M-K Test Value (S)	-3
Tabulated p-value	0.4730
Approximate p-value	0.4453

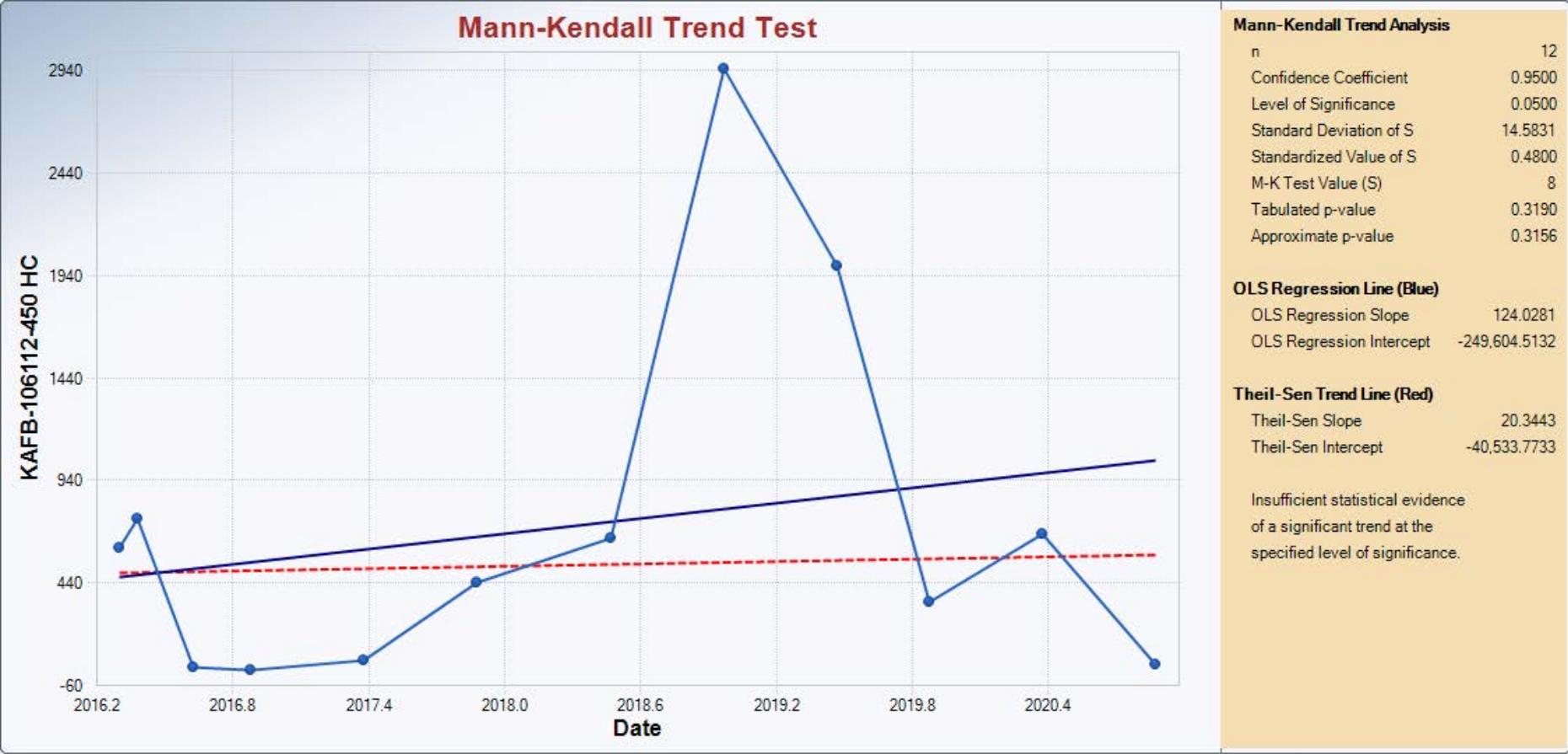
**OLS Regression Line (Blue)**

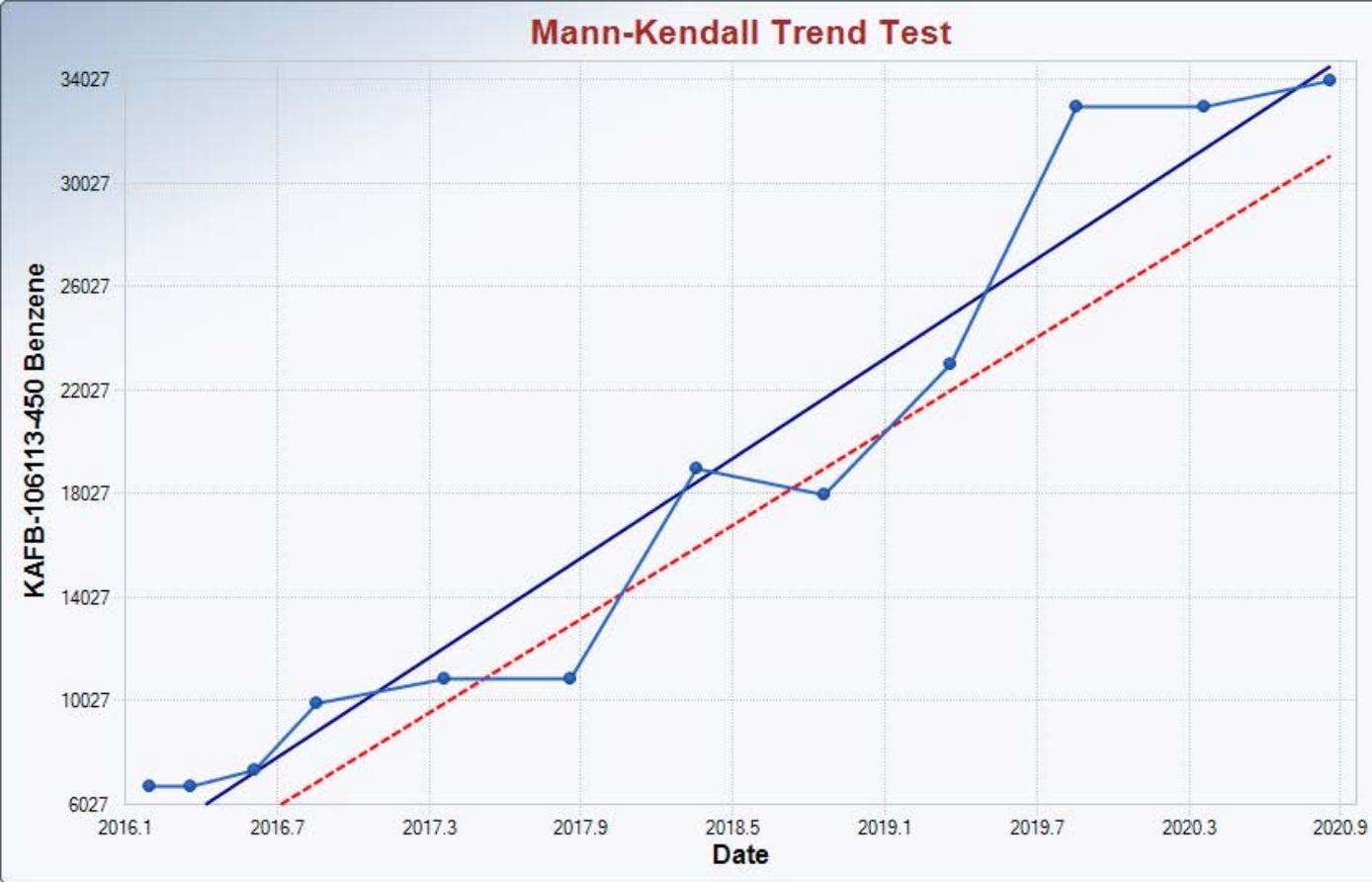
OLS Regression Slope	0.9368
OLS Regression Intercept	-1,799.6365

**Theil-Sen Trend Line (Red)**

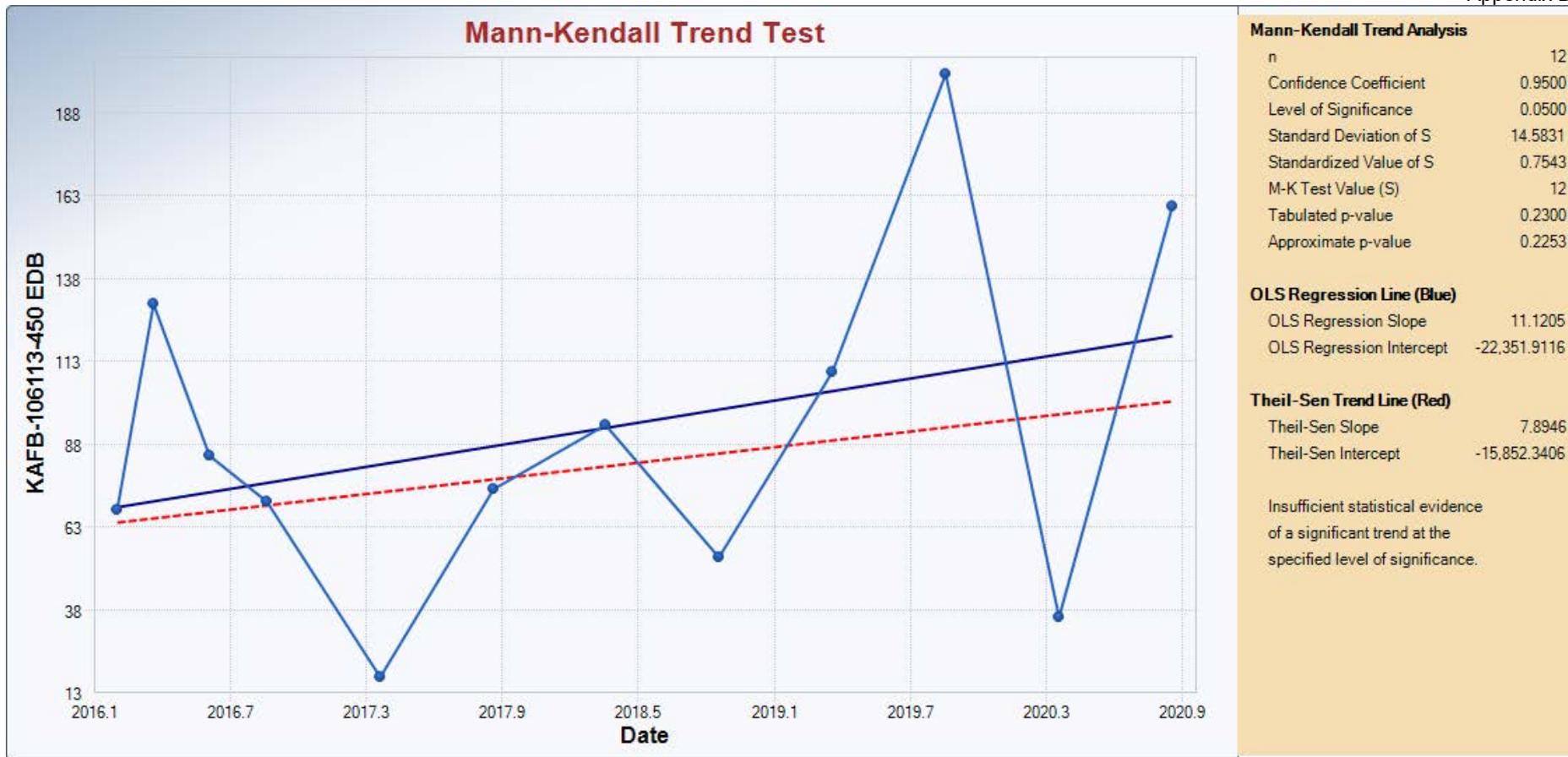
Theil-Sen Slope	-2.0483
Theil-Sen Intercept	4,195.1734

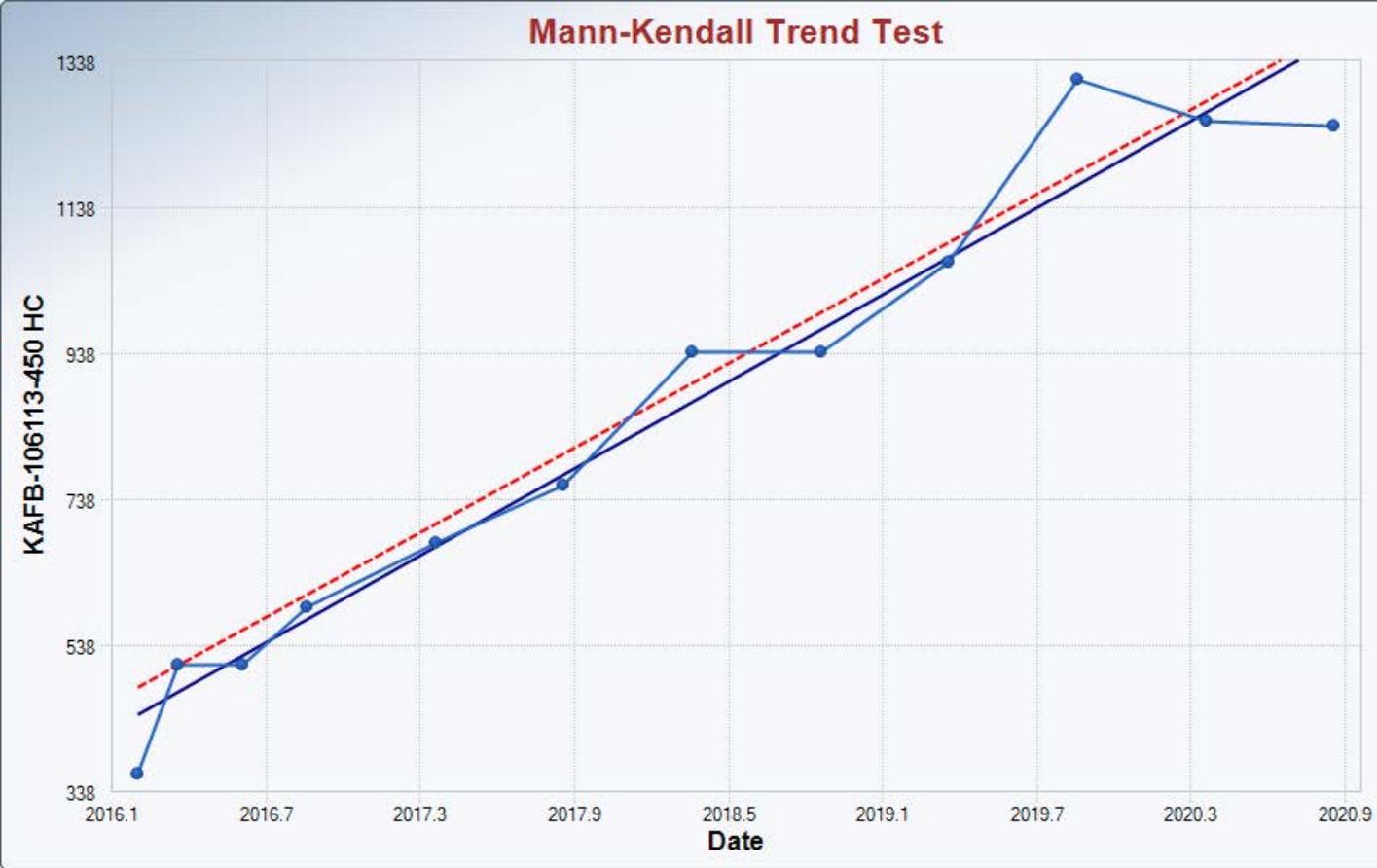
Insufficient statistical evidence of a significant trend at the specified level of significance.



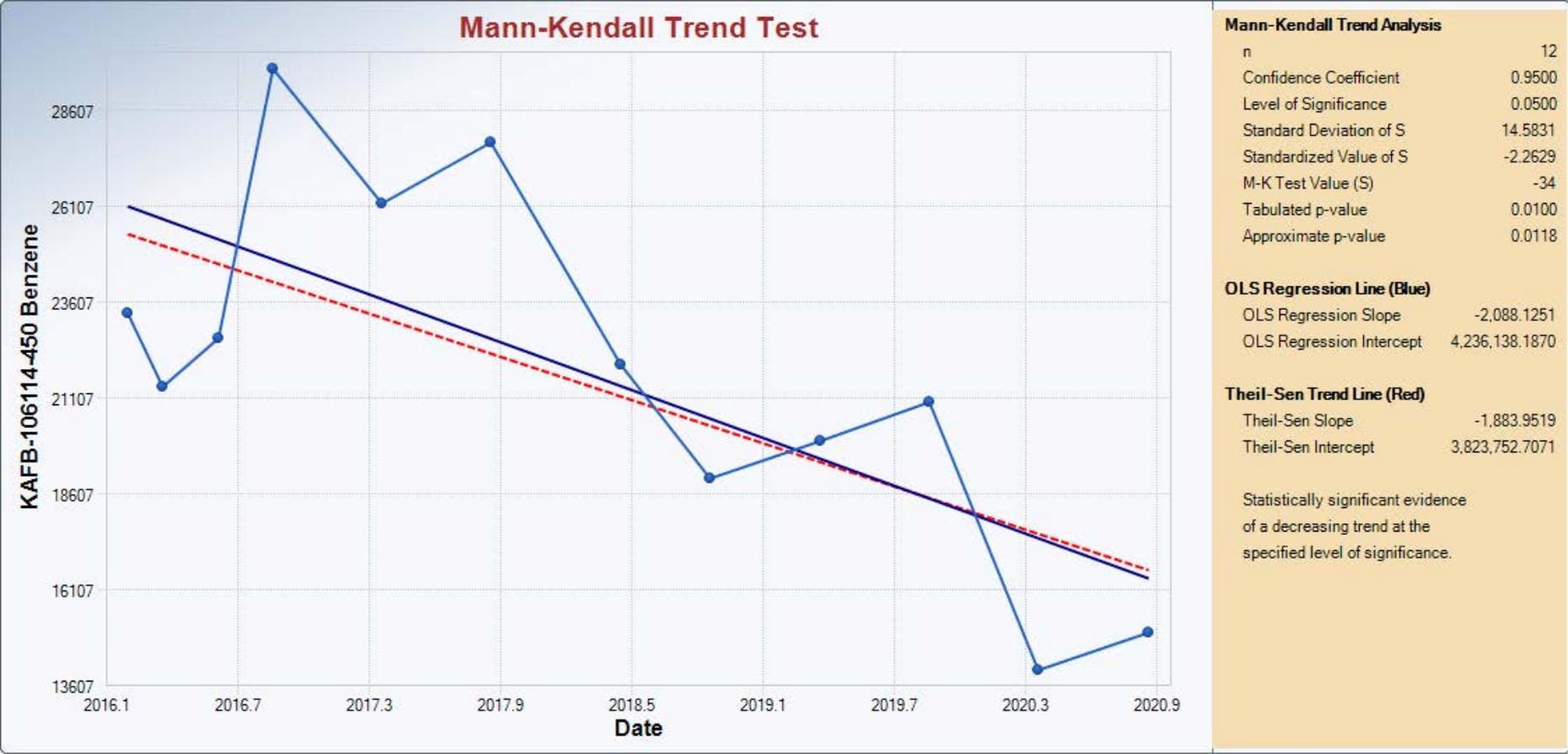


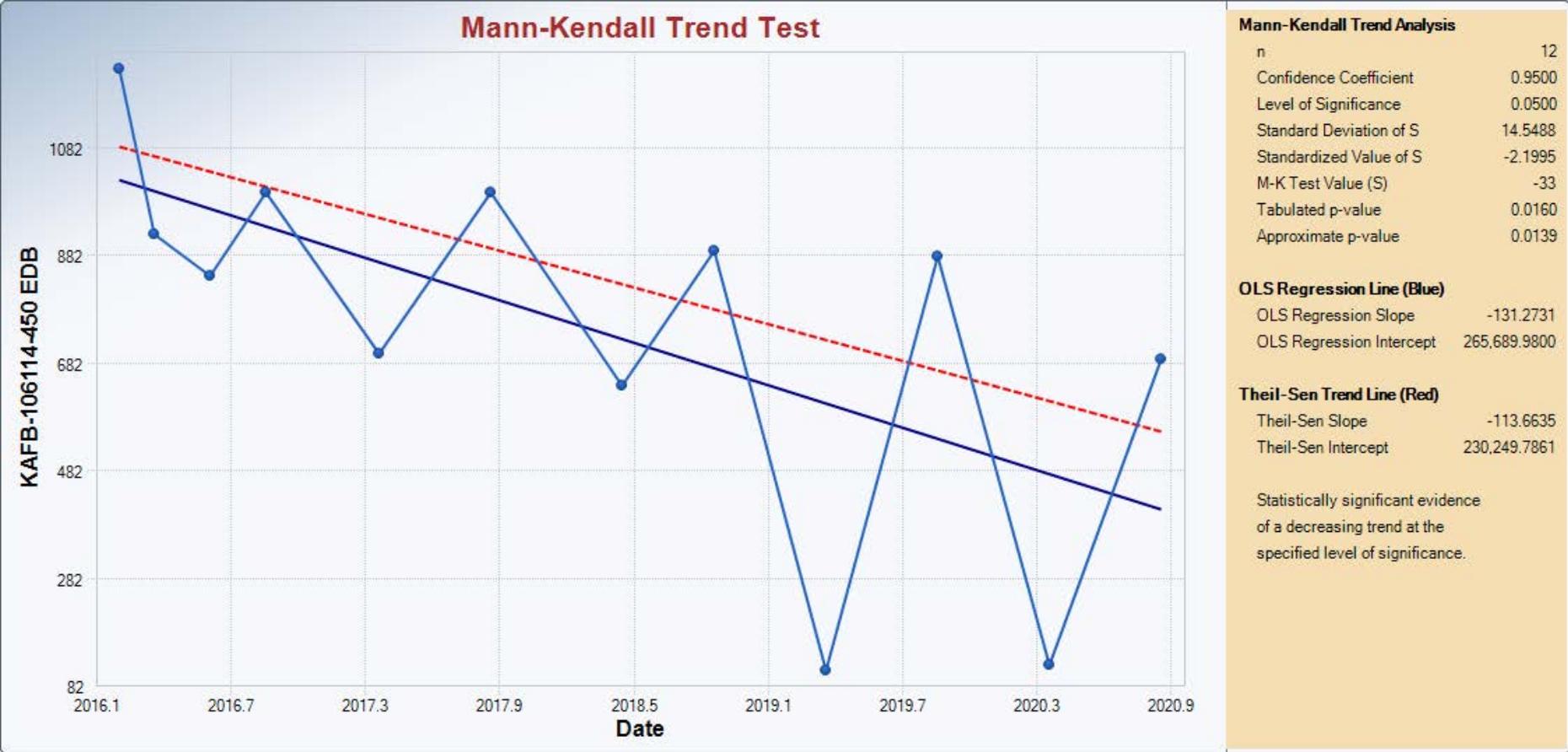
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.4799
Standardized Value of S	4.1437
M-K Test Value (S)	61
Tabulated p-value	0.0000
Approximate p-value	0.0000
OLS Regression Line (Blue)	
OLS Regression Slope	6,439.6053
OLS Regression Intercept	-12,978.792.5095
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	6,066.8712
Theil-Sen Intercept	-12,229.000.4010
Statistically significant evidence of an increasing trend at the specified level of significance.	

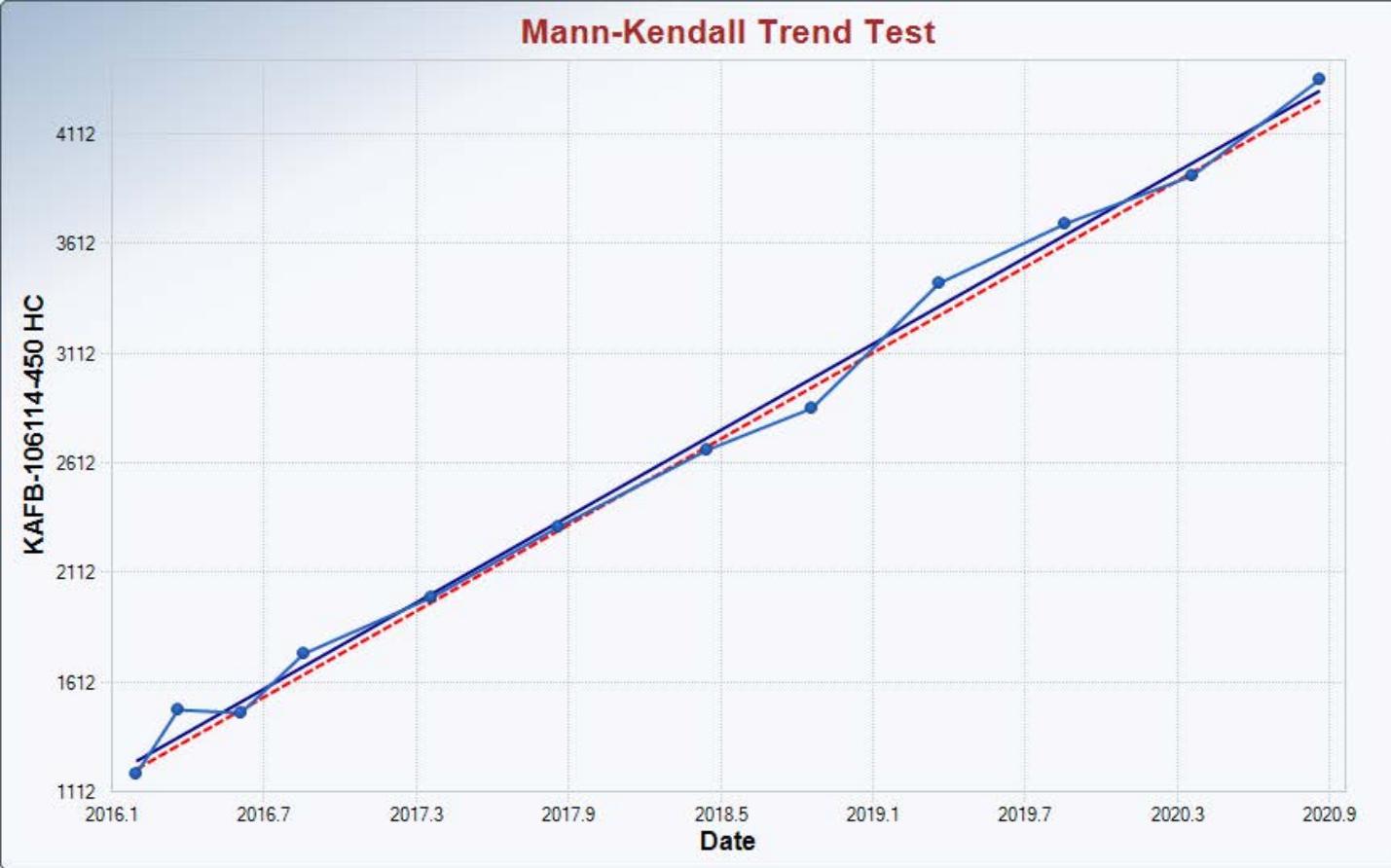




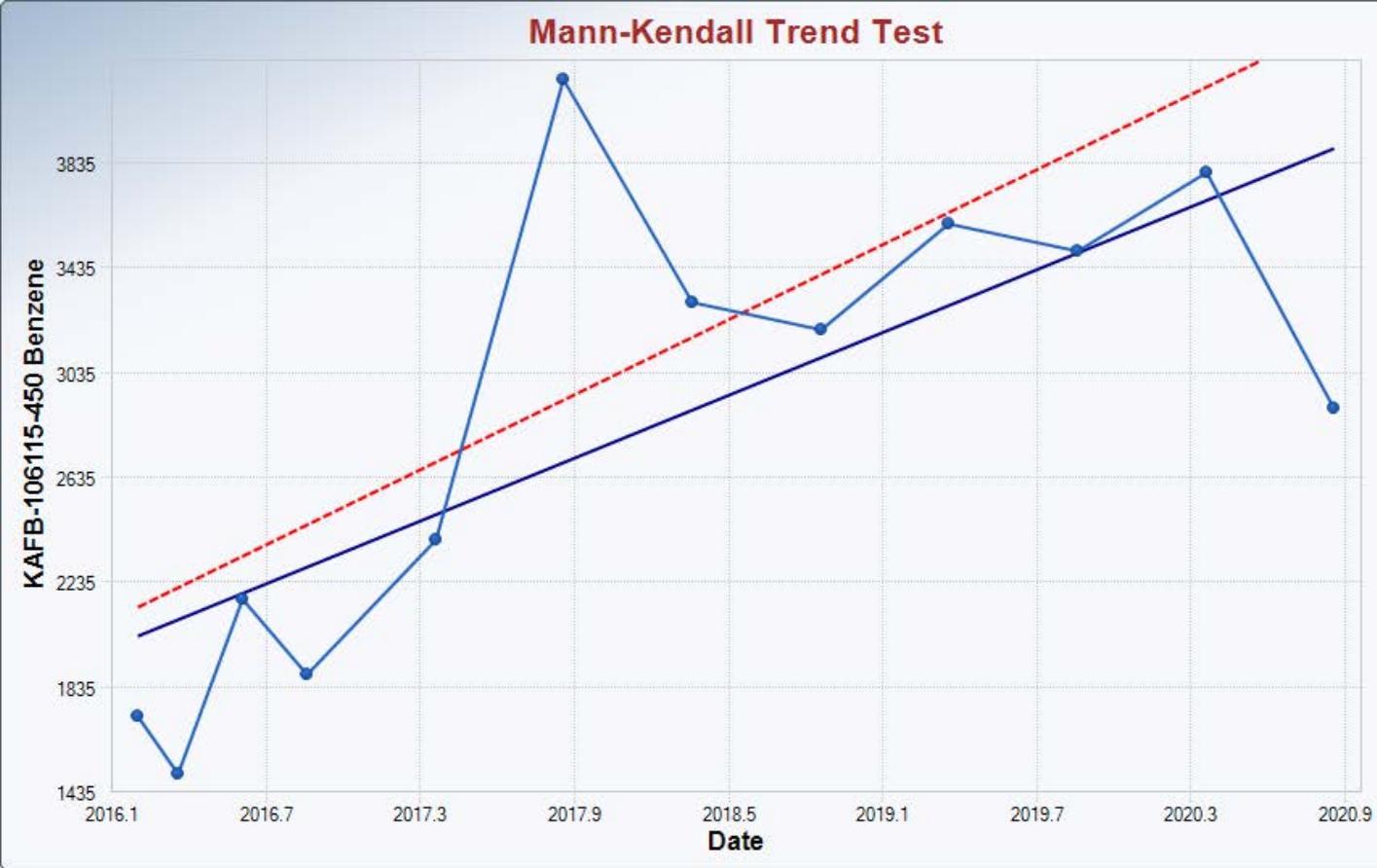
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5488
Standardized Value of S	3.8491
M-K Test Value (S)	57
Tabulated p-value	0.0000
Approximate p-value	0.0001
<b>OLS Regression Line (Blue)</b>	
OLS Regression Slope	197.8076
OLS Regression Intercept	-398.369.0815
<b>Theil-Sen Trend Line (Red)</b>	
Theil-Sen Slope	192.8333
Theil-Sen Intercept	-388.303.5933
Statistically significant evidence of an increasing trend at the specified level of significance.	







Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	4.3201
M-K Test Value (S)	64
Tabulated p-value	0.0000
Approximate p-value	0.0000
<b>OLS Regression Line (Blue)</b>	
OLS Regression Slope	656.3243
OLS Regression Intercept	-1,322,011.3906
<b>Theil-Sen Trend Line (Red)</b>	
Theil-Sen Slope	654.8501
Theil-Sen Intercept	-1,319,074.4204
Statistically significant evidence of an increasing trend at the specified level of significance.	



Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	2.4000
M-K Test Value (S)	36
Tabulated p-value	0.0070
Approximate p-value	0.0082

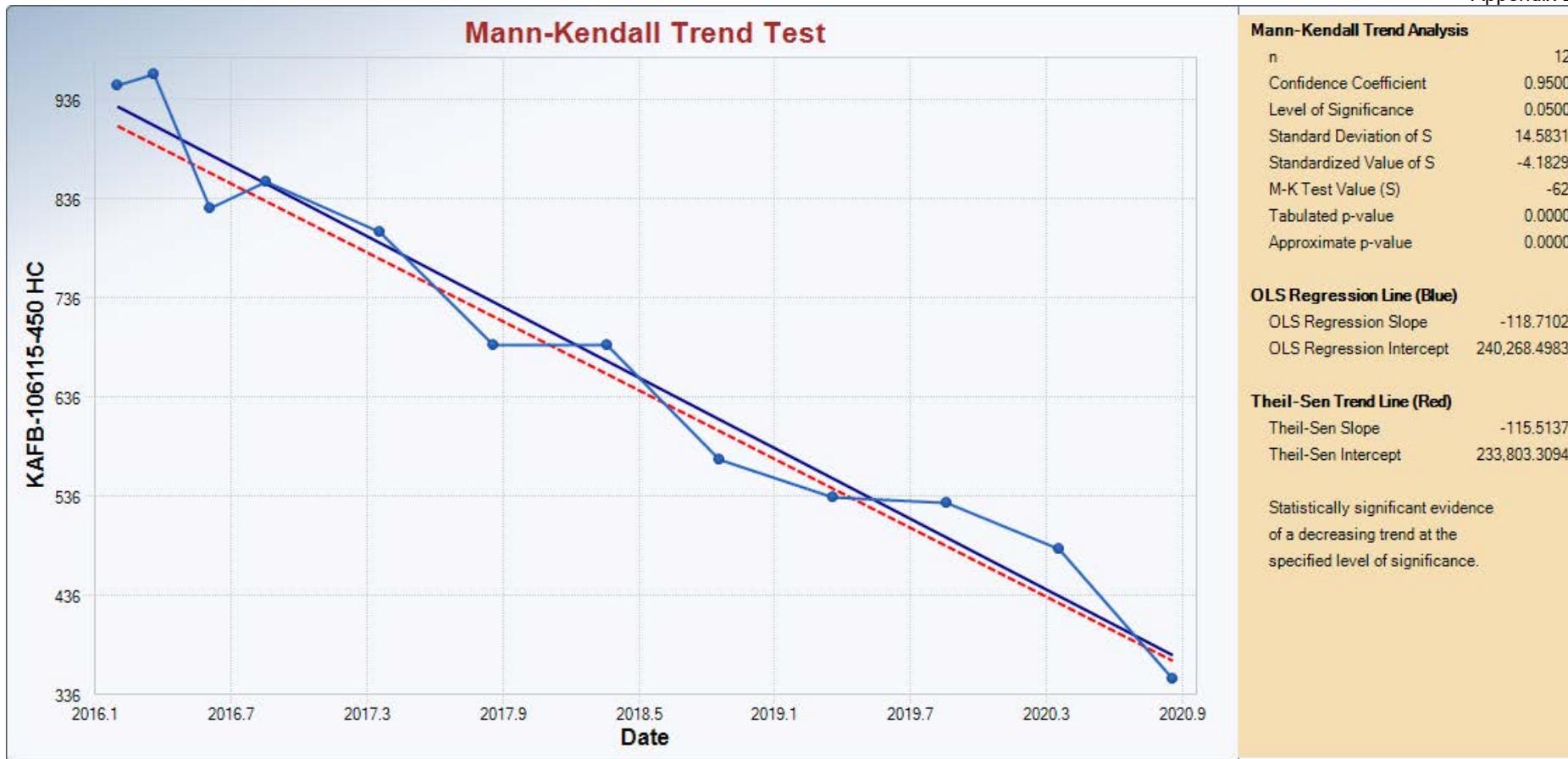
  

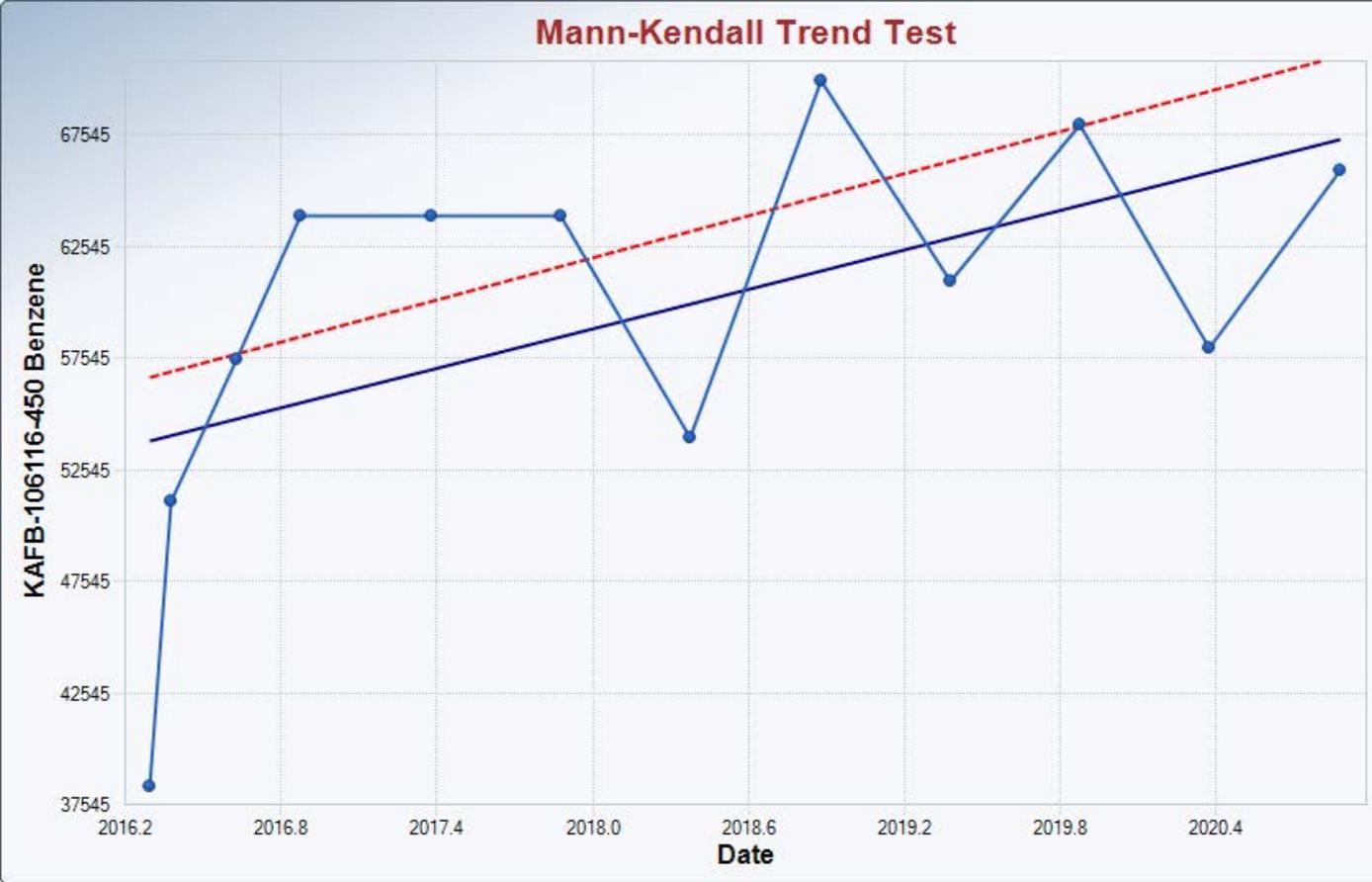
OLS Regression Line (Blue)	
OLS Regression Slope	398.4330
OLS Regression Intercept	-801,278.0526

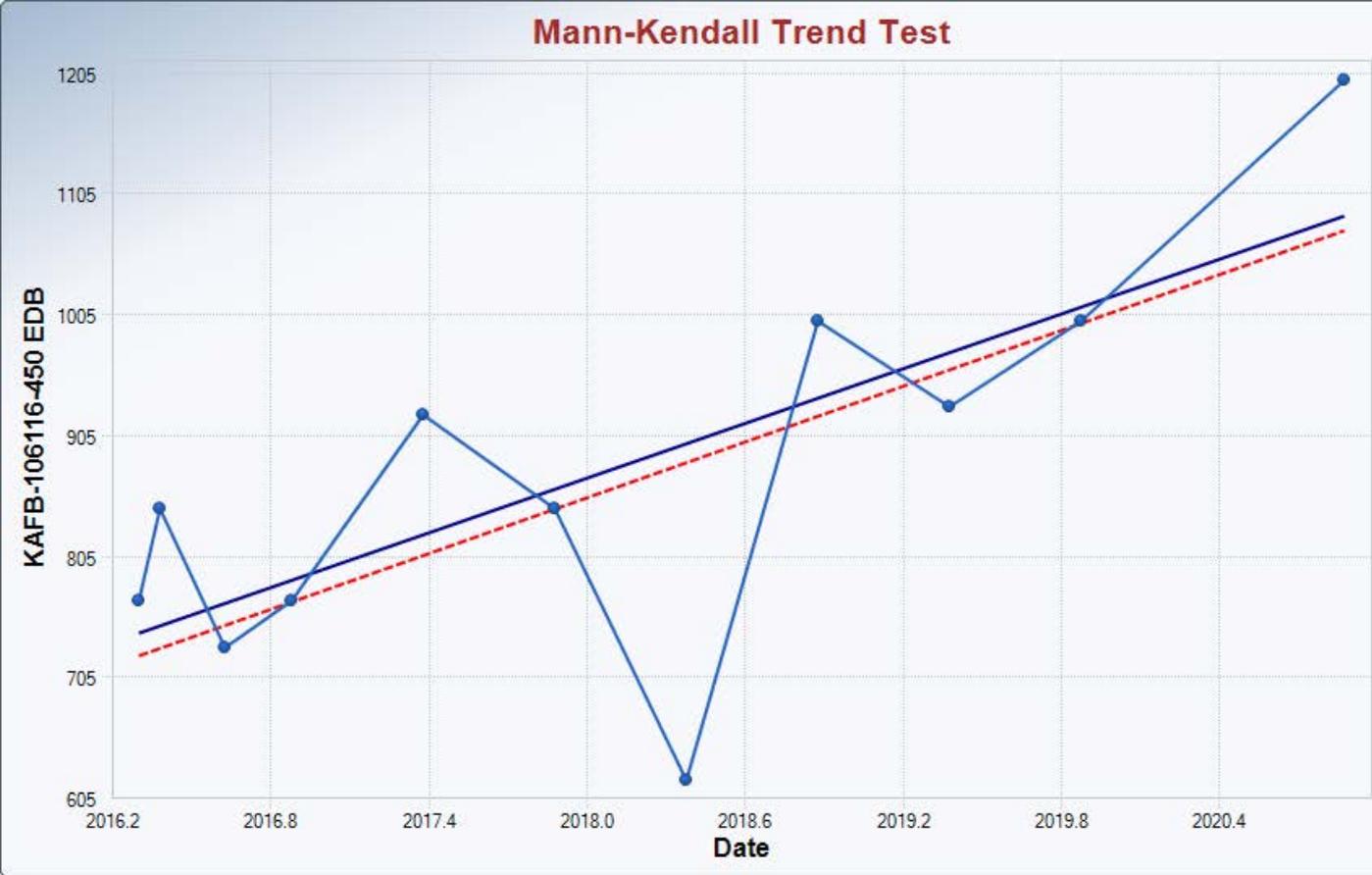
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	476.4667
Theil-Sen Intercept	-958,497.9049

Statistically significant evidence of an increasing trend at the specified level of significance.

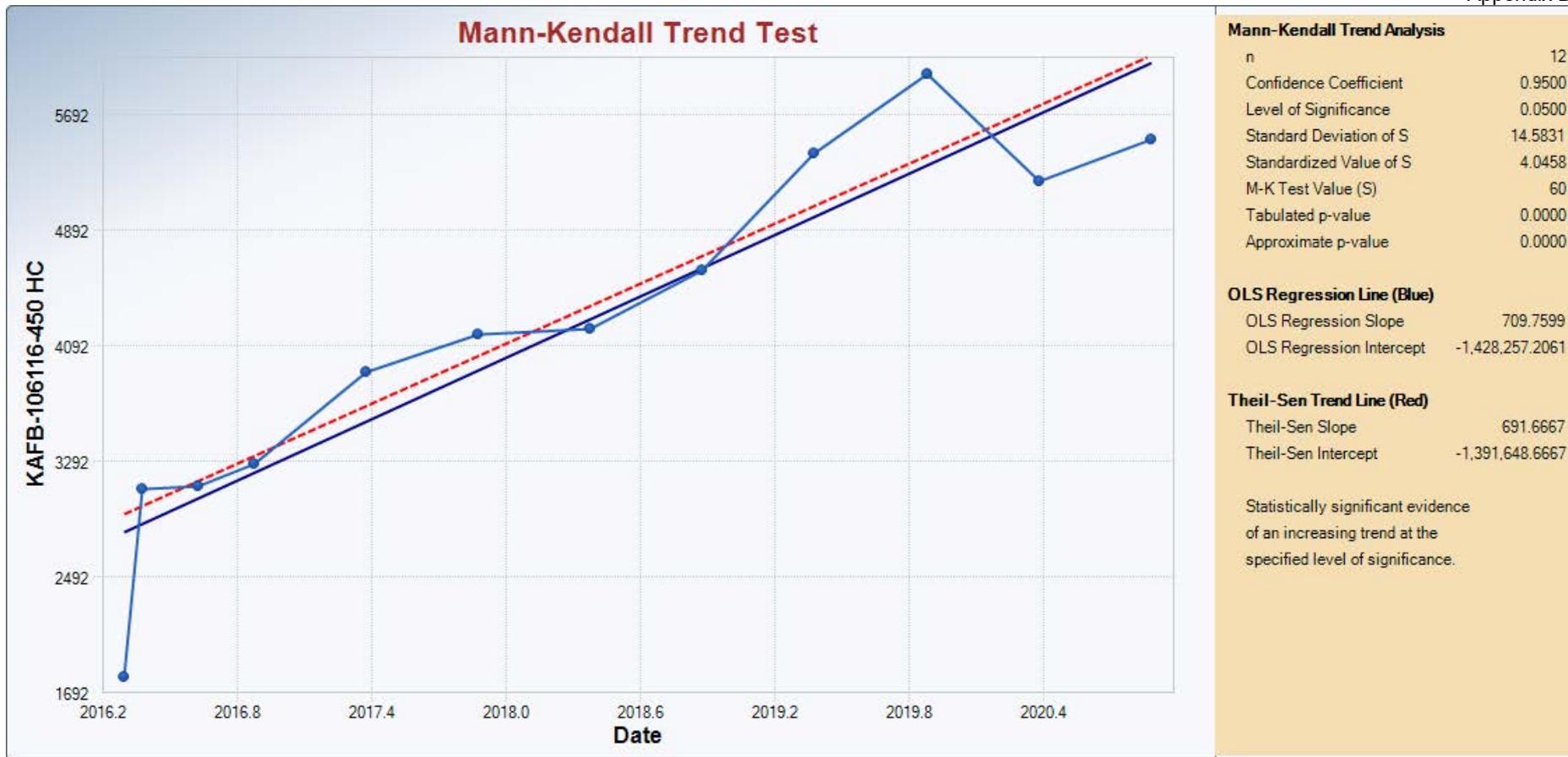


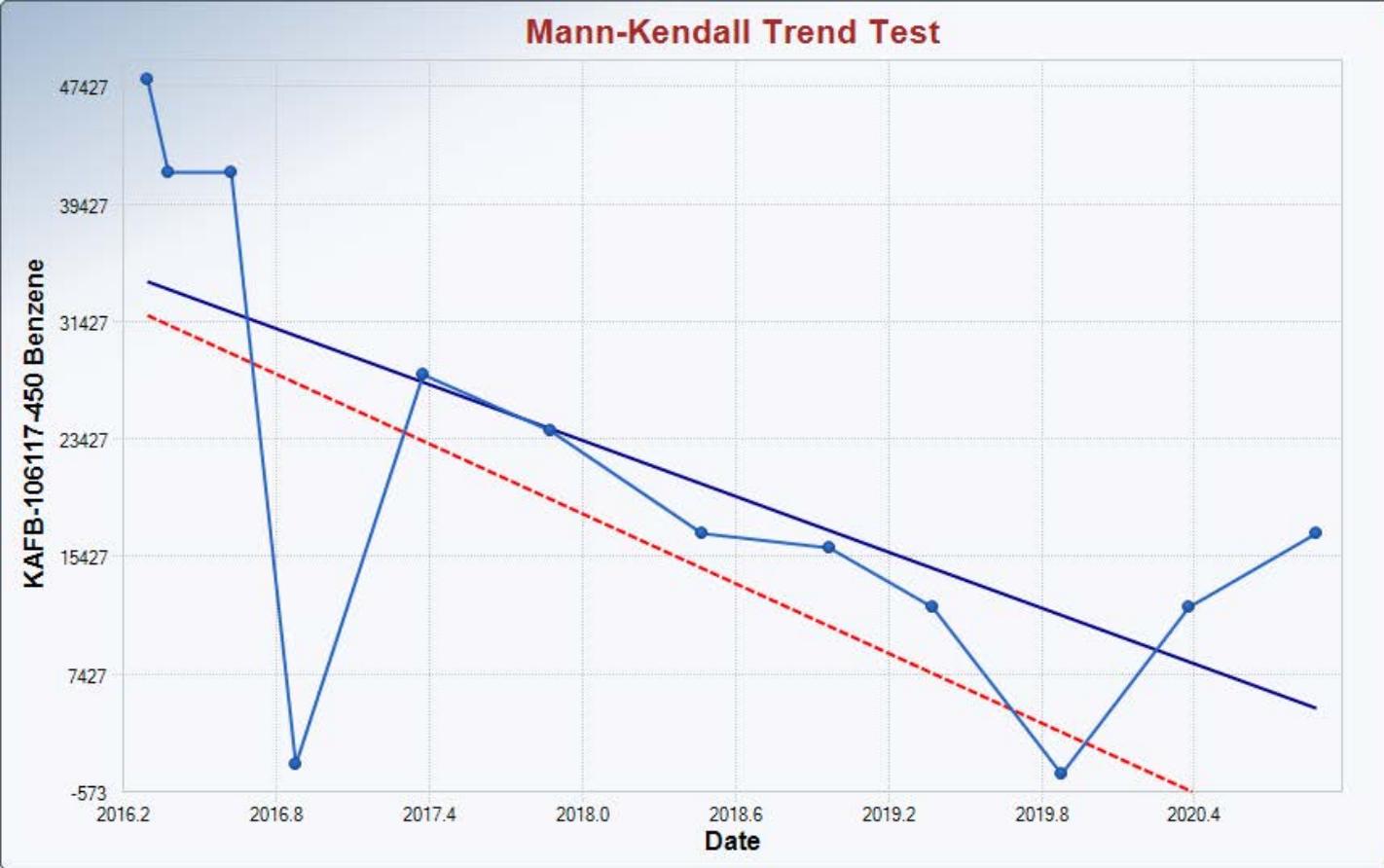


Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.4568
Standardized Value of S	1.9368
M-K Test Value (S)	29
Tabulated p-value	0.0310
Approximate p-value	0.0264
OLS Regression Line (Blue)	
OLS Regression Slope	2,949.4323
OLS Regression Intercept	-5,892,964.4255
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	3,141.3088
Theil-Sen Intercept	-6,276,965.6200
Statistically significant evidence of an increasing trend at the specified level of significance.	

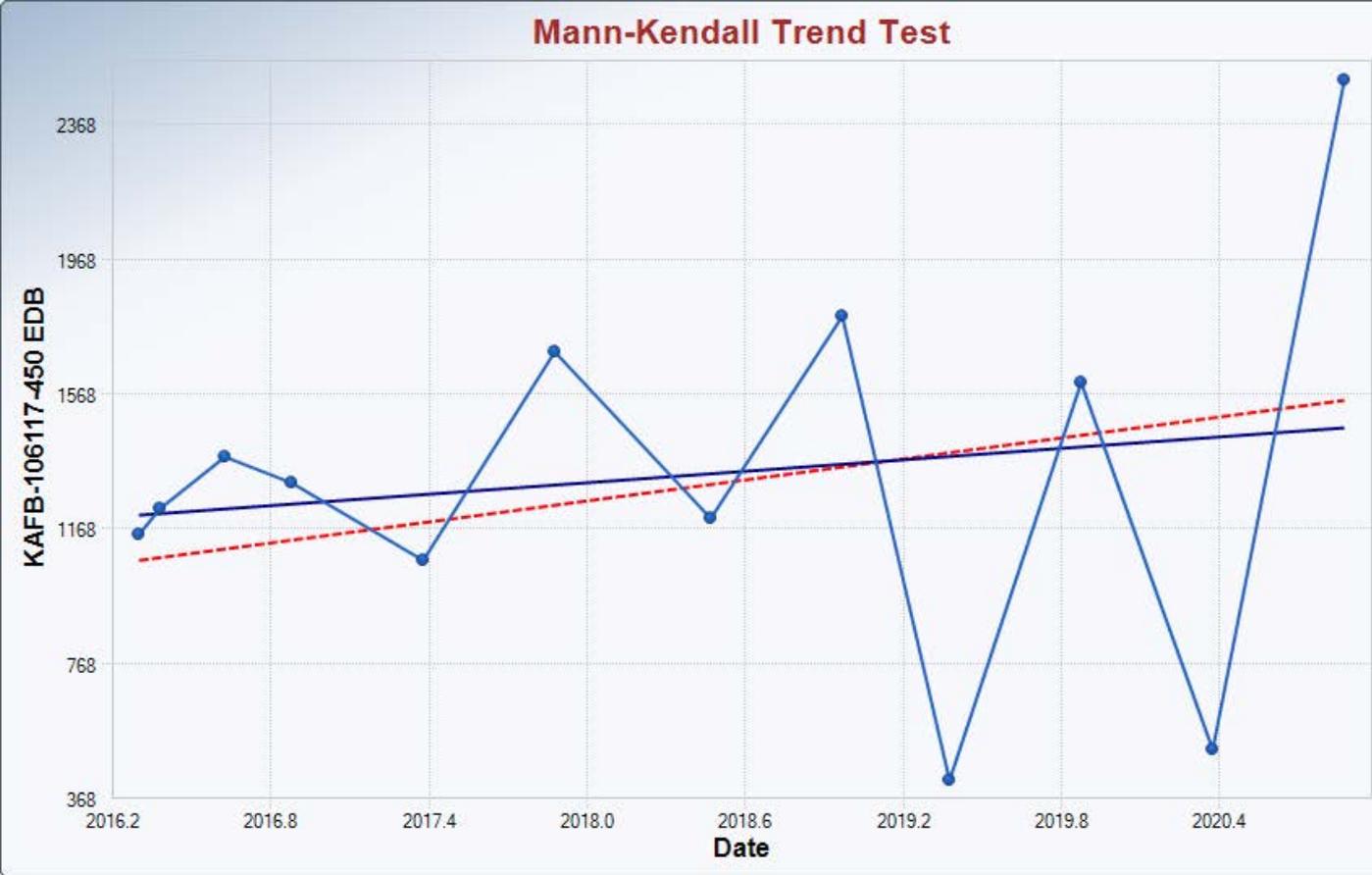


Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.7279
Standardized Value of S	2.2785
M-K Test Value (S)	30
Tabulated p-value	0.0080
Approximate p-value	0.0113
OLS Regression Line (Blue)	
OLS Regression Slope	75.3830
OLS Regression Intercept	-151,249.5846
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	76.8425
Theil-Sen Intercept	-154,209.9061
Statistically significant evidence of an increasing trend at the specified level of significance.	

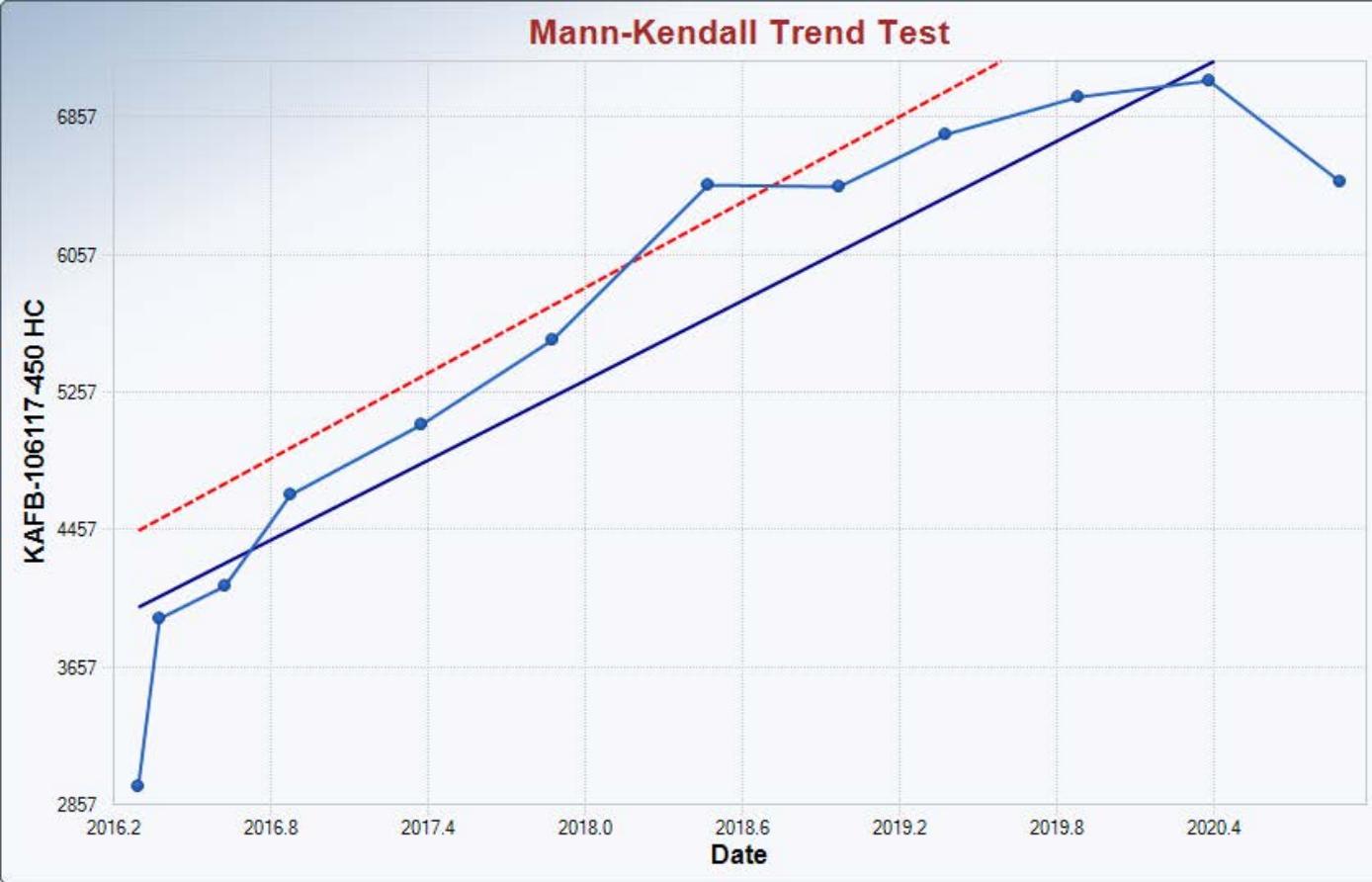




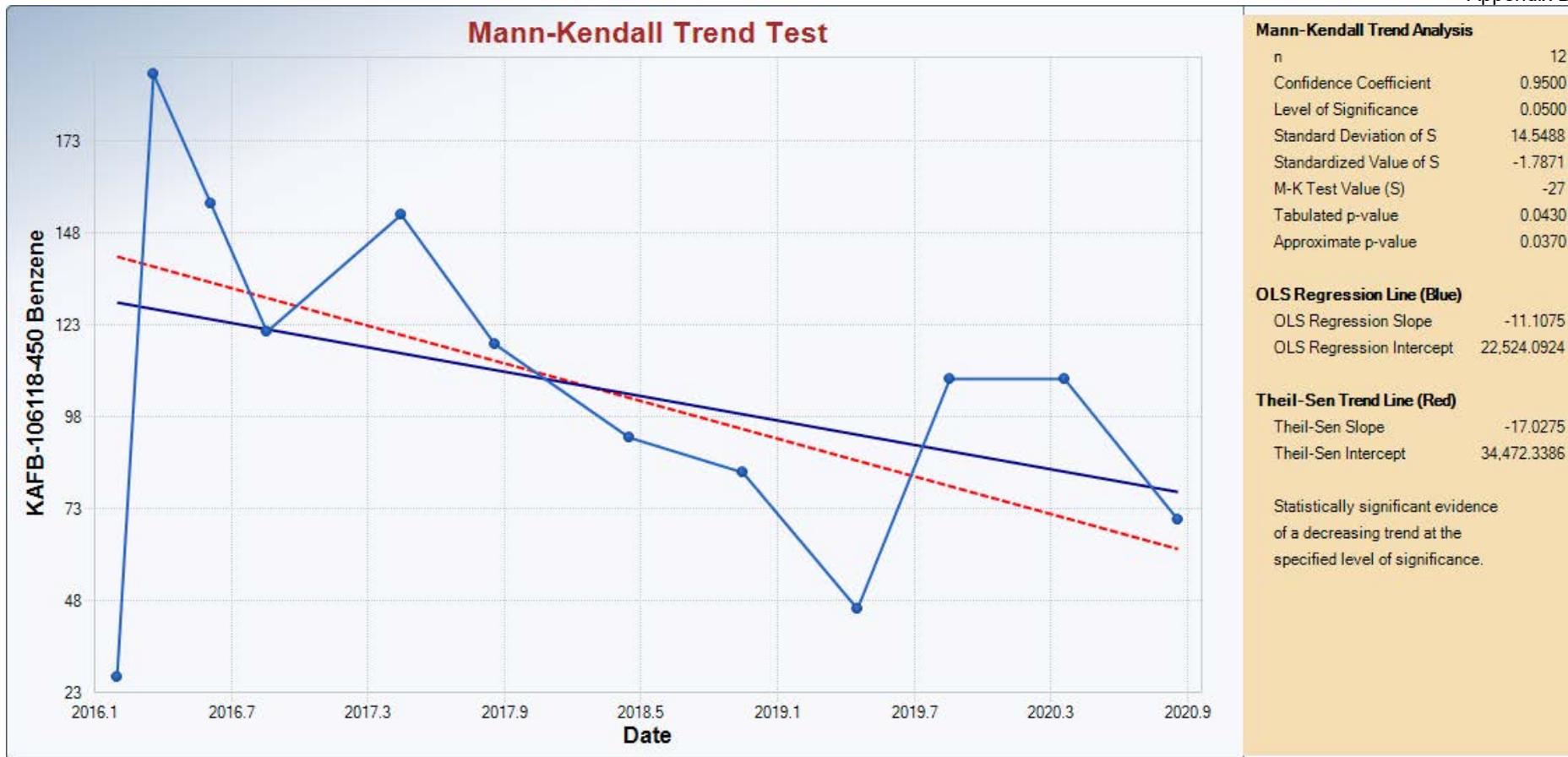
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.4799
Standardized Value of S	-2.6243
M-K Test Value (S)	-39
Tabulated p-value	0.0040
Approximate p-value	0.0043
OLS Regression Line (Blue)	
OLS Regression Slope	-6,353.6384
OLS Regression Intercept	12,844,682.0167
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-7,935.1431
Theil-Sen Intercept	16,031,110.7679
Statistically significant evidence of a decreasing trend at the specified level of significance.	

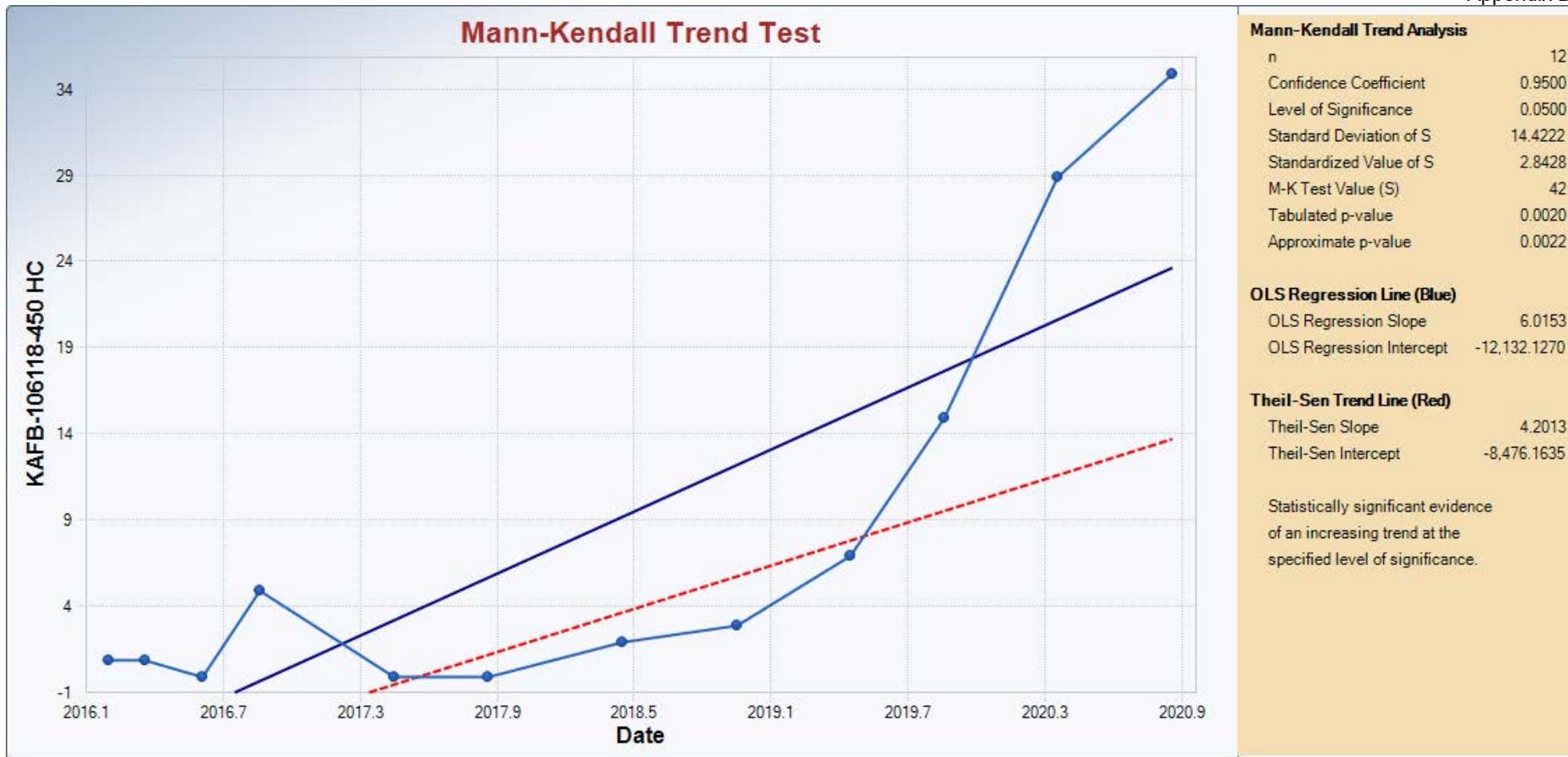


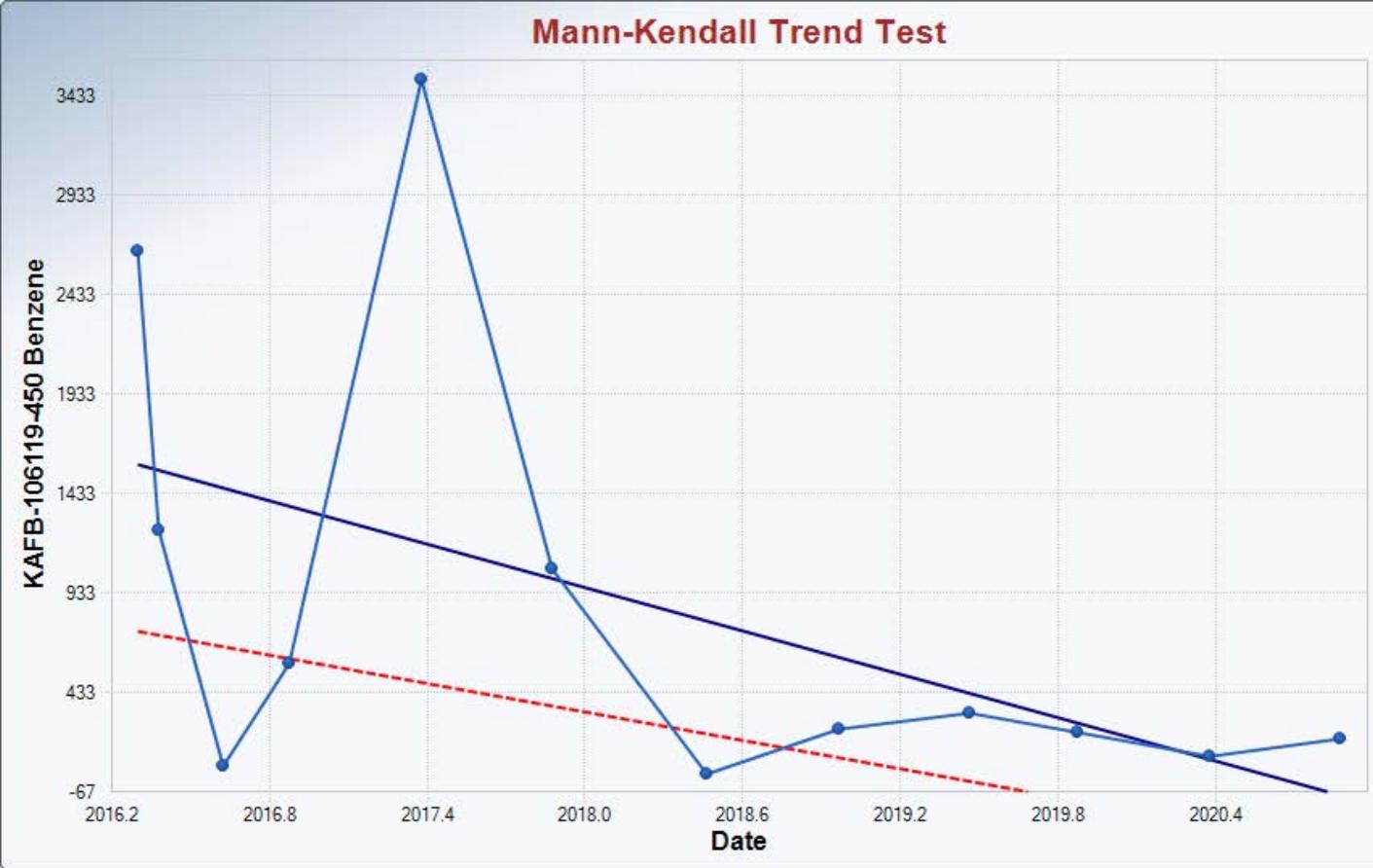
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	0.6172
M-K Test Value (S)	10
Tabulated p-value	0.2730
Approximate p-value	0.2686
OLS Regression Line (Blue)	
OLS Regression Slope	56.6840
OLS Regression Intercept	-113,079.3320
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	103.1443
Theil-Sen Intercept	-206,890.1653
Insufficient statistical evidence of a significant trend at the specified level of significance.	



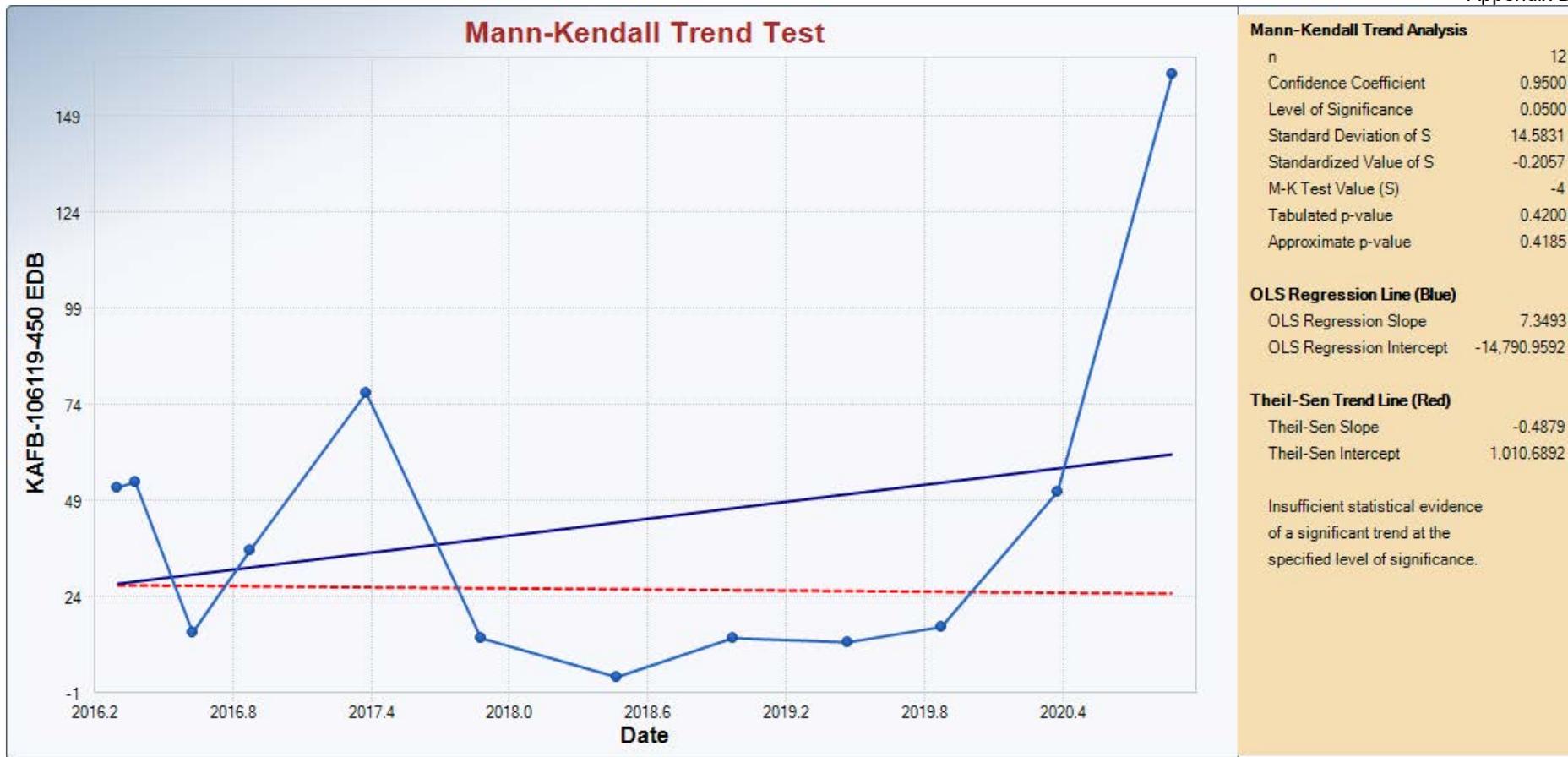
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	3.9086
M-K Test Value (S)	58
Tabulated p-value	0.0000
Approximate p-value	0.0000
OLS Regression Line (Blue)	
OLS Regression Slope	775.6787
OLS Regression Intercept	-1,559,958.7181
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	830.0000
Theil-Sen Intercept	-1,669,038.7500
Statistically significant evidence of an increasing trend at the specified level of significance.	

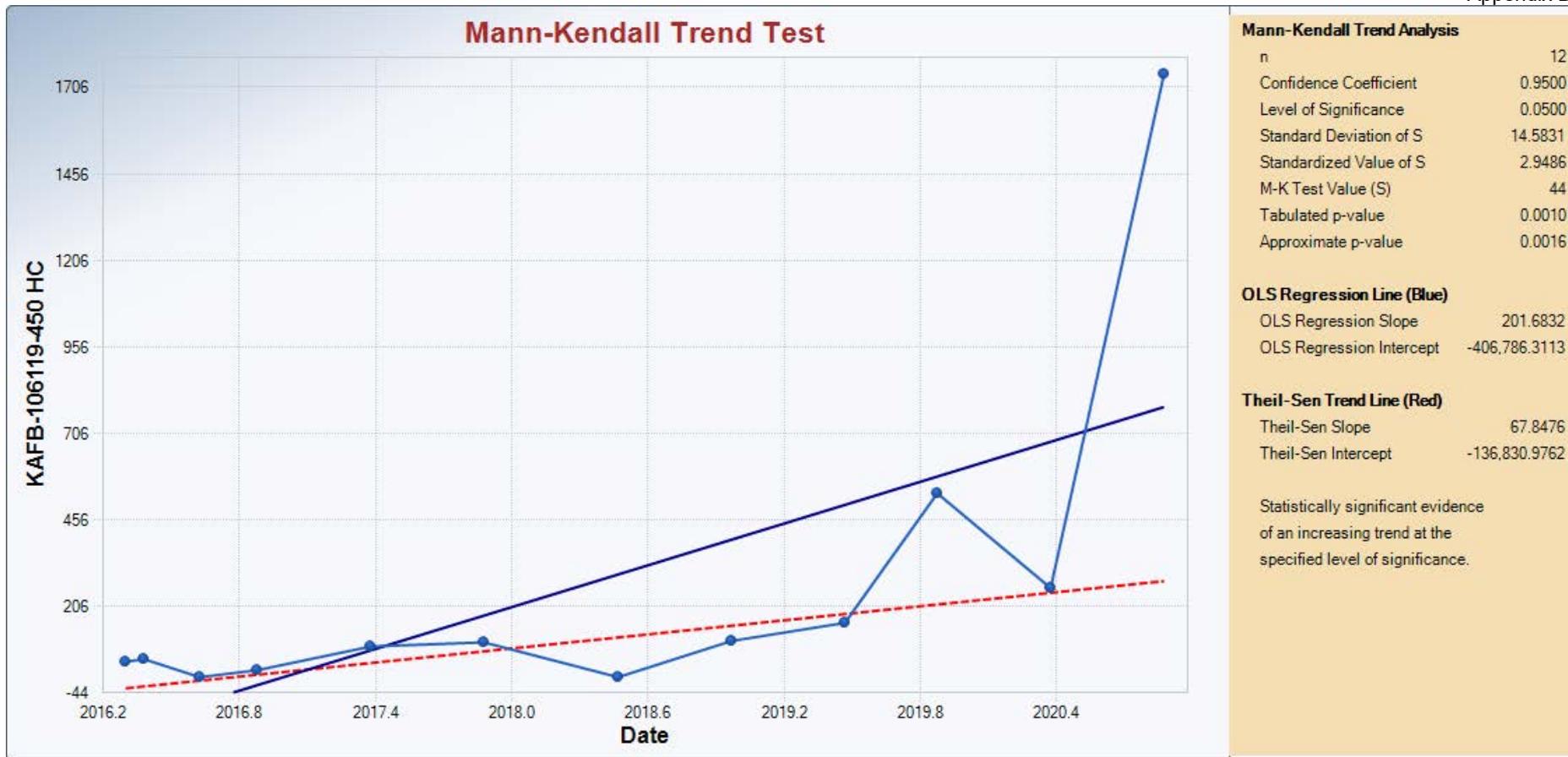


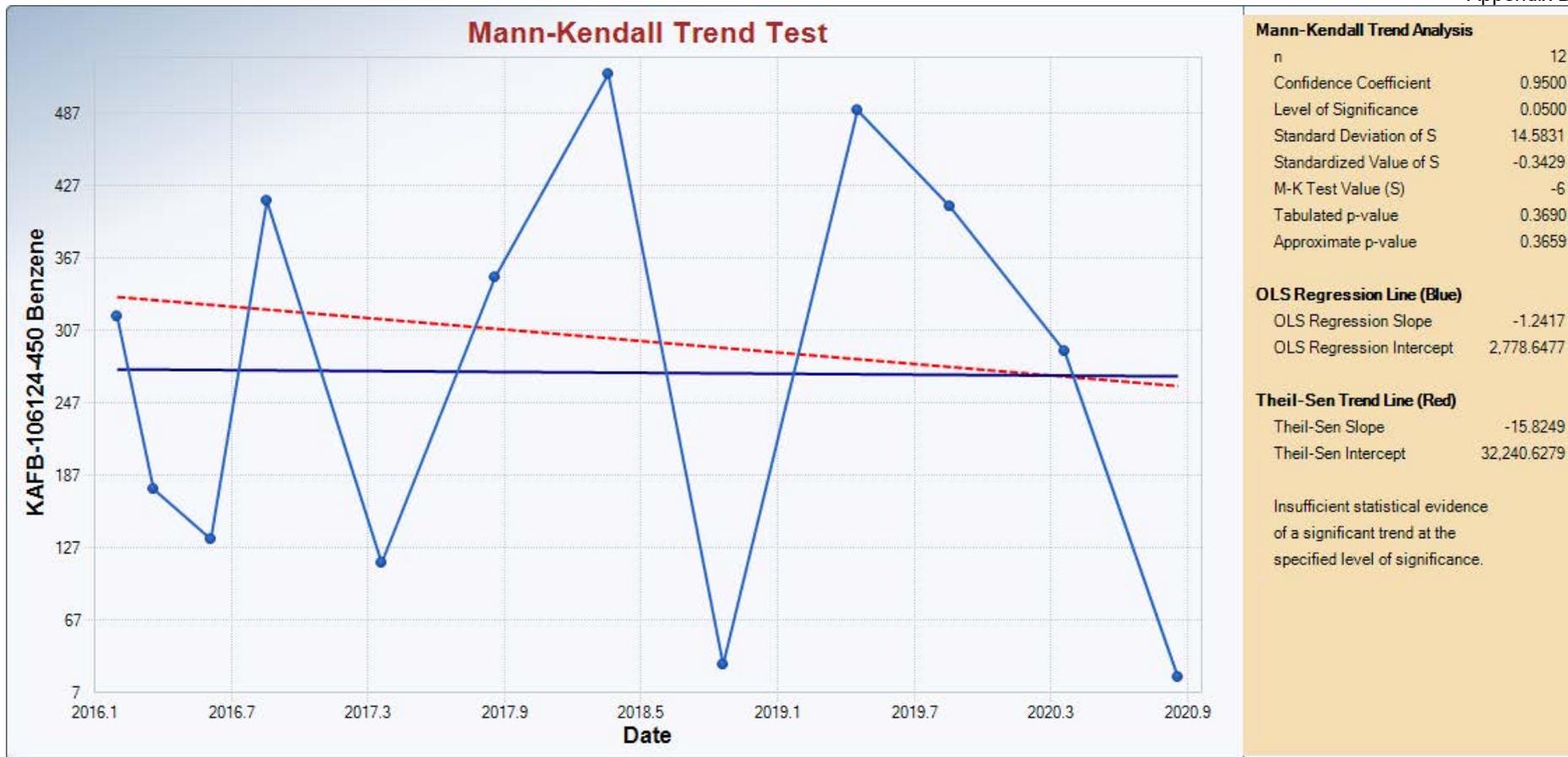


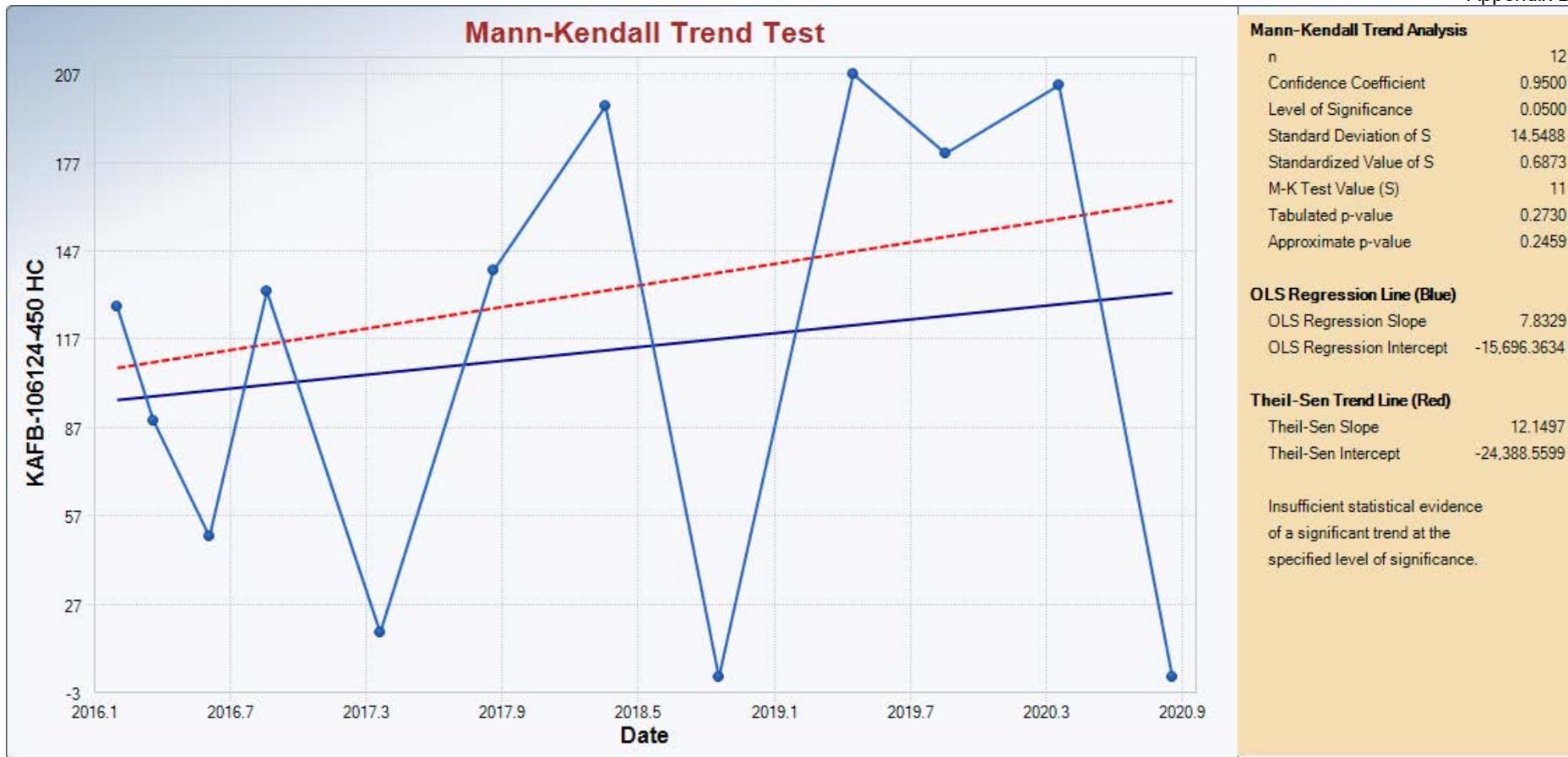


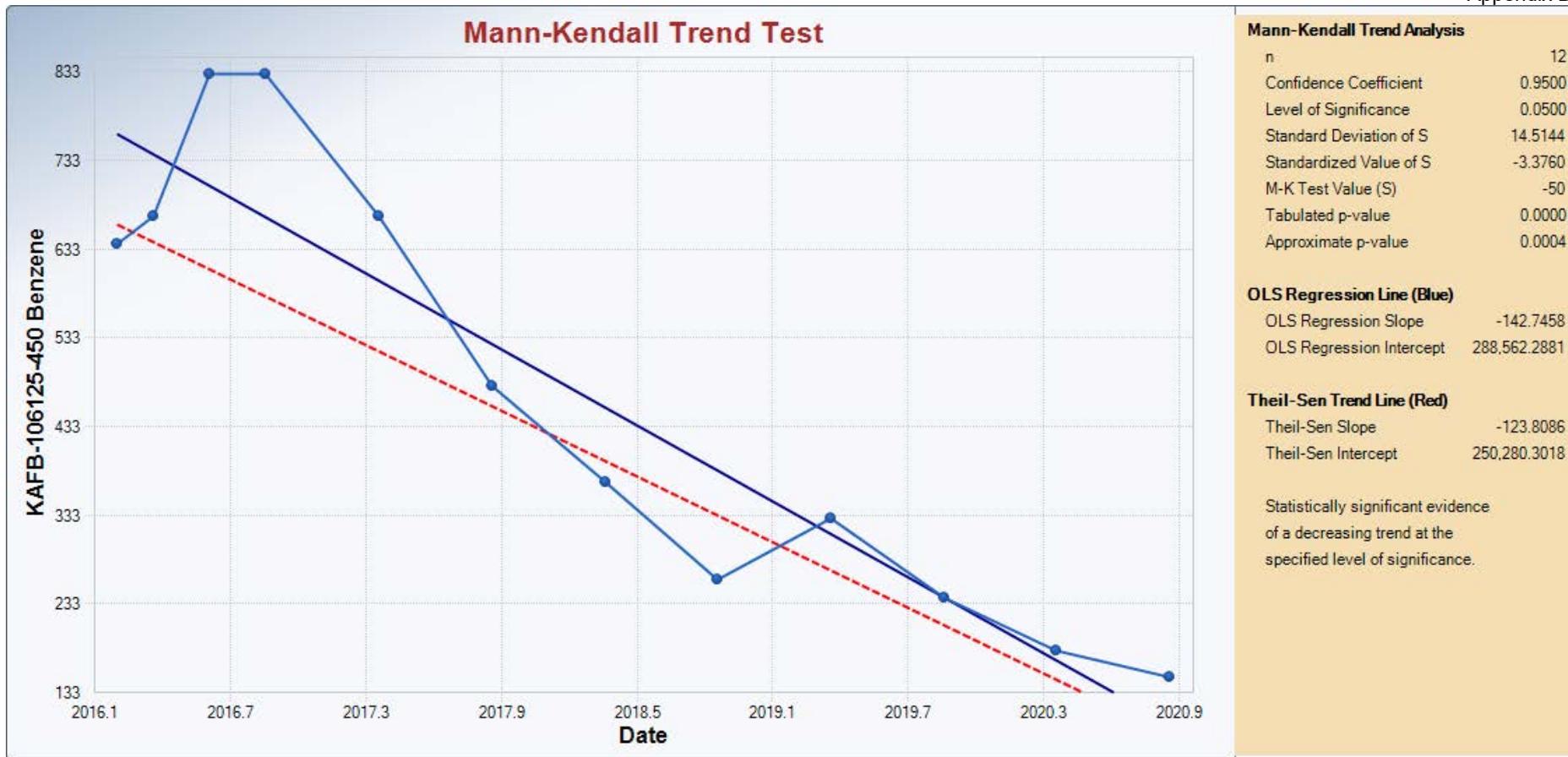
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-1.8515
M-K Test Value (S)	-28
Tabulated p-value	0.0310
Approximate p-value	0.0321
OLS Regression Line (Blue)	
OLS Regression Slope	-365.4194
OLS Regression Intercept	738.358.0454
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-240.8791
Theil-Sen Intercept	486.414.1758
Statistically significant evidence of a decreasing trend at the specified level of significance.	

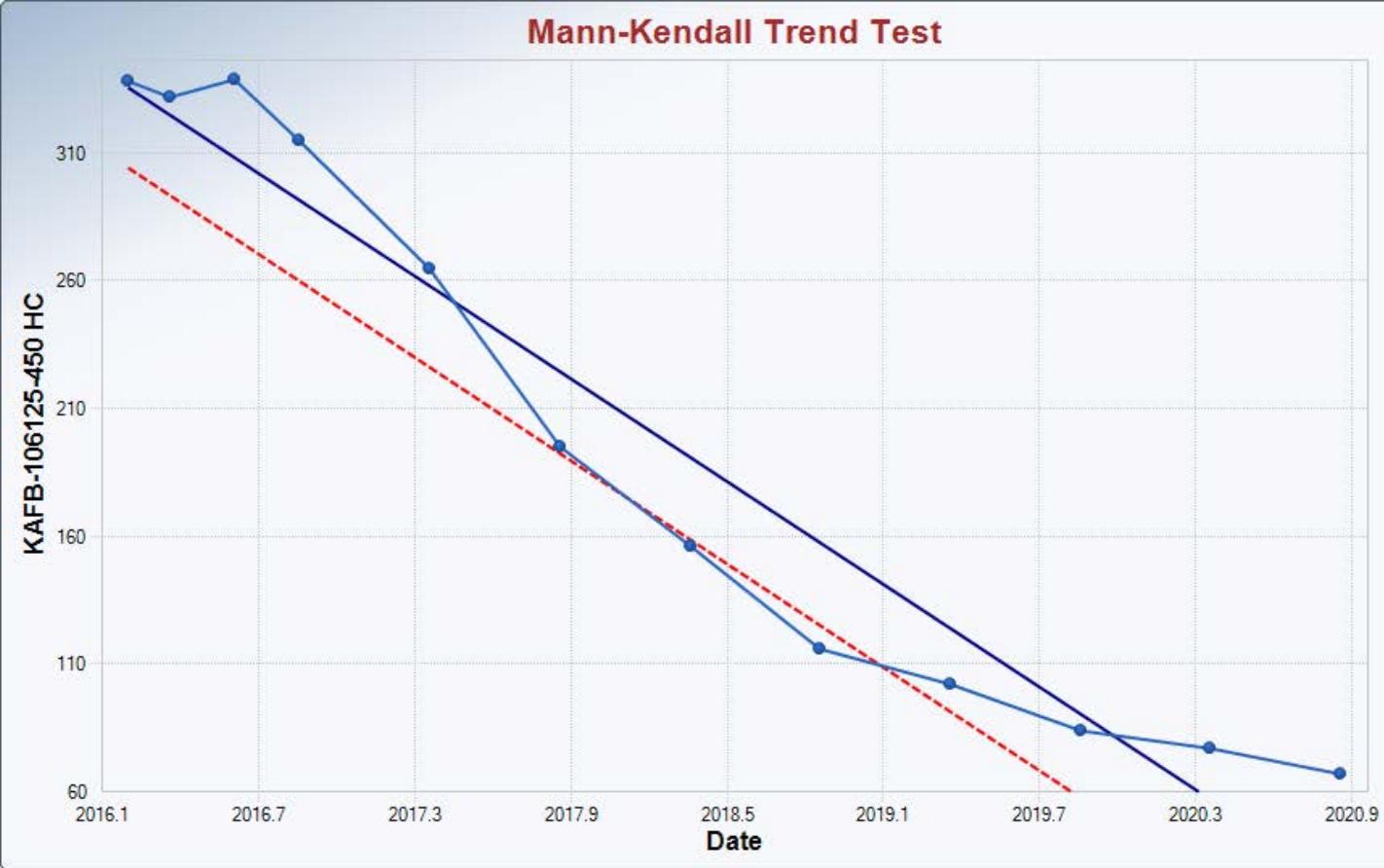




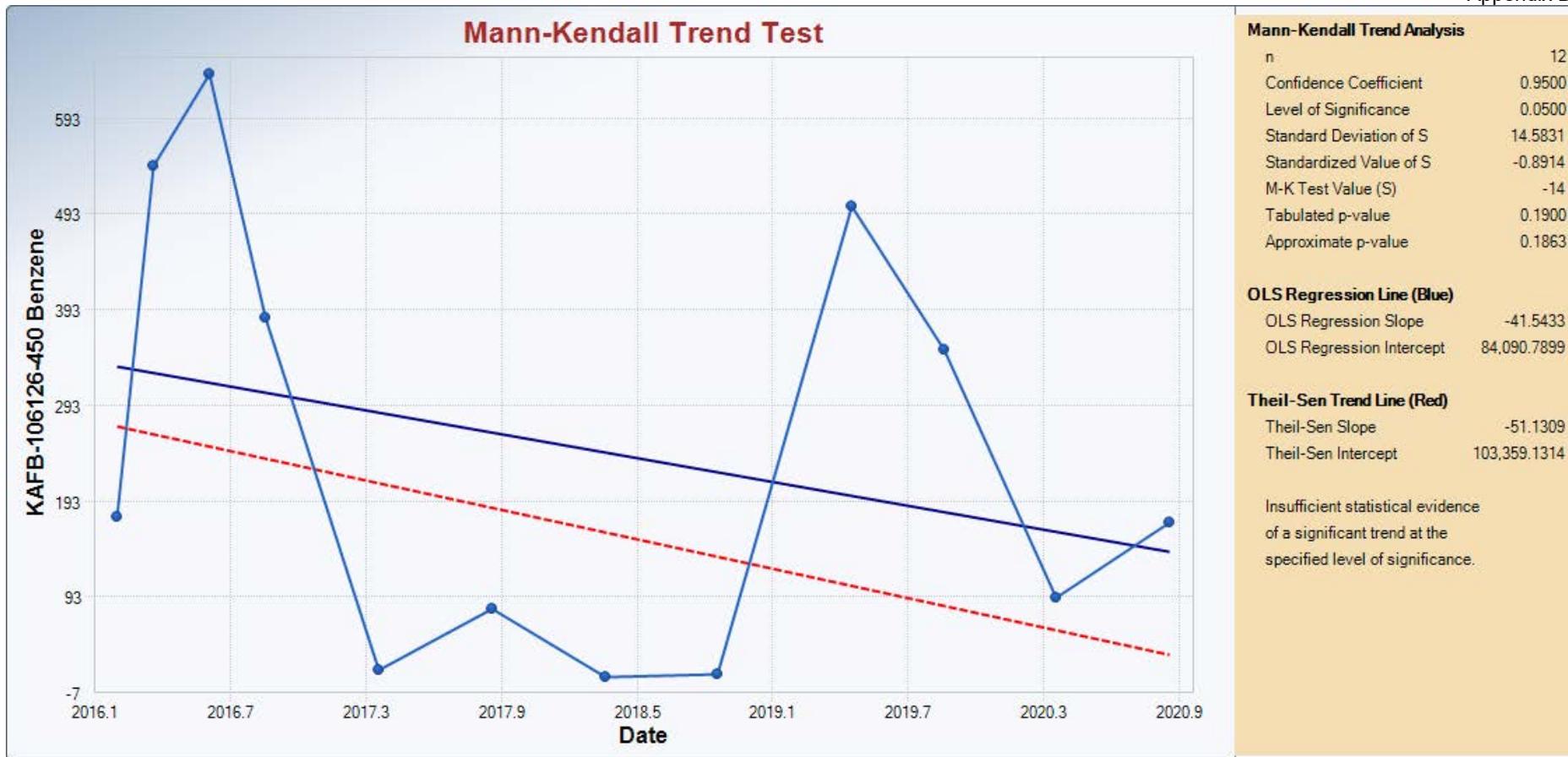


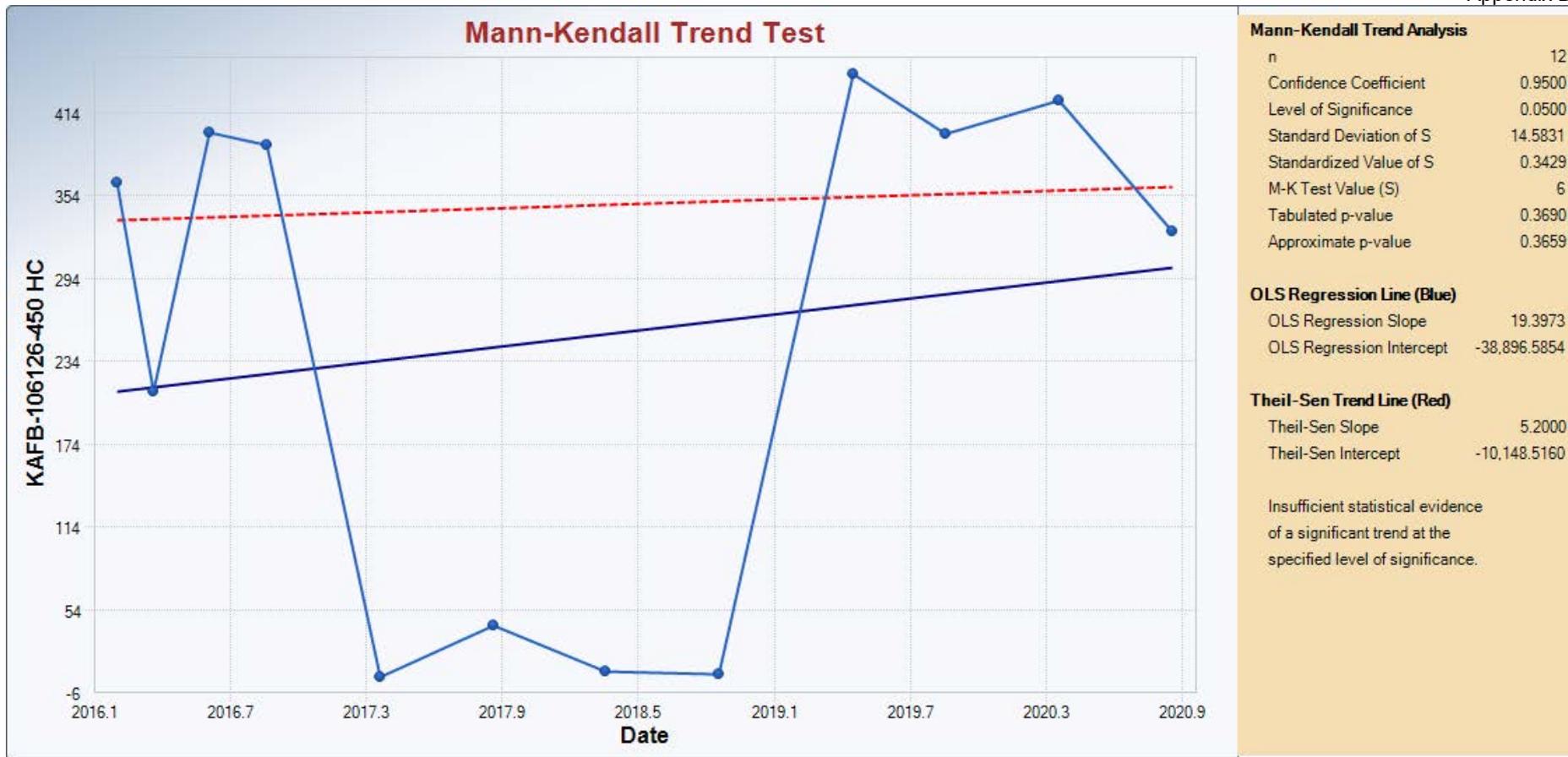


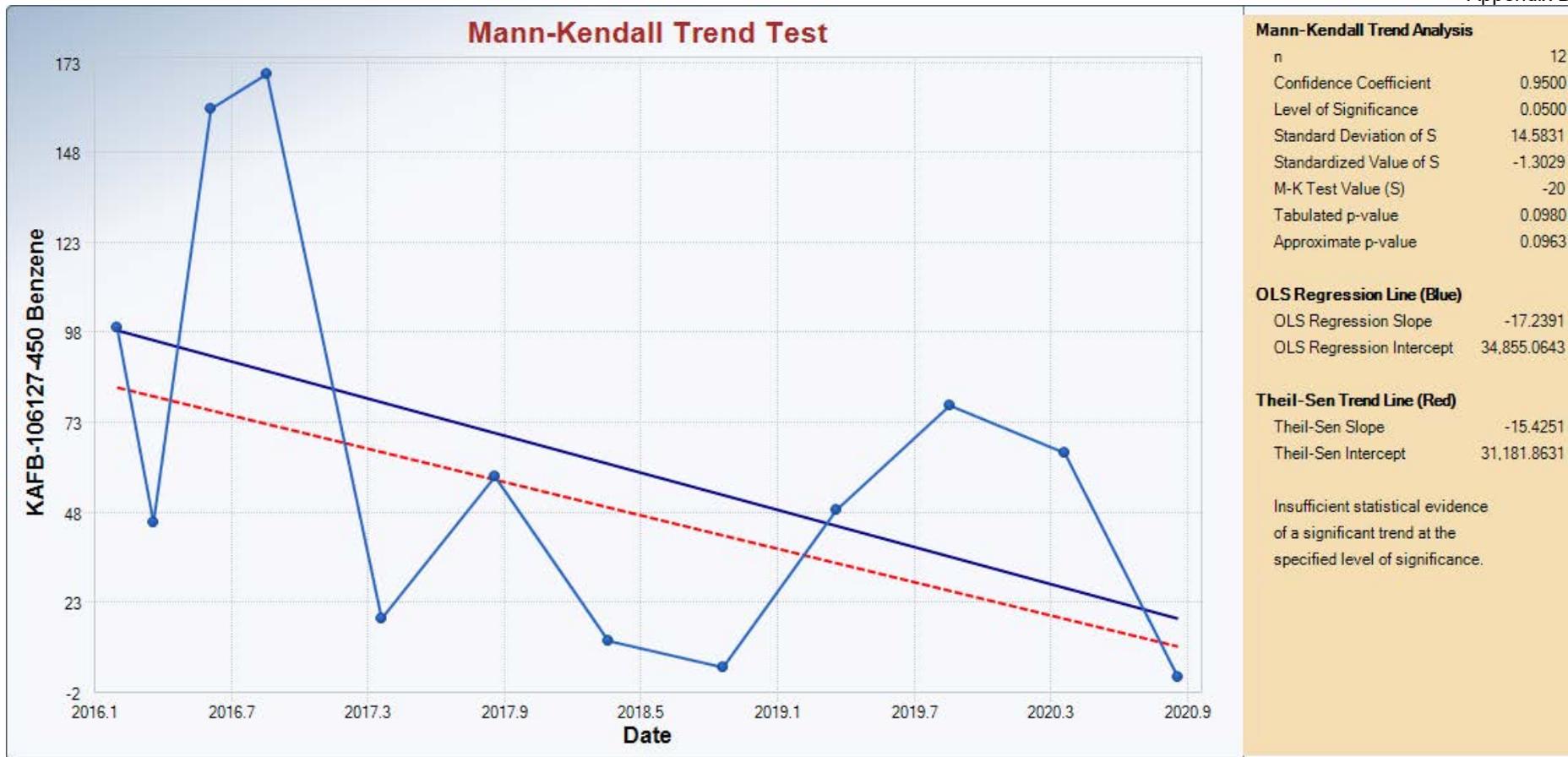


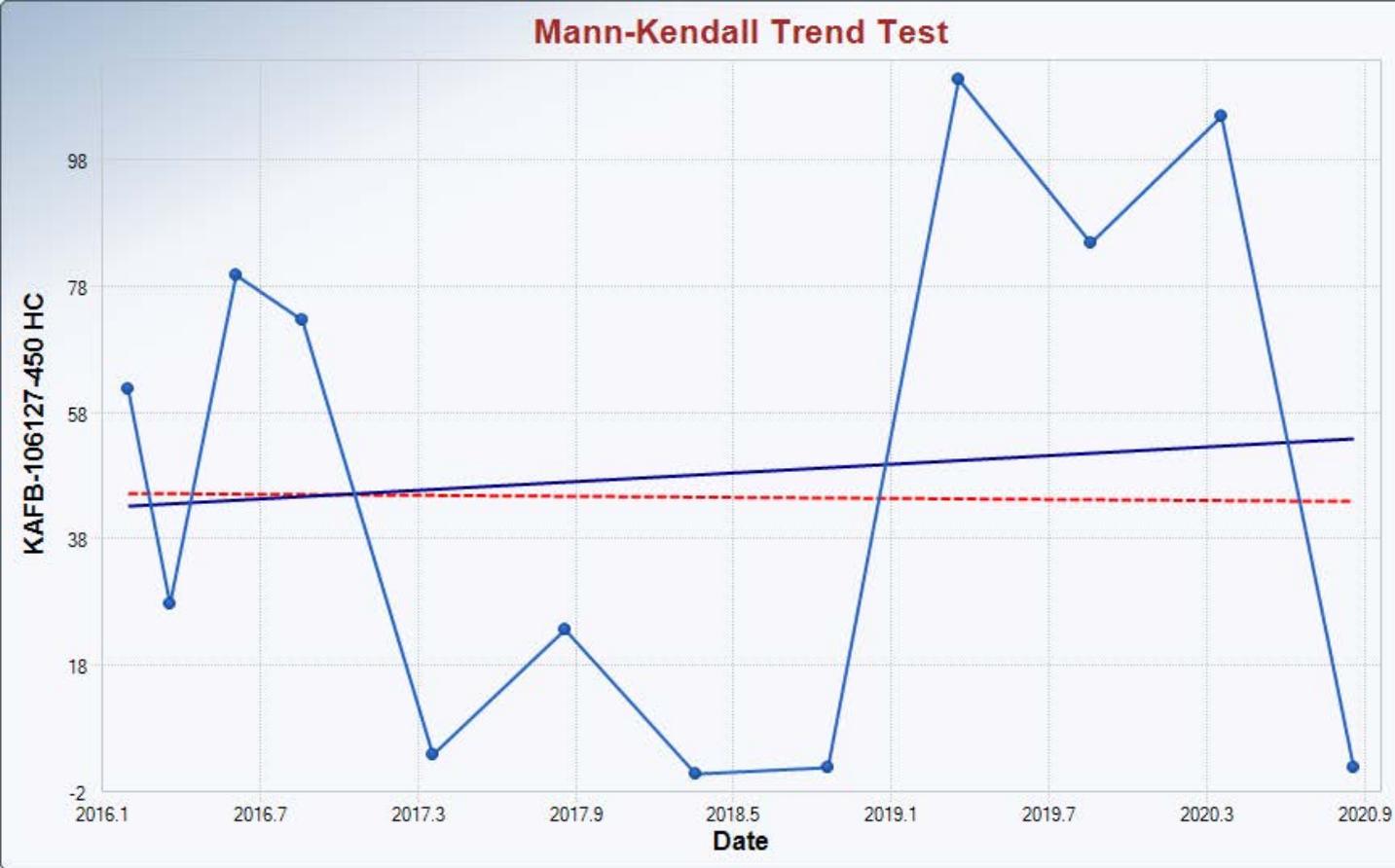


Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-4.1829
M-K Test Value (S)	-62
Tabulated p-value	0.0000
Approximate p-value	0.0000
OLS Regression Line (Blue)	
OLS Regression Slope	-67.1403
OLS Regression Intercept	135,702.2361
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-67.5000
Theil-Sen Intercept	136,395.9000
Statistically significant evidence of a decreasing trend at the specified level of significance.	









Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5488
Standardized Value of S	0.0000
M-K Test Value (S)	-1
Tabulated p-value	0.5270
Approximate p-value	0.5000

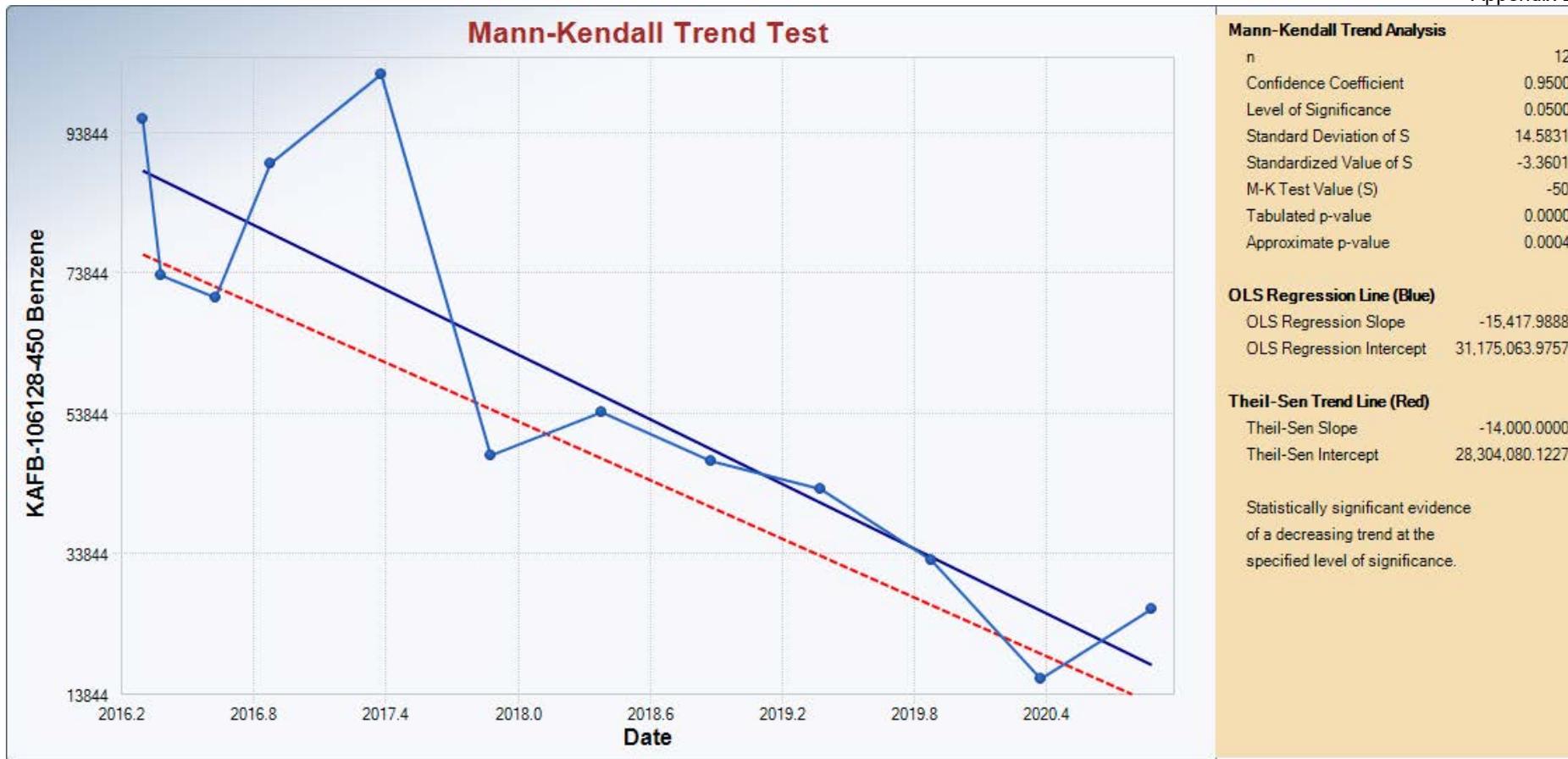
  

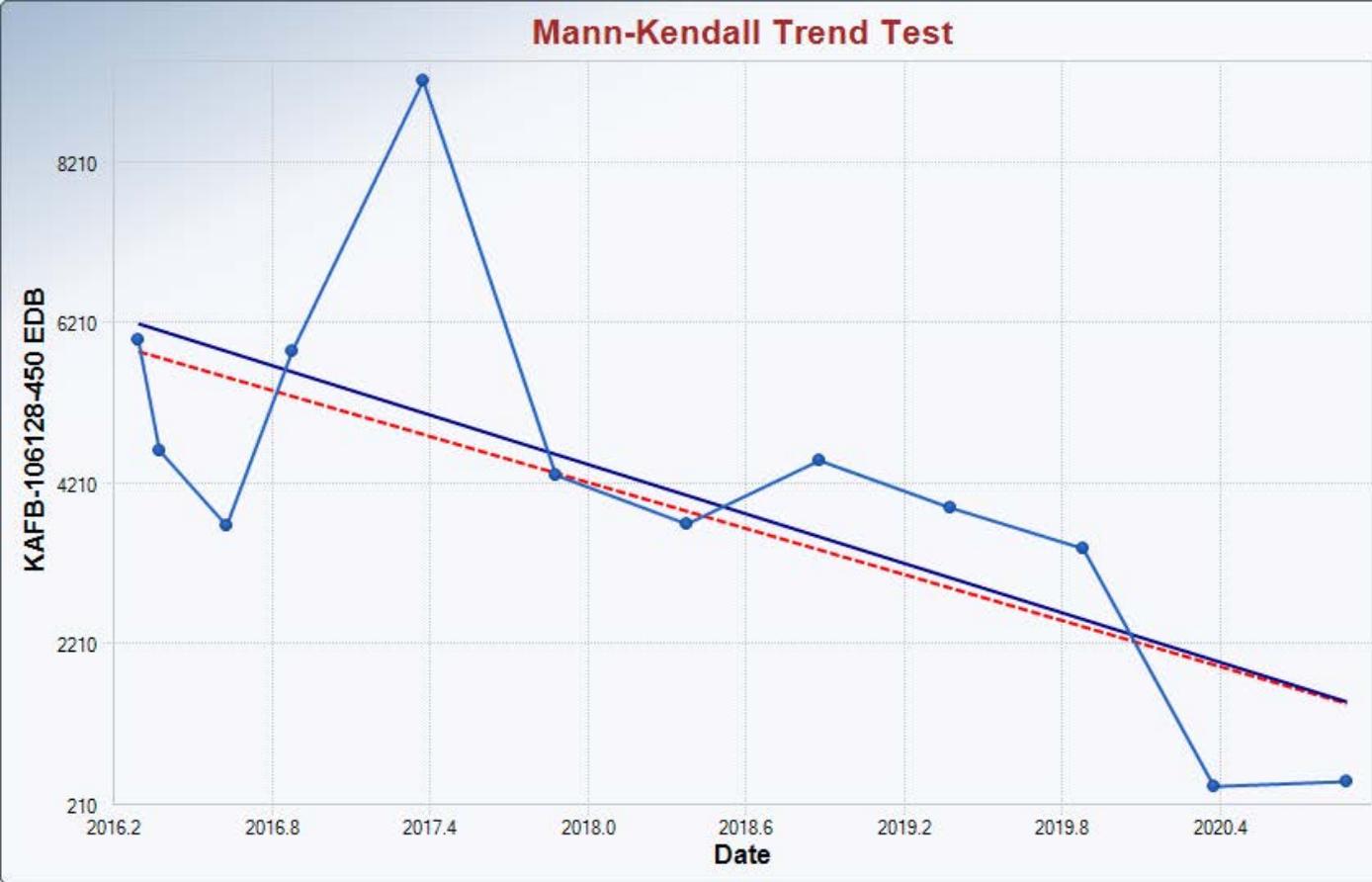
OLS Regression Line (Blue)	
OLS Regression Slope	2.3211
OLS Regression Intercept	-4,636.4584

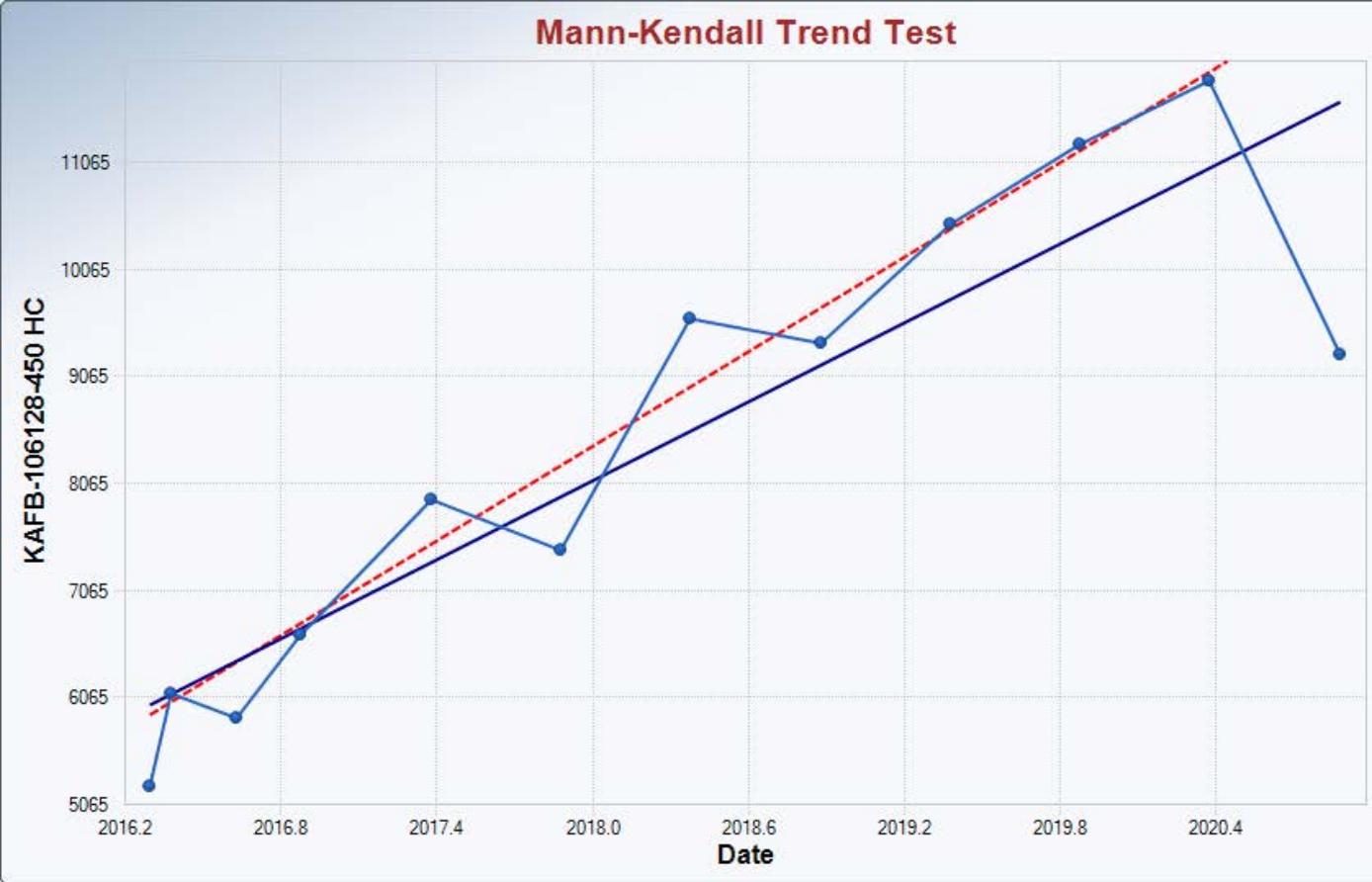
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.2857
Theil-Sen Intercept	621.5943

Insufficient statistical evidence of a significant trend at the specified level of significance.

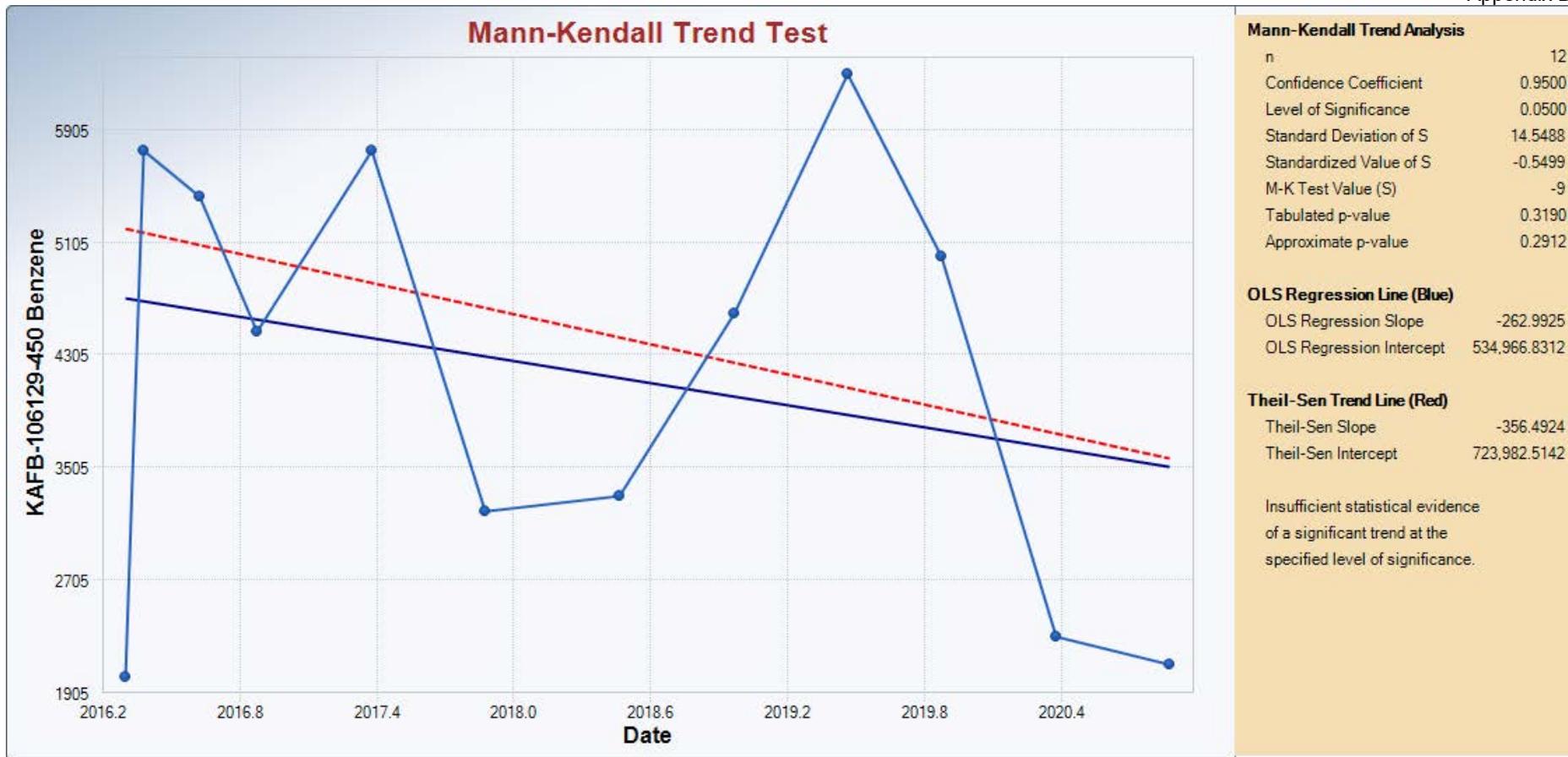


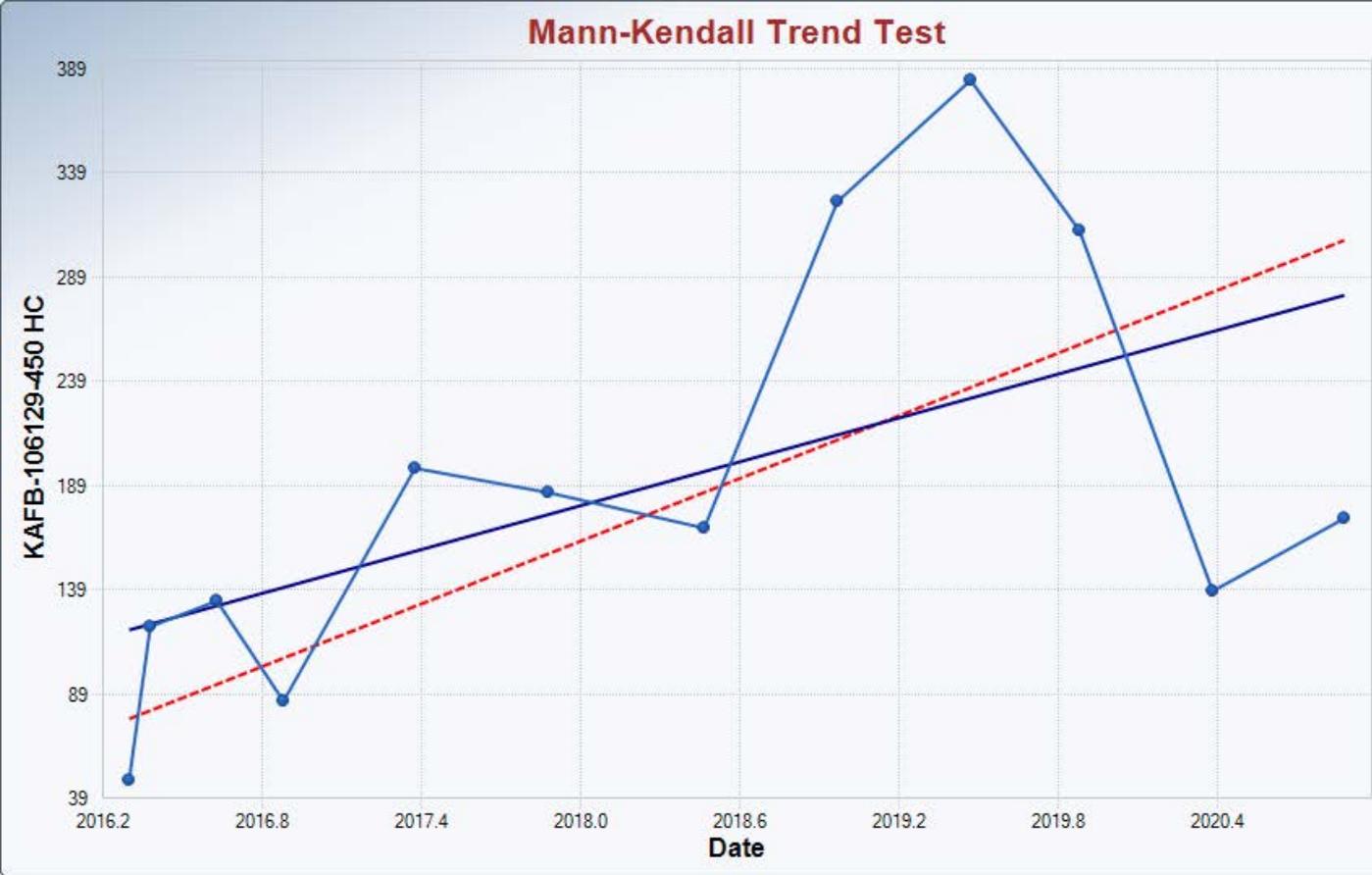


Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-2.5372
M-K Test Value (S)	-38
Tabulated p-value	0.0040
Approximate p-value	0.0056
OLS Regression Line (Blue)	
OLS Regression Slope	-1,031.5483
OLS Regression Intercept	2,086,063.6848
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-957.8391
Theil-Sen Intercept	1,937,097.5773
Statistically significant evidence of a decreasing trend at the specified level of significance.	

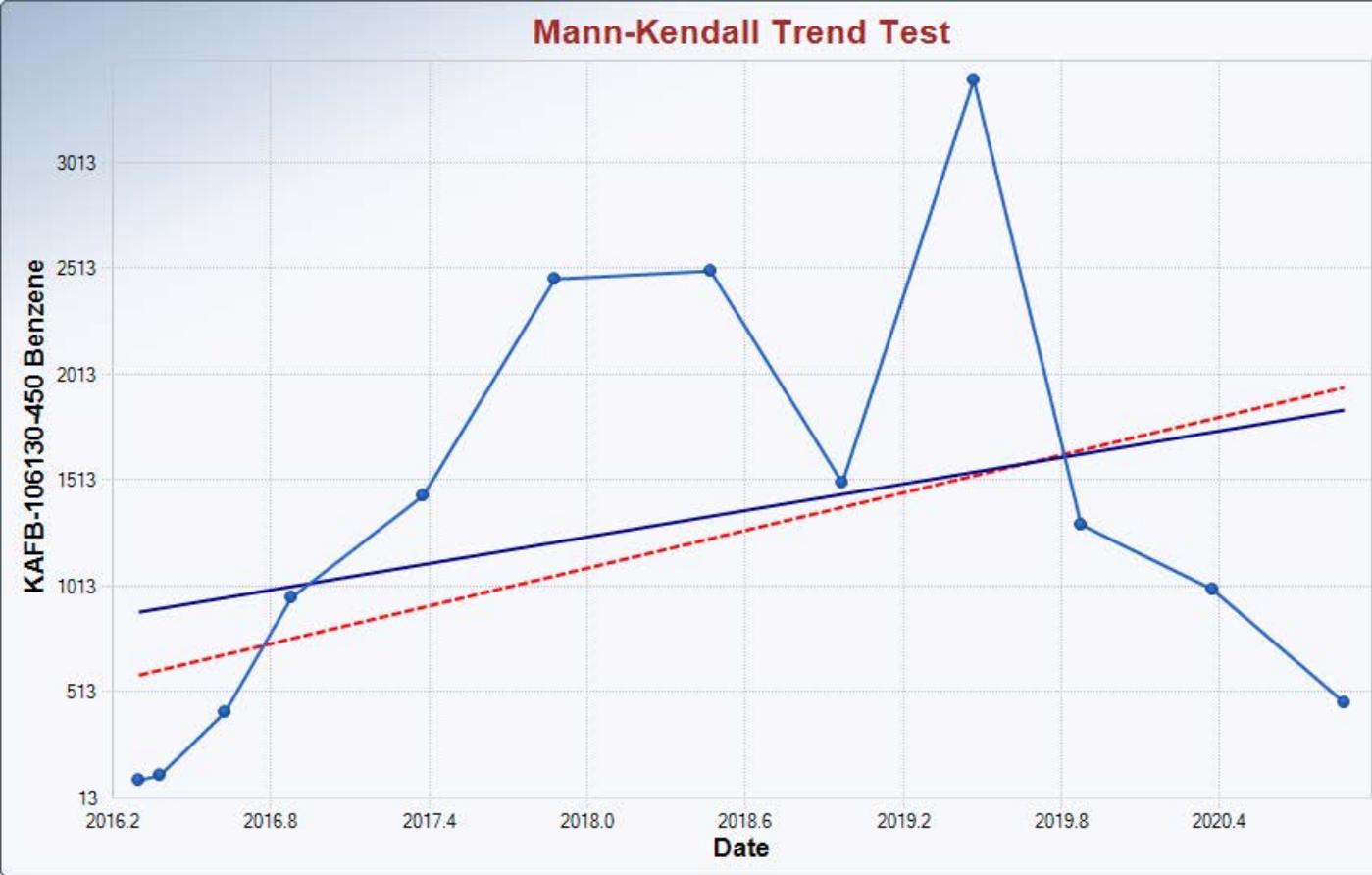


Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	3.3601
M-K Test Value (S)	50
Tabulated p-value	0.0000
Approximate p-value	0.0004
<b>OLS Regression Line (Blue)</b>	
OLS Regression Slope	1,232.1392
OLS Regression Intercept	-2,478,308.5892
<b>Theil-Sen Trend Line (Red)</b>	
Theil-Sen Slope	1,474.2857
Theil-Sen Intercept	-2,966,631.5143
Statistically significant evidence of an increasing trend at the specified level of significance.	





Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	1.9886
M-K Test Value (S)	30
Tabulated p-value	0.0220
Approximate p-value	0.0234
OLS Regression Line (Blue)	
OLS Regression Slope	35.0211
OLS Regression Intercept	-70,492.2089
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	50.1006
Theil-Sen Intercept	-100,938.8318
Statistically significant evidence of an increasing trend at the specified level of significance.	



**Mann-Kendall Trend Analysis**

n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	1.5772
M-K Test Value (S)	24
Tabulated p-value	0.0580
Approximate p-value	0.0574

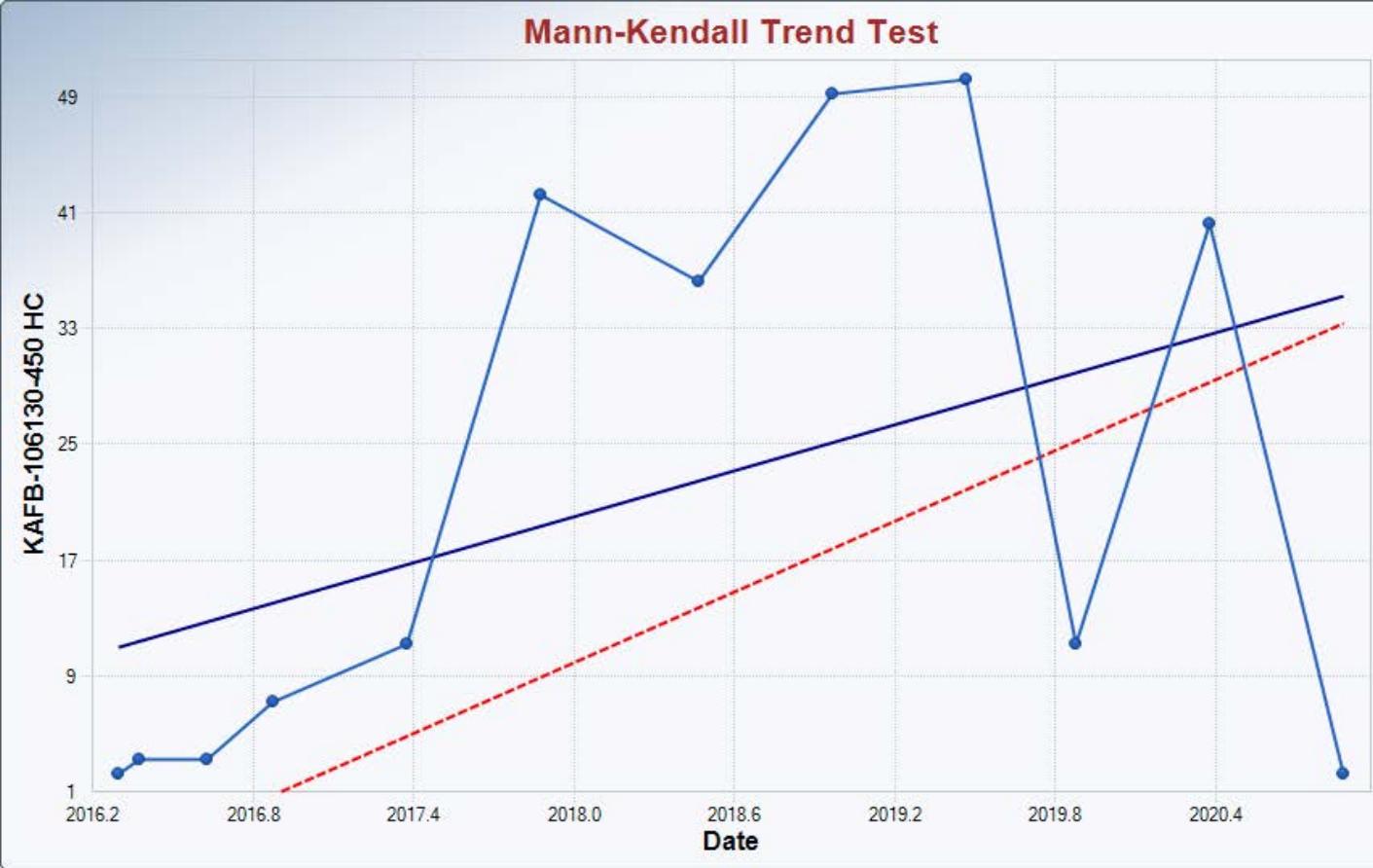
**OLS Regression Line (Blue)**

OLS Regression Slope	208.8859
OLS Regression Intercept	-420,278.1929

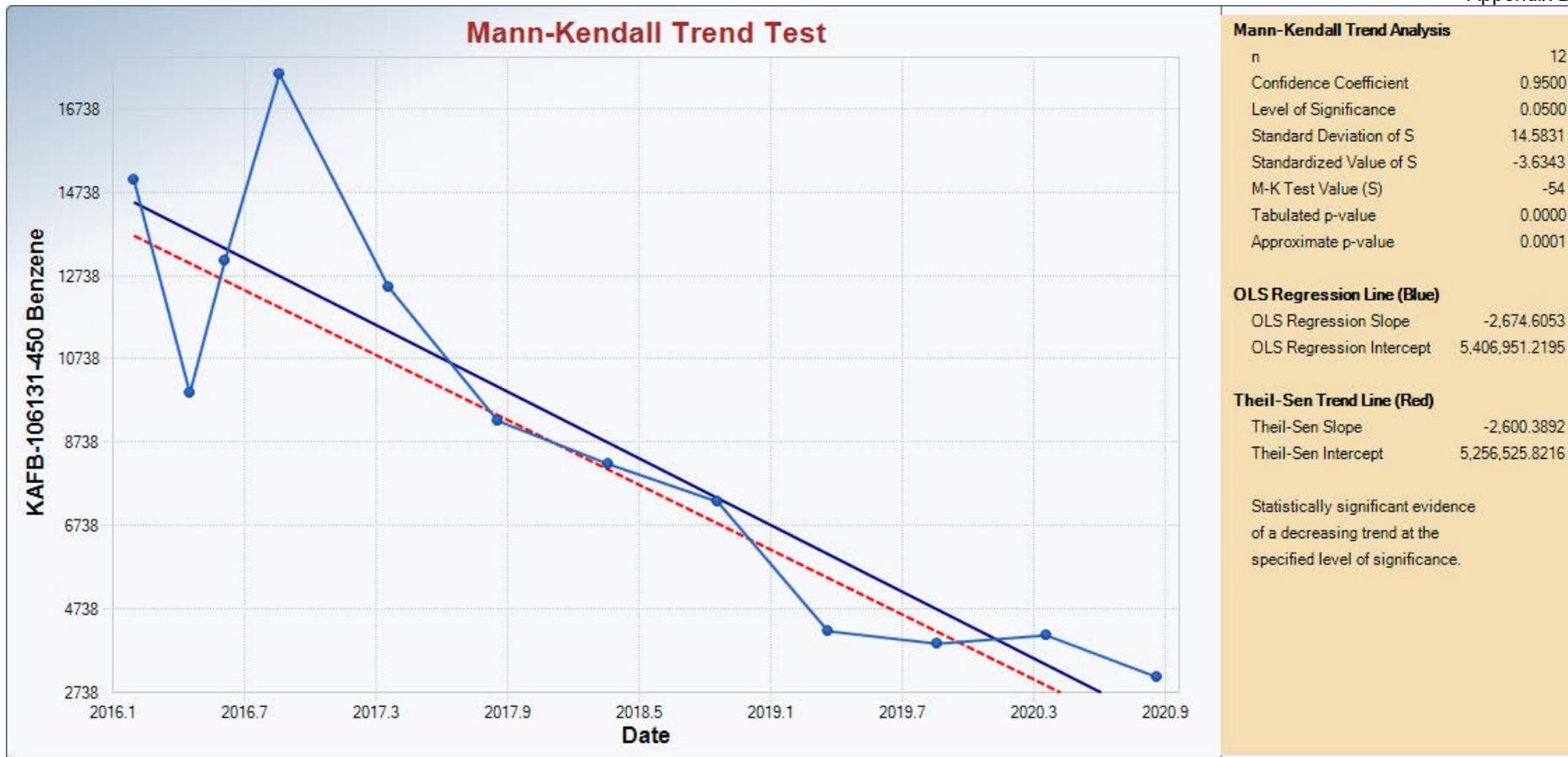
**Theil-Sen Trend Line (Red)**

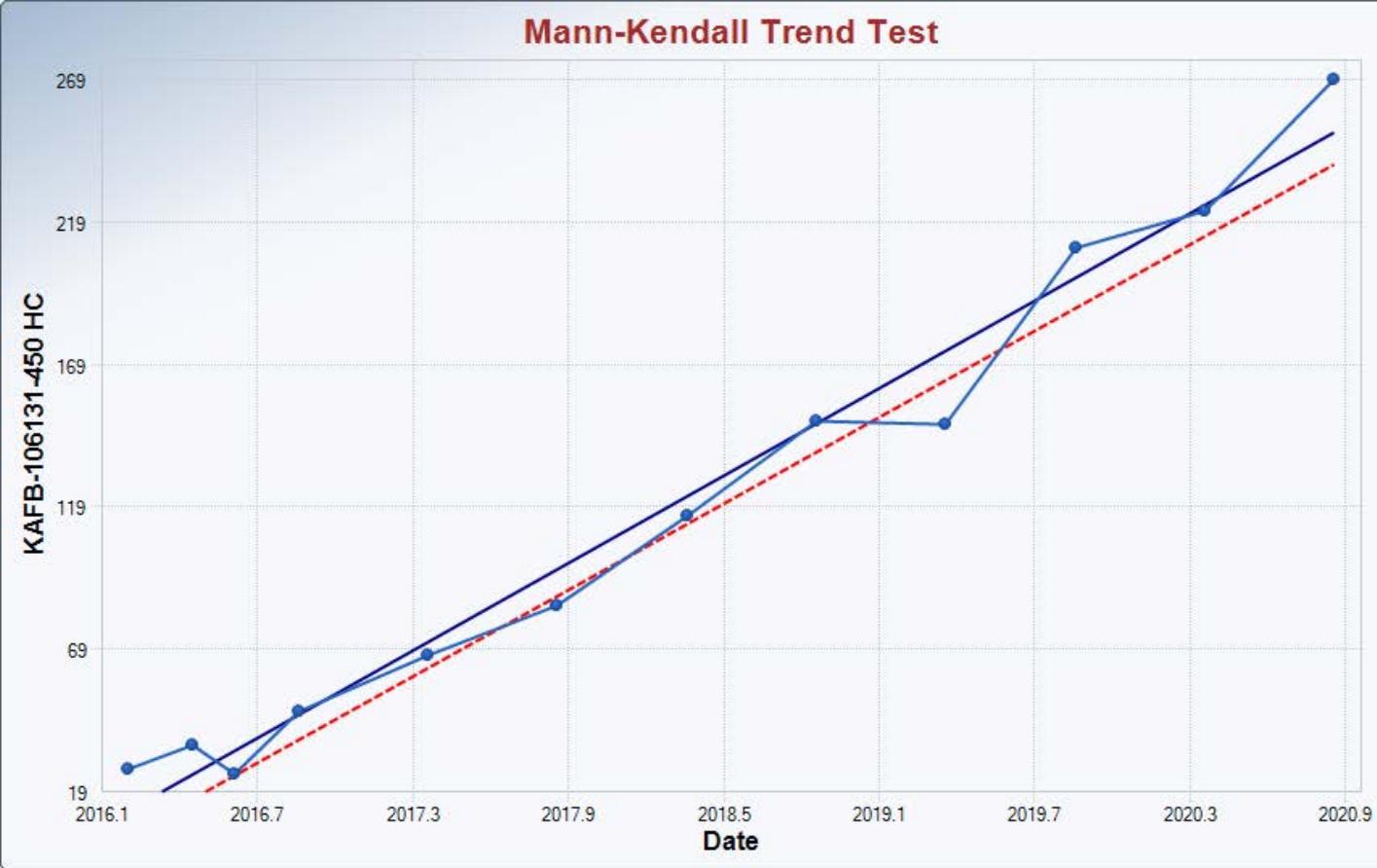
Theil-Sen Slope	295.8405
Theil-Sen Intercept	-595,893.0903

Insufficient statistical evidence of a significant trend at the specified level of significance.

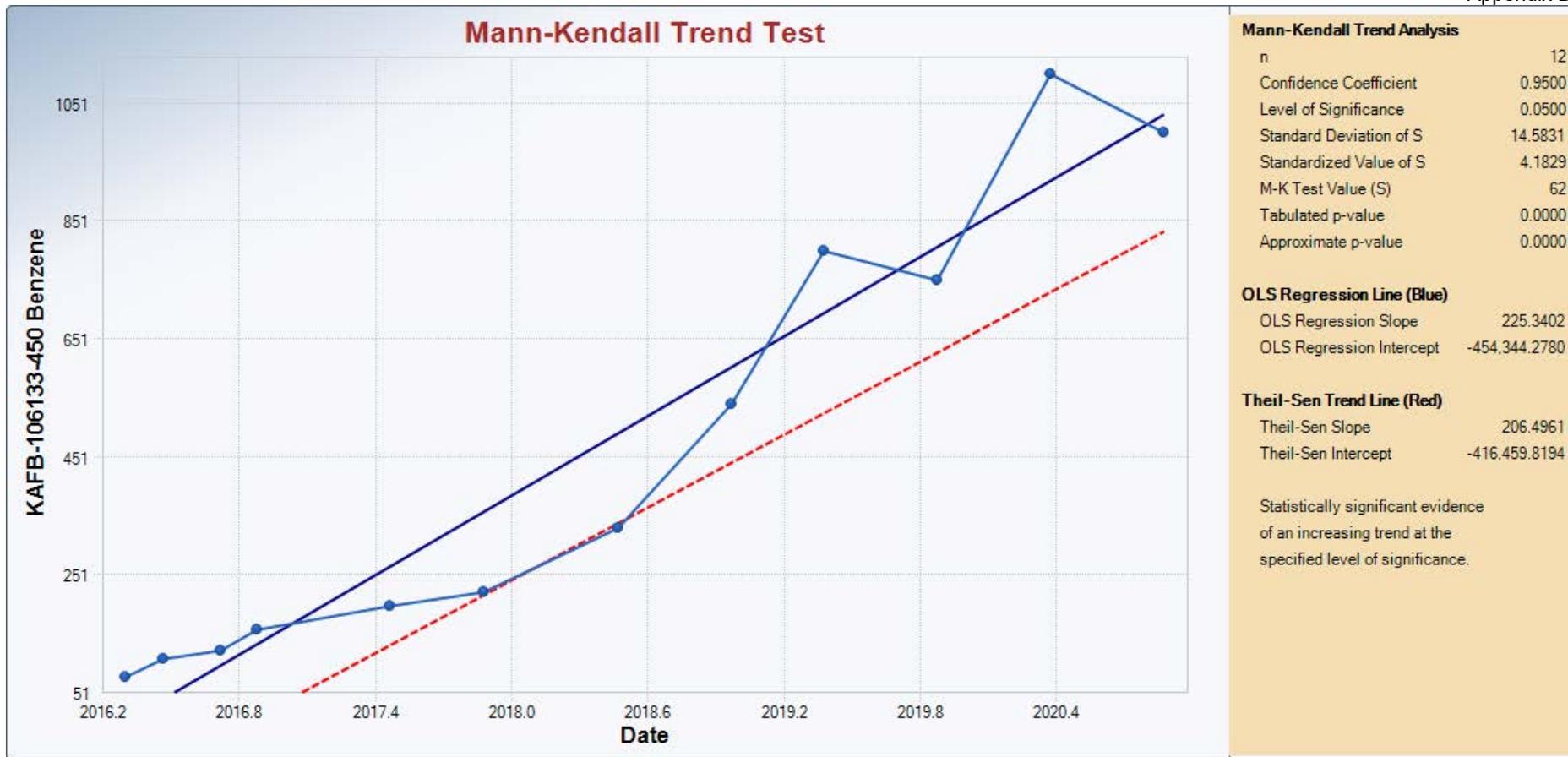


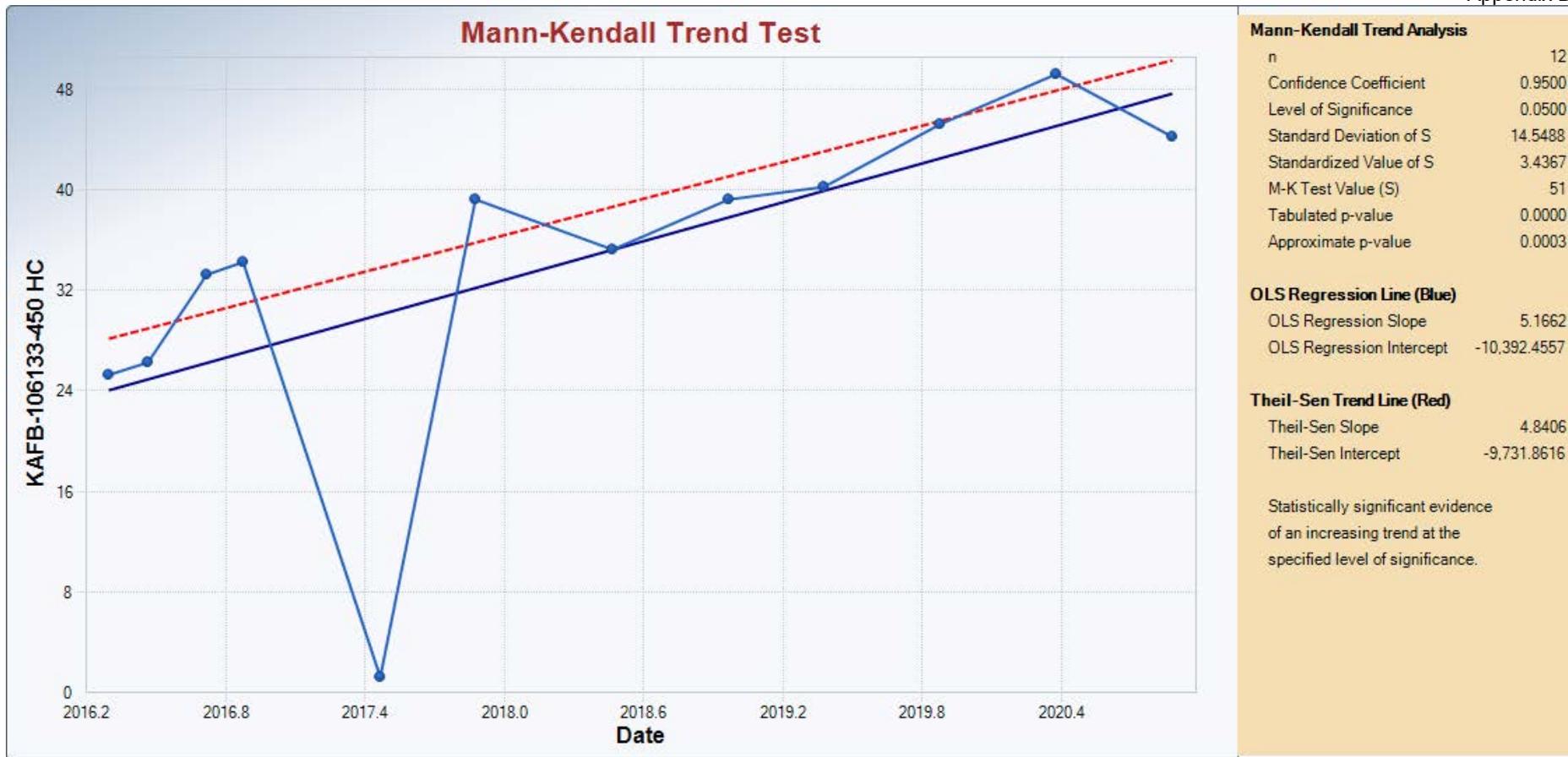
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.4799
Standardized Value of S	1.7956
M-K Test Value (S)	27
Tabulated p-value	0.0430
Approximate p-value	0.0363
OLS Regression Line (Blue)	
OLS Regression Slope	5.3001
OLS Regression Intercept	-10,675.6015
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	8.1667
Theil-Sen Intercept	-16,470.3542
Statistically significant evidence of an increasing trend at the specified level of significance.	

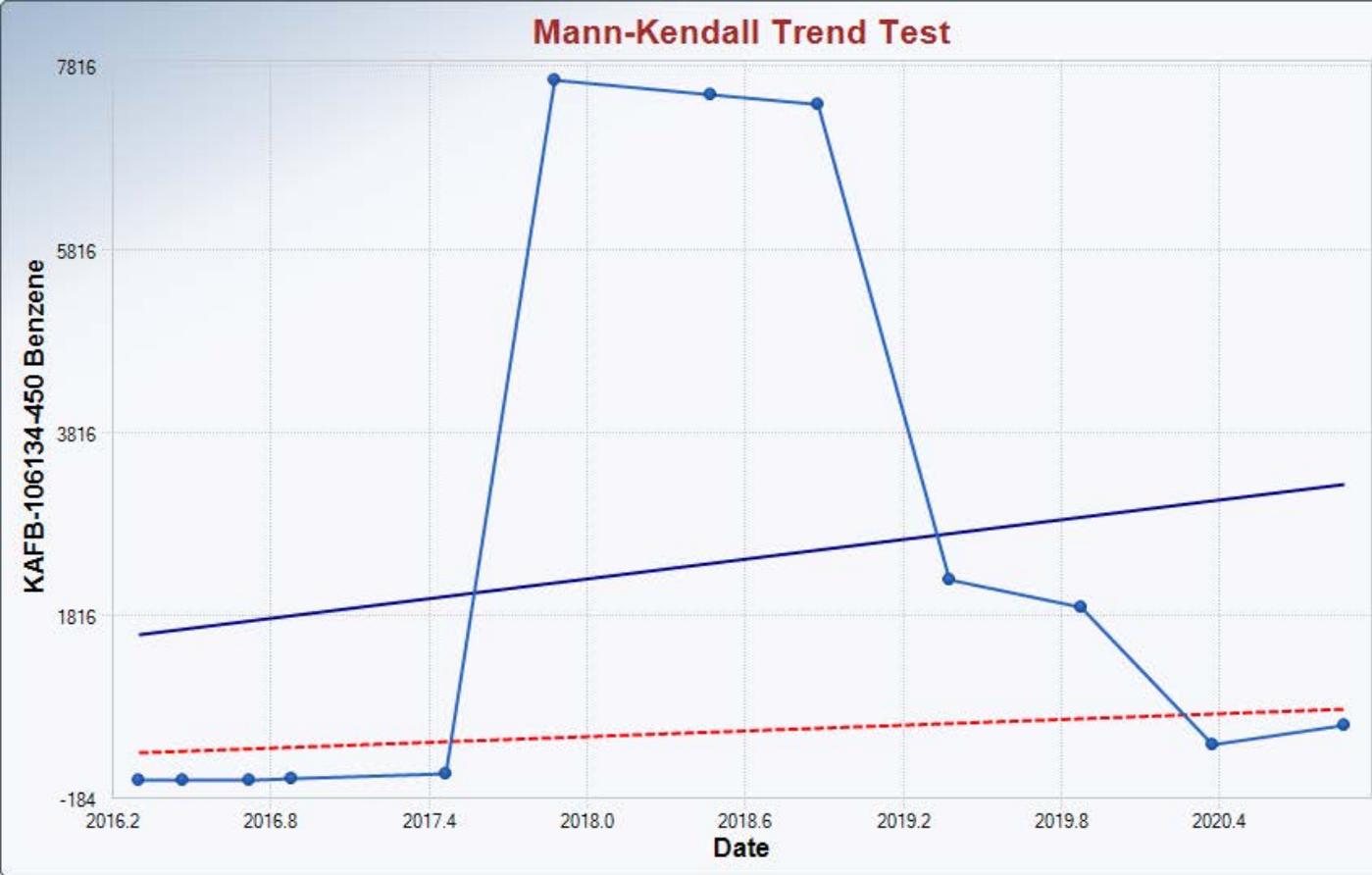




Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	4.0458
M-K Test Value (S)	60
Tabulated p-value	0.0000
Approximate p-value	0.0000
OLS Regression Line (Blue)	
OLS Regression Slope	51.3177
OLS Regression Intercept	-103,453.7835
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	50.6429
Theil-Sen Intercept	-102,101.3371
Statistically significant evidence of an increasing trend at the specified level of significance.	







Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	1.4400
M-K Test Value (S)	22
Tabulated p-value	0.0760
Approximate p-value	0.0749

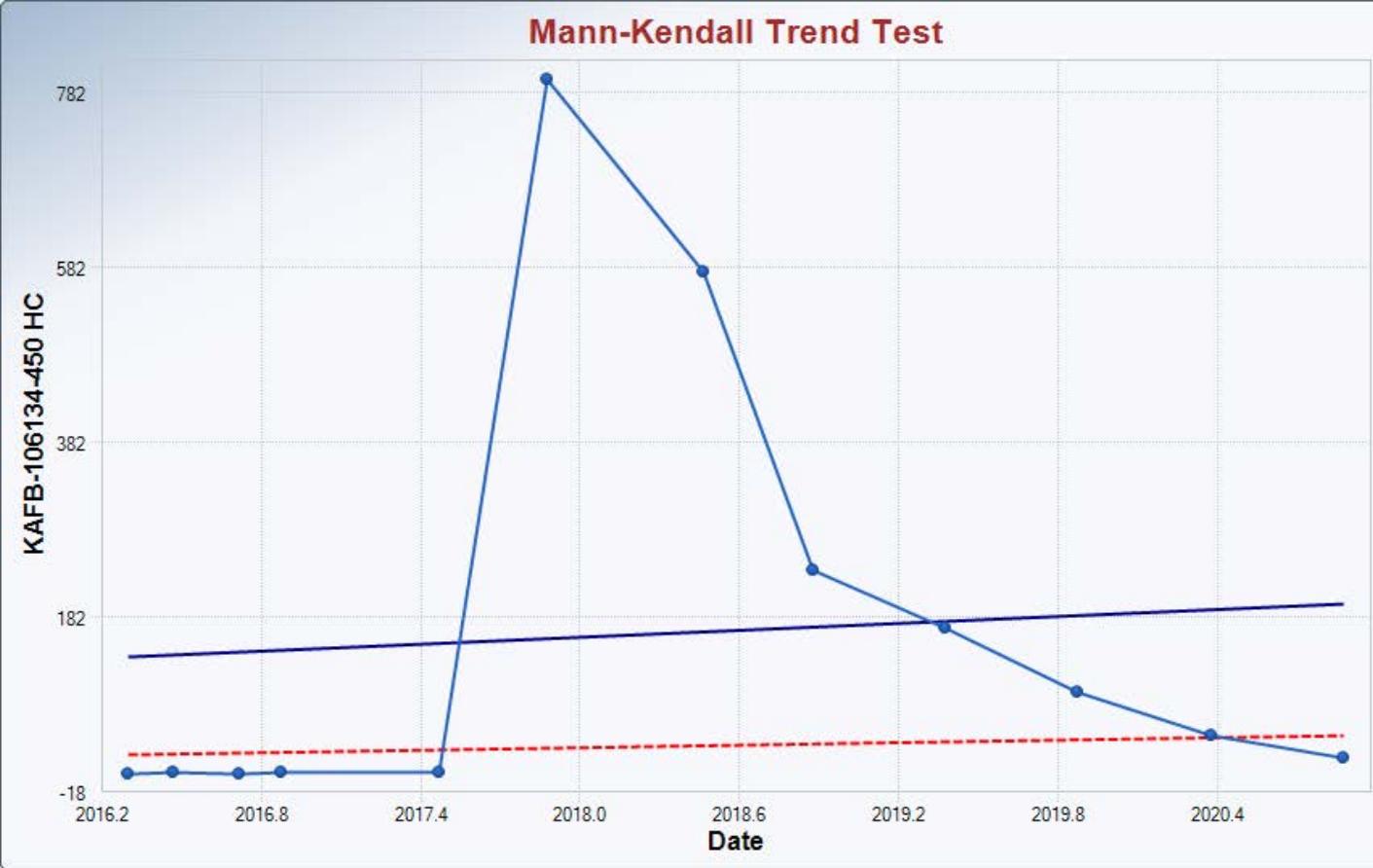
  

OLS Regression Line (Blue)	
OLS Regression Slope	360.1135
OLS Regression Intercept	-724,480.6721

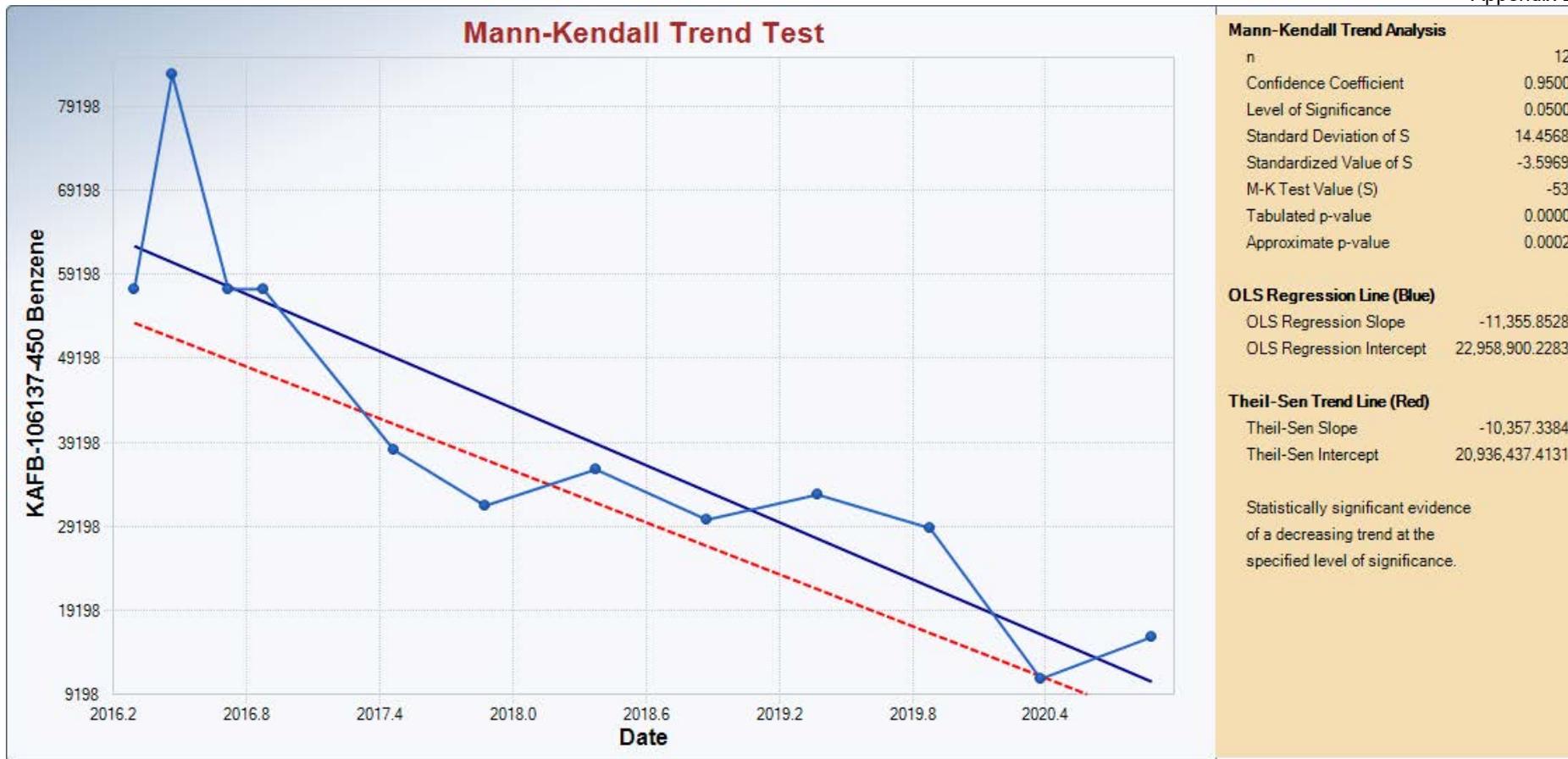
  

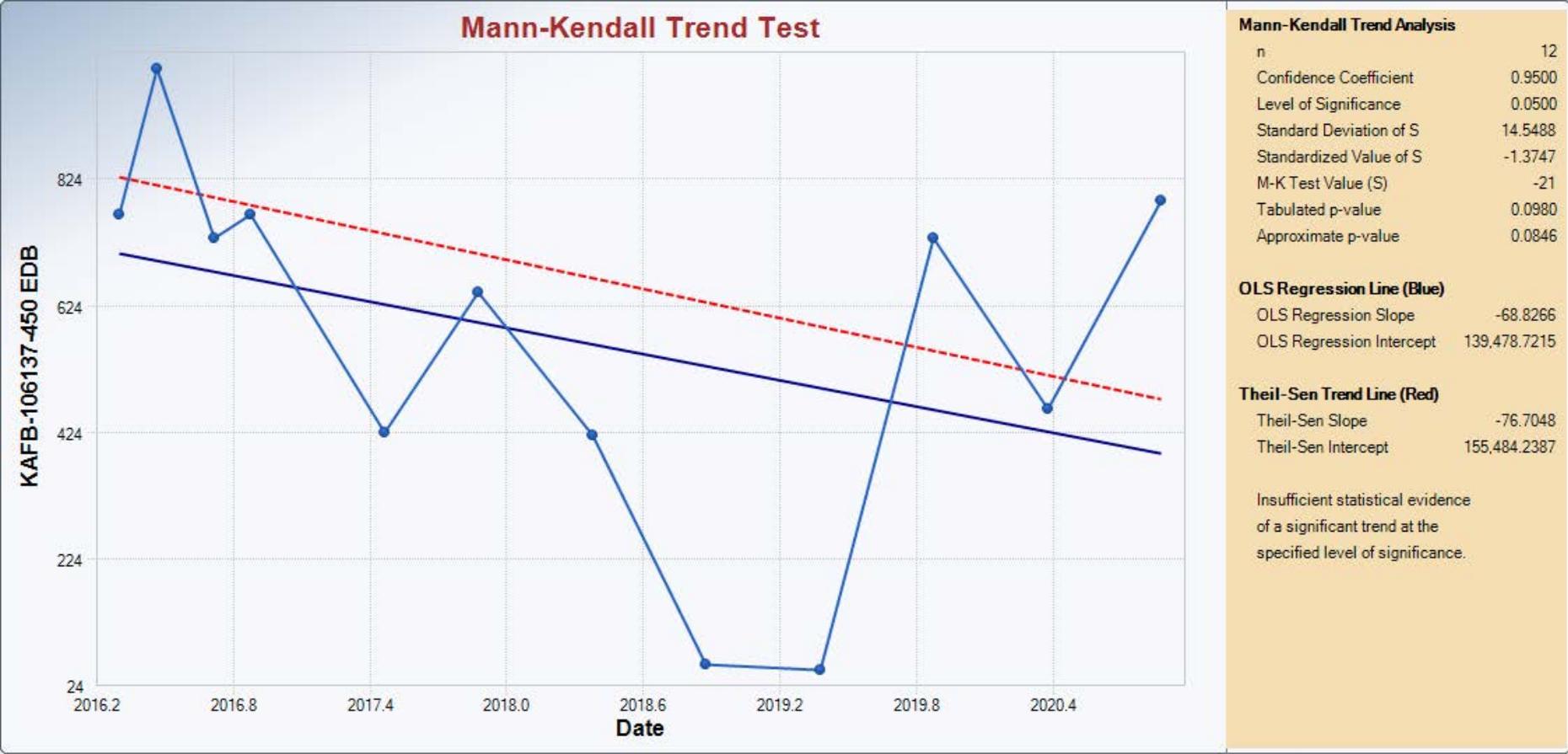
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	107.0238
Theil-Sen Intercept	-215,482.4516

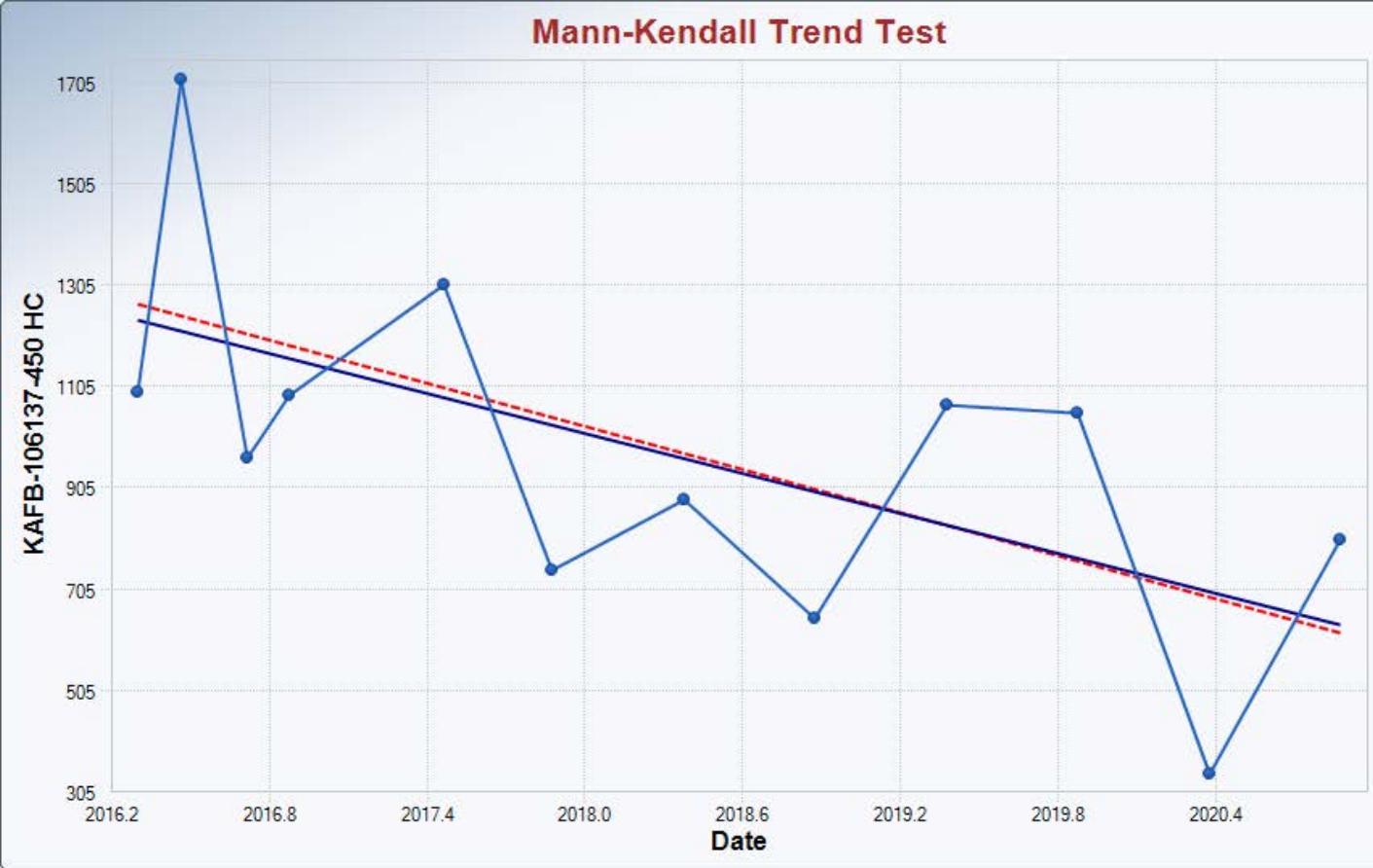
Insufficient statistical evidence of a significant trend at the specified level of significance.



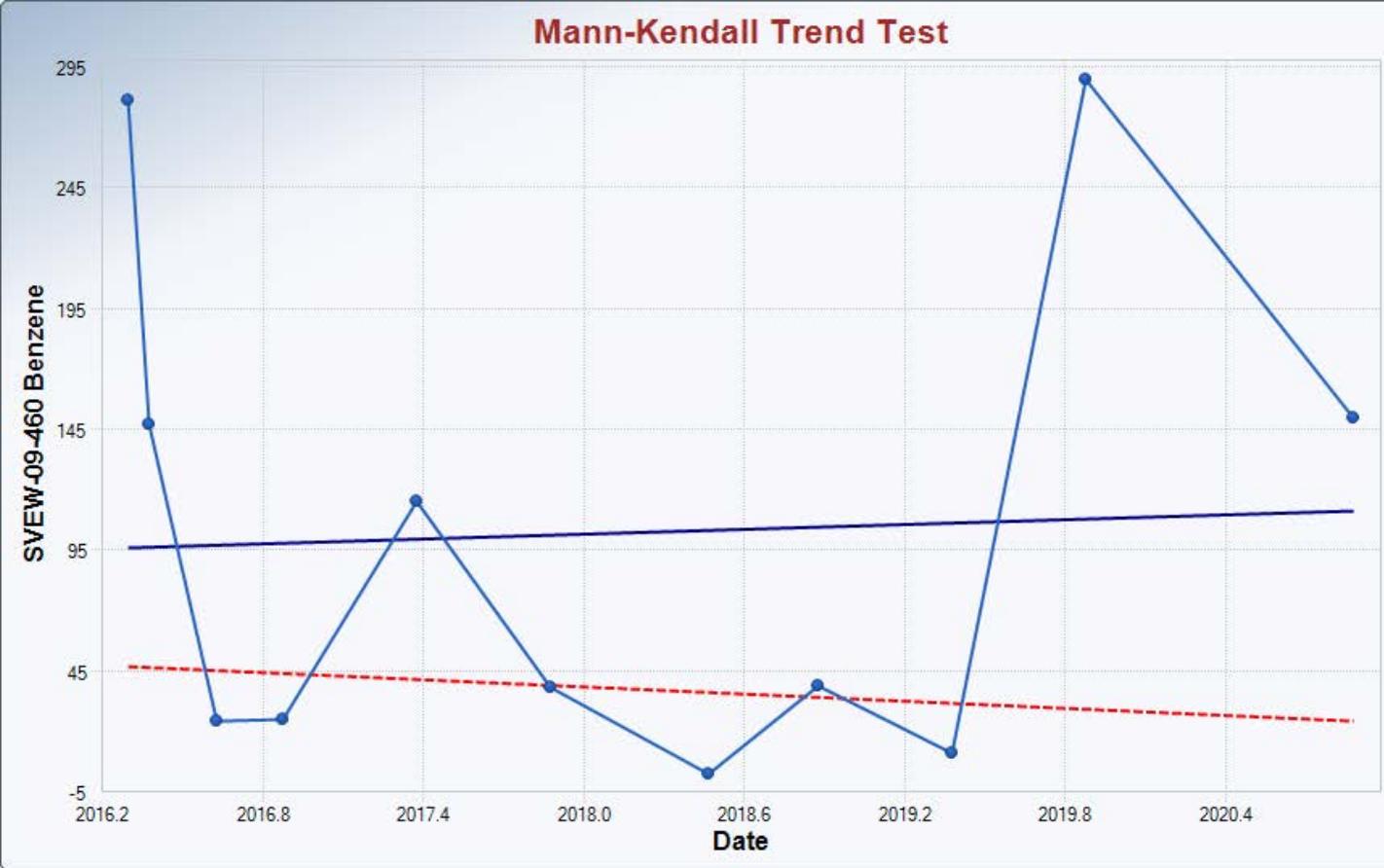
Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.4222
Standardized Value of S	1.1787
M-K Test Value (S)	18
Tabulated p-value	0.1250
Approximate p-value	0.1193
OLS Regression Line (Blue)	
OLS Regression Slope	13.0215
OLS Regression Intercept	-26,117.7075
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	4.7763
Theil-Sen Intercept	-9,605.7158
Insufficient statistical evidence of a significant trend at the specified level of significance.	







Mann-Kendall Trend Analysis	
n	12
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	14.5831
Standardized Value of S	-2.1257
M-K Test Value (S)	-32
Tabulated p-value	0.0160
Approximate p-value	0.0168
OLS Regression Line (Blue)	
OLS Regression Slope	-131.5935
OLS Regression Intercept	266,561.3063
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-142.0463
Theil-Sen Intercept	287,668.2896
Statistically significant evidence of a decreasing trend at the specified level of significance.	



Mann-Kendall Trend Analysis	
n	11
Confidence Coefficient	0.9500
Level of Significance	0.0500
Standard Deviation of S	12.8452
Standardized Value of S	0.0000
M-K Test Value (S)	-1
Tabulated p-value	0.5000
Approximate p-value	0.5000

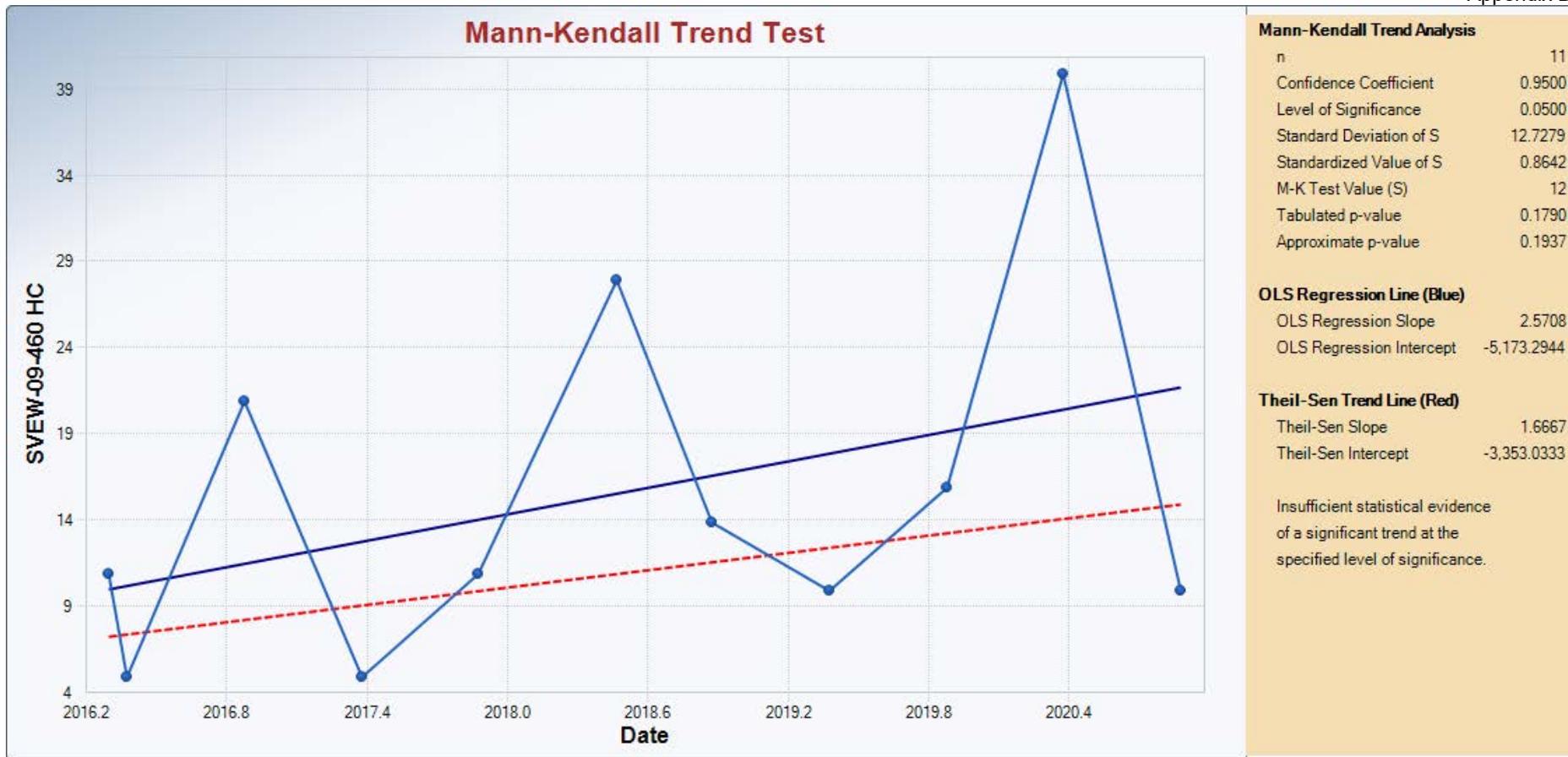
  

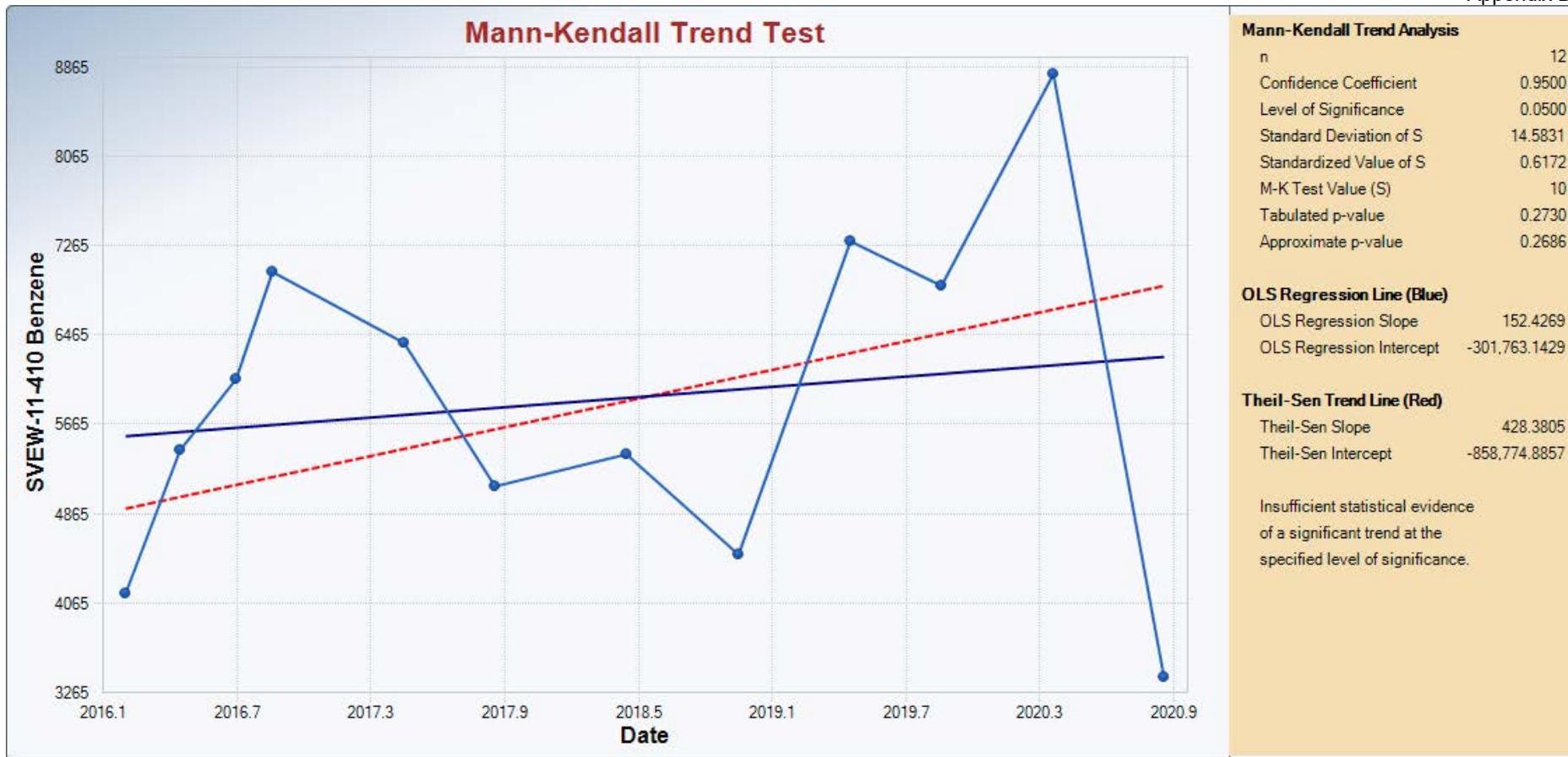
OLS Regression Line (Blue)	
OLS Regression Slope	3.3239
OLS Regression Intercept	-6.605.6291

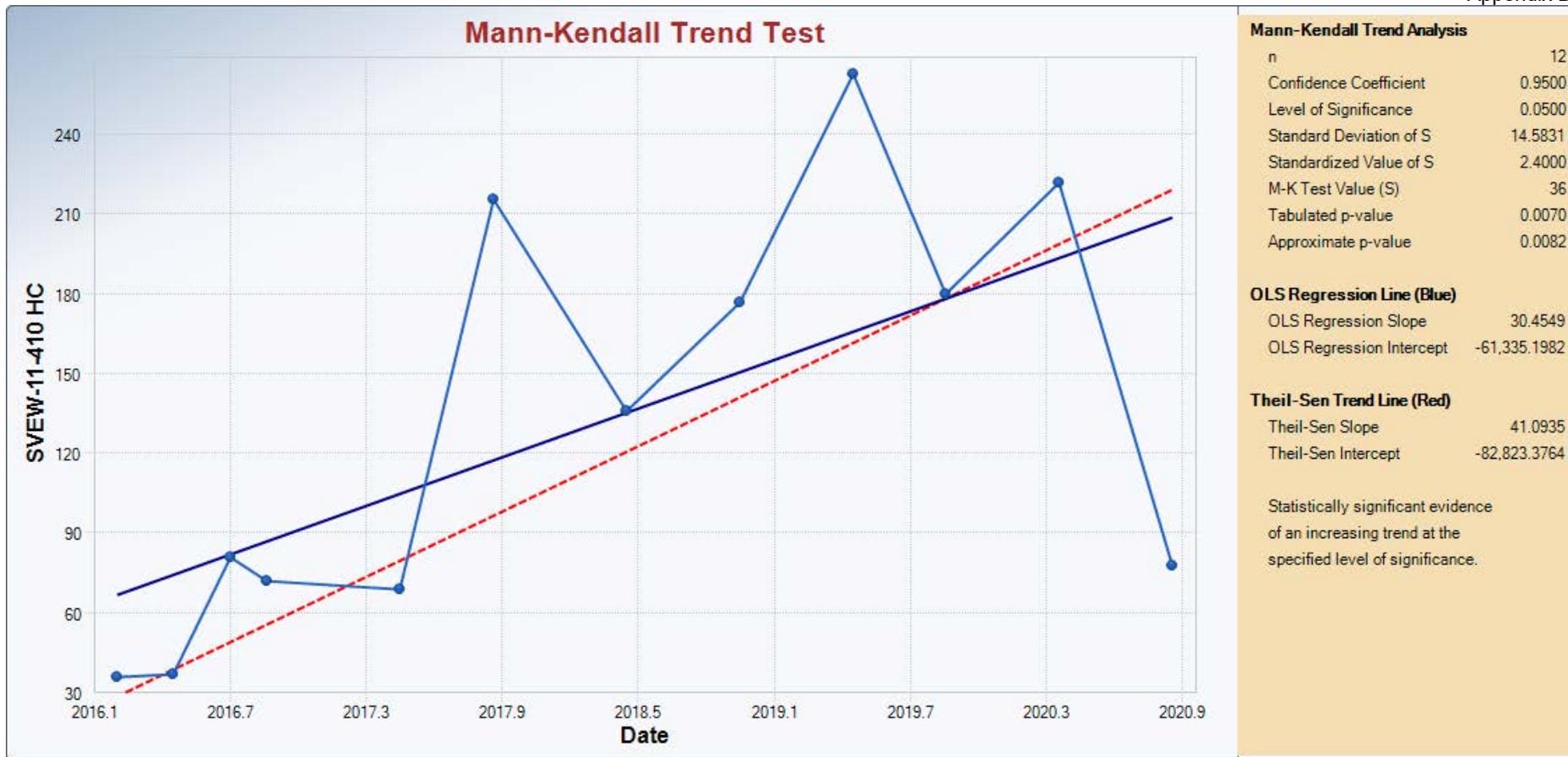
  

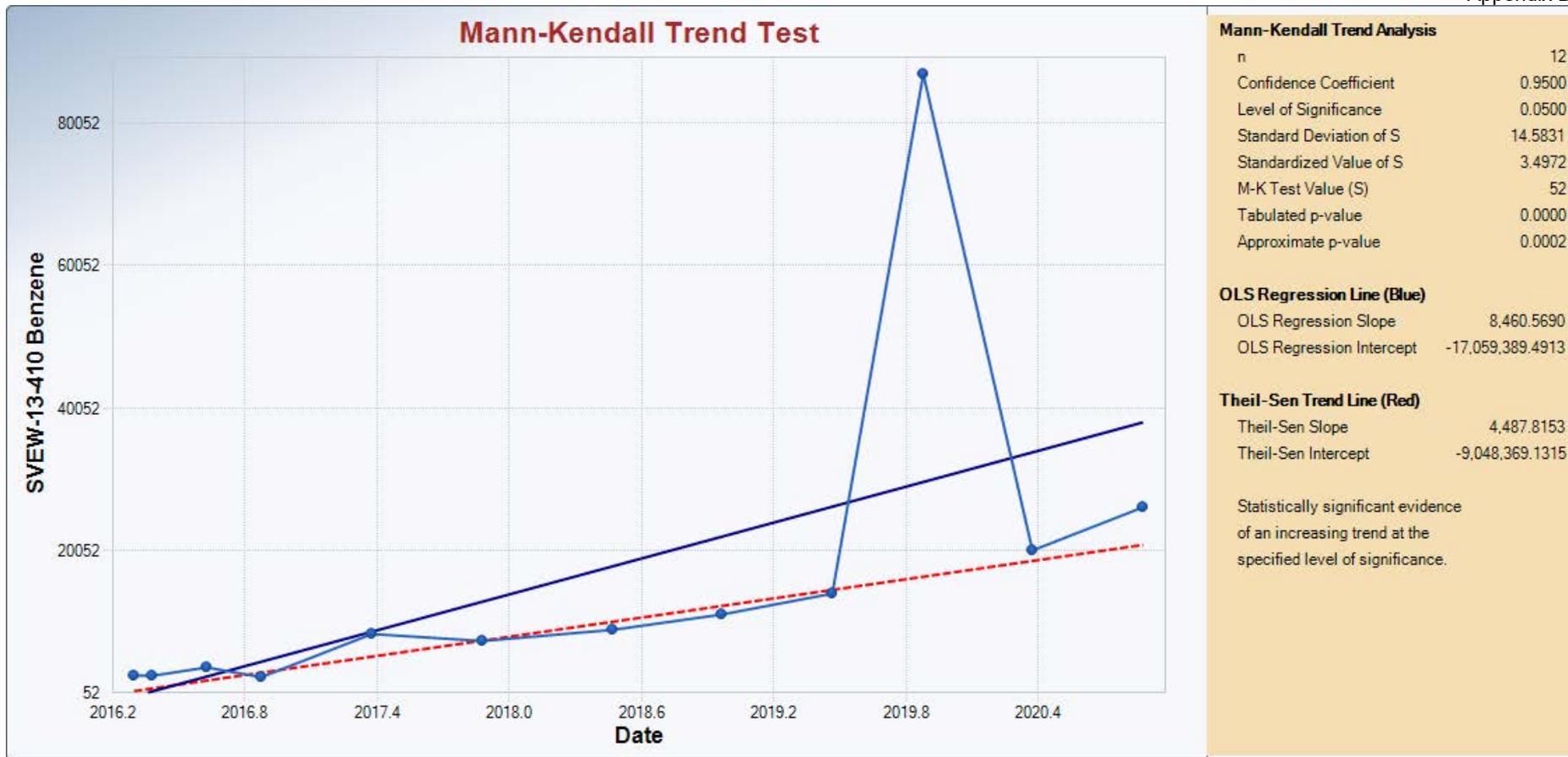
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-4.8289
Theil-Sen Intercept	9.782.9844

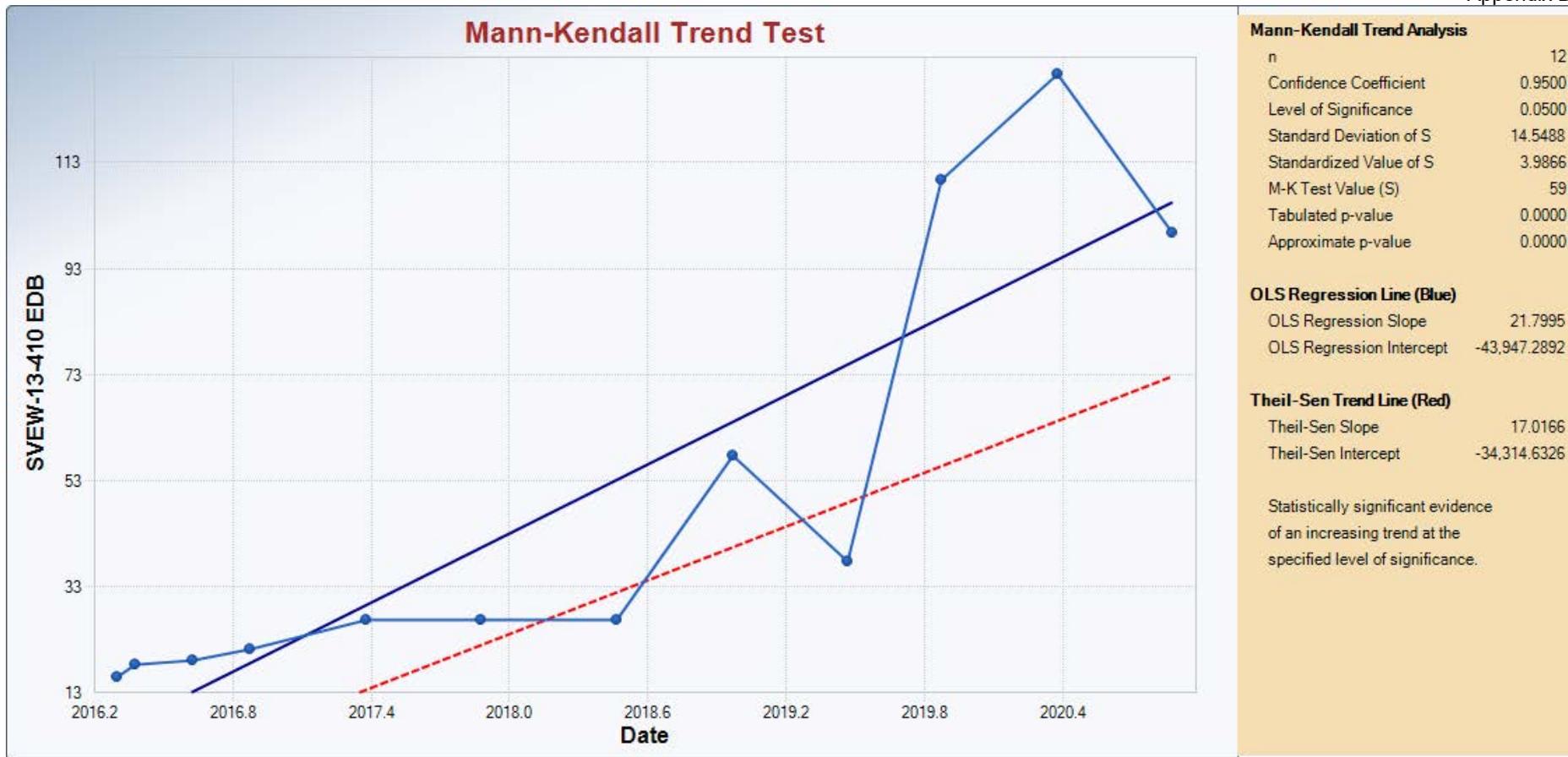
Insufficient statistical evidence of a significant trend at the specified level of significance.

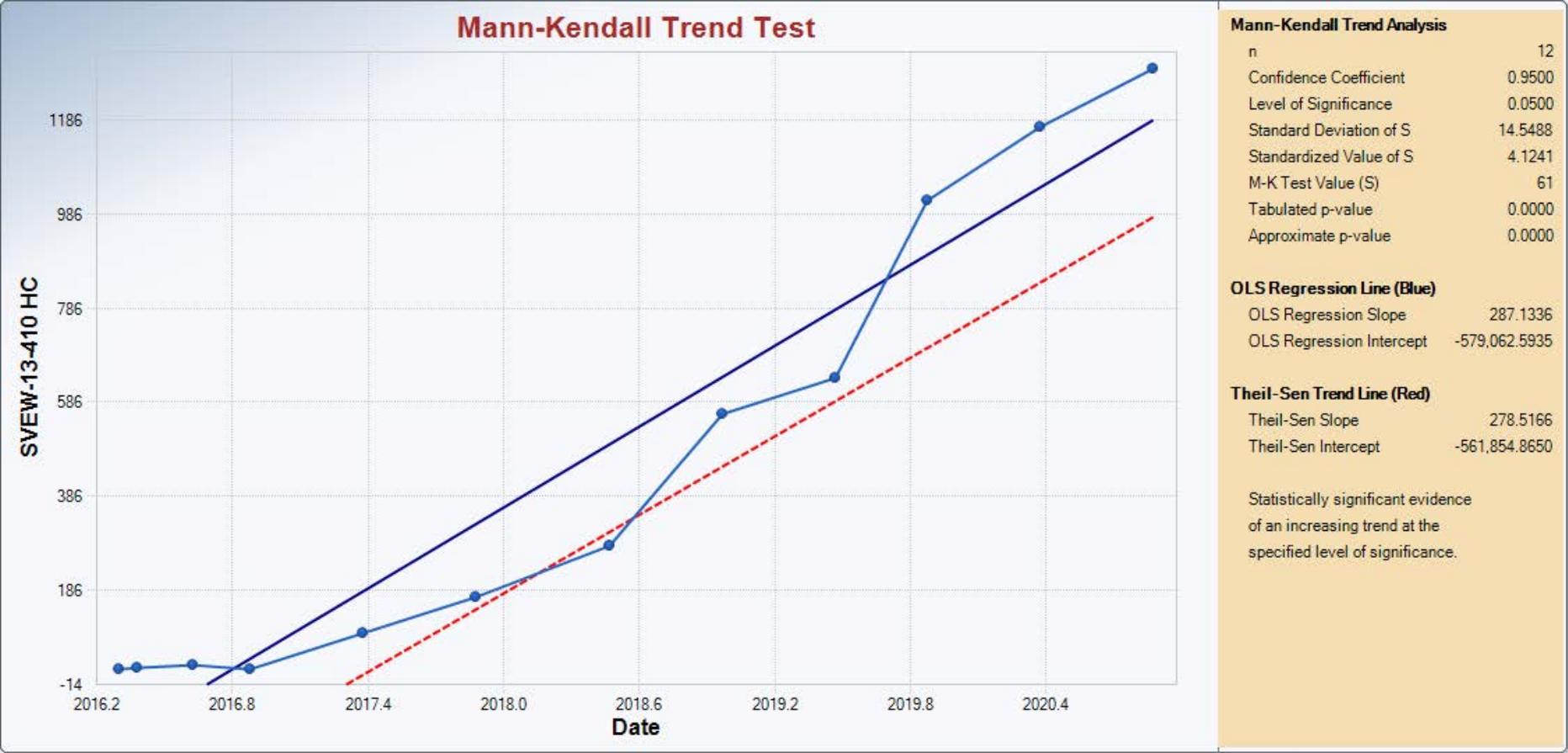


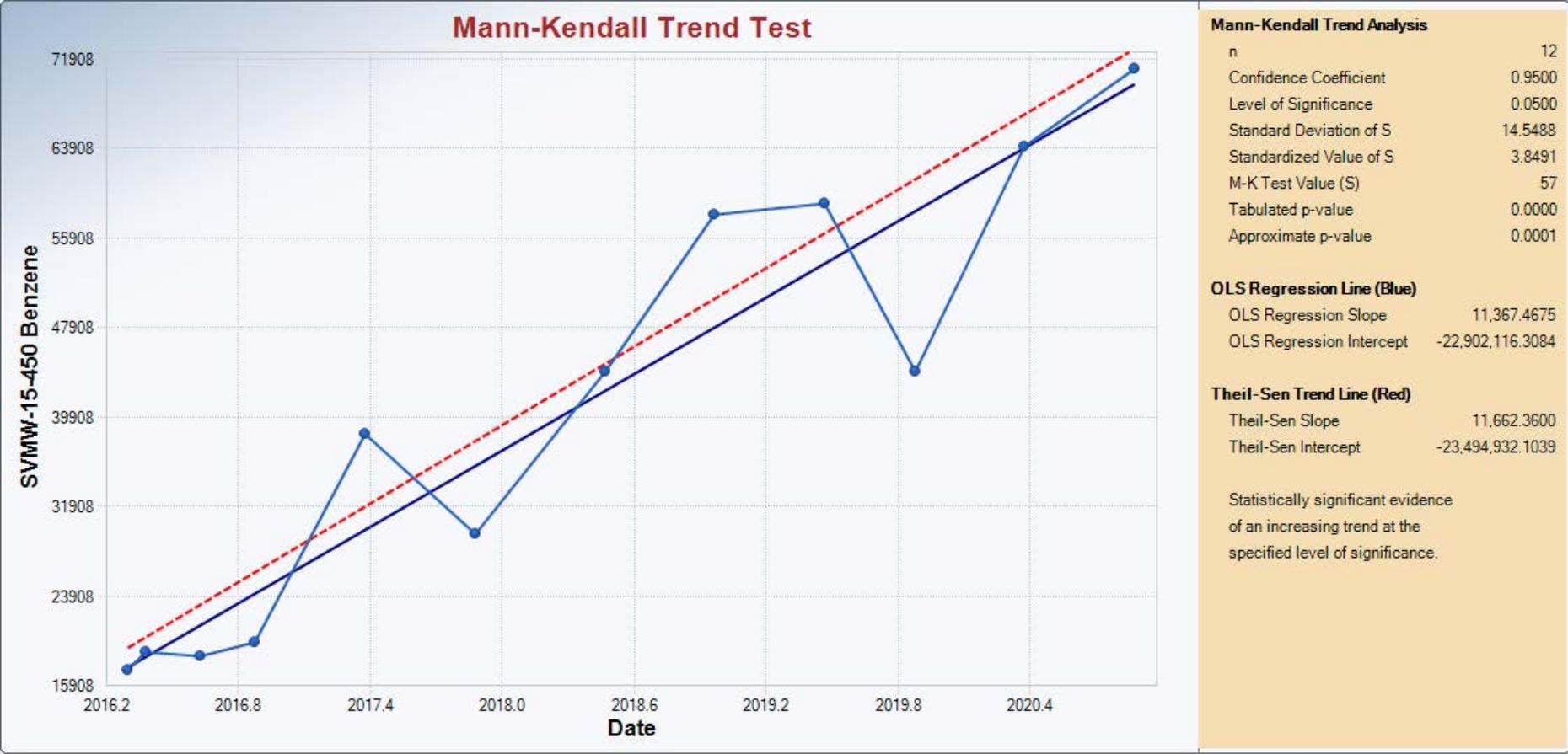


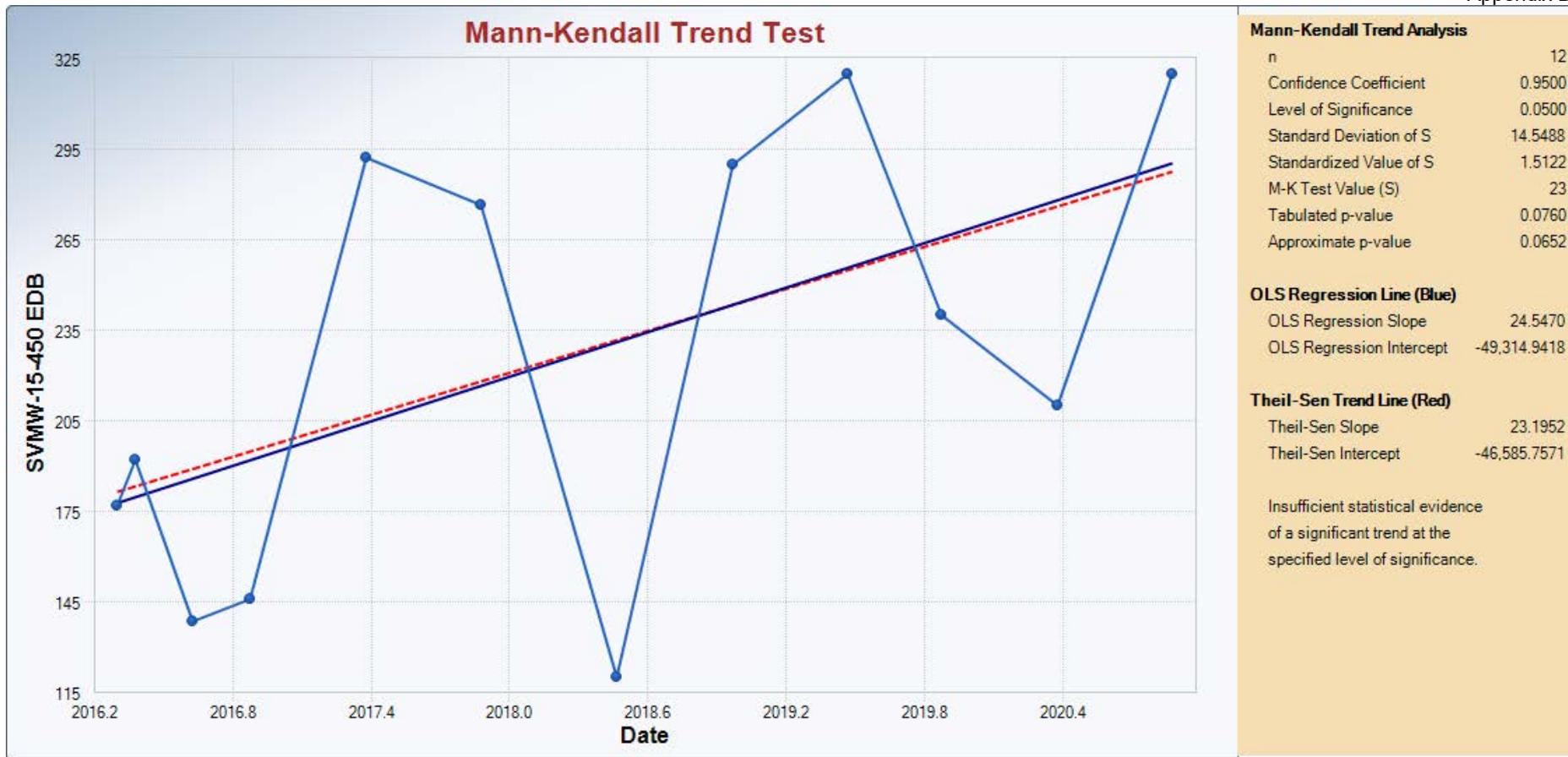


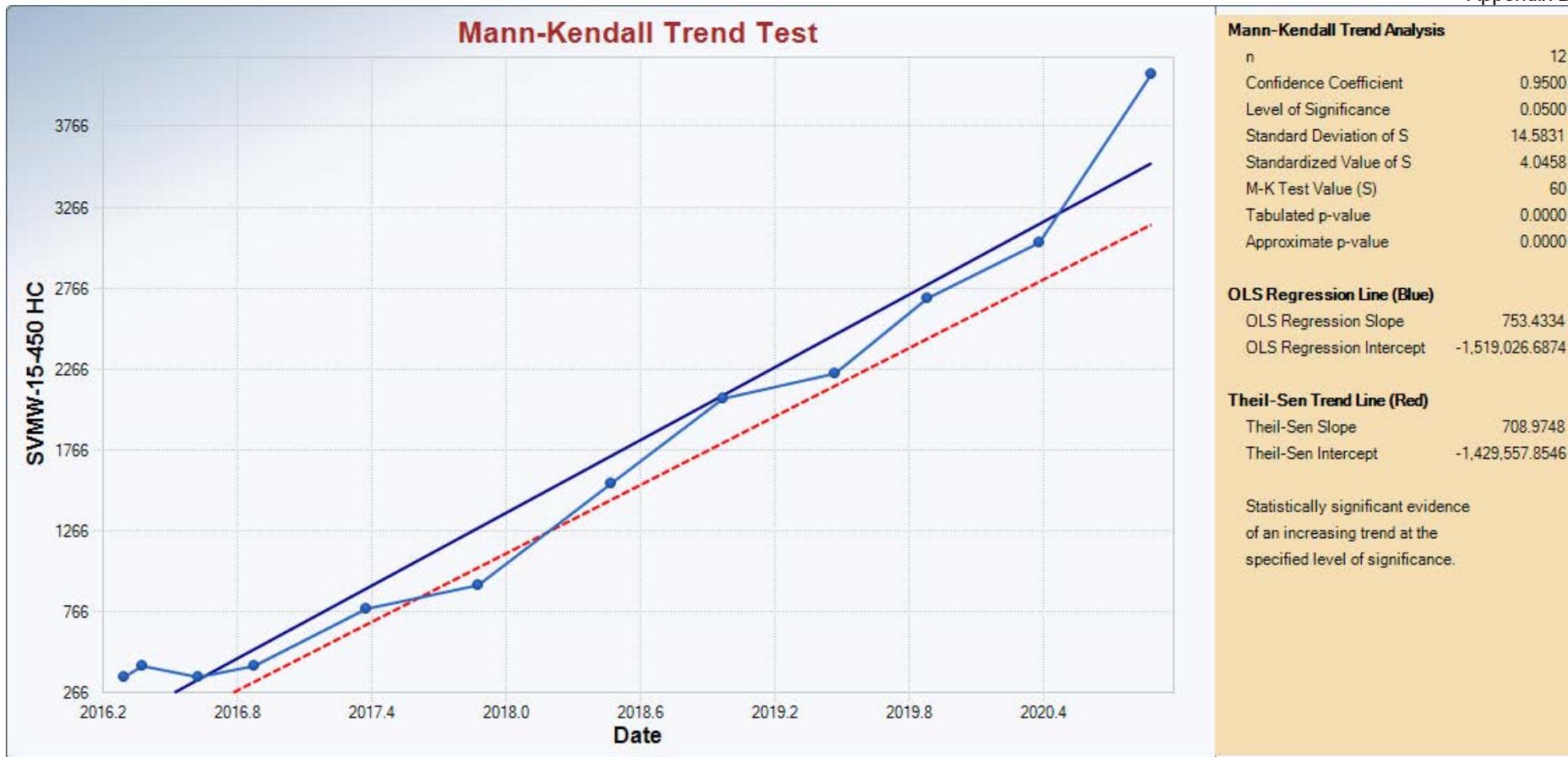












**ATTACHMENT 2**  
**ProUCL Outlier Analysis Output**

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
3	Date/Time of Computation			ProUCL 5.11/22/2021 11:14:41 AM								
4				From File		WorkSheet.xls						
5				Full Precision		OFF						
6												
7												
8	<b>Dixon's Outlier Test for KAFB-106028-450 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 35.14 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.901											
18												
19	For 10% significance level, 35.14 is an outlier.											
20	For 5% significance level, 35.14 is an outlier.											
21	For 1% significance level, 35.14 is an outlier.											
22												
23	<b>2. Observation Value 0.63 is a Potential Outlier (Lower Tail)</b>											
24												
25	Test Statistic: 0.086											
26												
27	For 10% significance level, 0.63 is not an outlier.											
28	For 5% significance level, 0.63 is not an outlier.											
29	For 1% significance level, 0.63 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
3	Date/Time of Computation			ProUCL 5.11/22/2021 11:14:20 AM								
4				From File			WorkSheet.xls					
5				Full Precision			OFF					
6												
7												
8	<b>Dixon's Outlier Test for KAFB-106028-450 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 149 is a Potential Outlier (Upper Tail)?</b>											
16												
17	Test Statistic: 0.973											
18												
19	For 10% significance level, 149 is an outlier.											
20	For 5% significance level, 149 is an outlier.											
21	For 1% significance level, 149 is an outlier.											
22												
23	<b>2. Observation Value 0 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.000											
26												
27	For 10% significance level, 0 is not an outlier.											
28	For 5% significance level, 0 is not an outlier.											
29	For 1% significance level, 0 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
3	Date/Time of Computation			ProUCL 5.11/22/2021 11:10:24 AM								
4				From File		WorkSheet.xls						
5				Full Precision		OFF						
6												
7												
8	<b>Dixon's Outlier Test for KAFB-106110-350 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 217.24 is a Potential Outlier (Upper Tail)?</b>											
16												
17	Test Statistic: 0.964											
18												
19	For 10% significance level, 217.24 is an outlier.											
20	For 5% significance level, 217.24 is an outlier.											
21	For 1% significance level, 217.24 is an outlier.											
22												
23	<b>2. Observation Value 1.2 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.009											
26												
27	For 10% significance level, 1.2 is not an outlier.											
28	For 5% significance level, 1.2 is not an outlier.											
29	For 1% significance level, 1.2 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
3	Date/Time of Computation			ProUCL 5.11/22/2021 11:15:59 AM								
4				From File		WorkSheet.xls						
5				Full Precision		OFF						
6												
7												
8	<b>Dixon's Outlier Test for KAFB-106116-450 EDB</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 1200 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.345											
18												
19	For 10% significance level, 1200 is not an outlier.											
20	For 5% significance level, 1200 is not an outlier.											
21	For 1% significance level, 1200 is not an outlier.											
22												
23	<b>2. Observation Value 230 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.649											
26												
27	For 10% significance level, 230 is an outlier.											
28	For 5% significance level, 230 is an outlier.											
29	For 1% significance level, 230 is an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
3	Date/Time of Computation			ProUCL 5.11/22/2021 10:12:00 AM								
4				From File			WorkSheet.xls					
5				Full Precision			OFF					
6												
7												
8	<b>Dixon's Outlier Test for KAFB-106118-160 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 47.92 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.887											
18												
19	For 10% significance level, 47.92 is an outlier.											
20	For 5% significance level, 47.92 is an outlier.											
21	For 1% significance level, 47.92 is an outlier.											
22												
23	<b>2. Observation Value 0.319468303 is a Potential Outlier (Lower Tail)</b>											
24												
25	Test Statistic: 0.041											
26												
27	For 10% significance level, 0.319468303 is not an outlier.											
28	For 5% significance level, 0.319468303 is not an outlier.											
29	For 1% significance level, 0.319468303 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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4				From File			WorkSheet.xls					
5				Full Precision			OFF					
6												
7												
8	<b>Dixon's Outlier Test for KAFB-106118-160 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 152 is a Potential Outlier (Upper Tail)?</b>											
16												
17	Test Statistic: 0.967											
18												
19	For 10% significance level, 152 is an outlier.											
20	For 5% significance level, 152 is an outlier.											
21	For 1% significance level, 152 is an outlier.											
22												
23	<b>2. Observation Value 0 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.000											
26												
27	For 10% significance level, 0 is not an outlier.											
28	For 5% significance level, 0 is not an outlier.											
29	For 1% significance level, 0 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
3	Date/Time of Computation			ProUCL 5.11/22/2021 11:00:21 AM								
4				From File		WorkSheet.xls						
5				Full Precision		OFF						
6												
7												
8	<b>Dixon's Outlier Test for KAFB-106118-250 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 1458 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.977											
18												
19	For 10% significance level, 1458 is an outlier.											
20	For 5% significance level, 1458 is an outlier.											
21	For 1% significance level, 1458 is an outlier.											
22												
23	<b>2. Observation Value 0 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.022											
26												
27	For 10% significance level, 0 is not an outlier.											
28	For 5% significance level, 0 is not an outlier.											
29	For 1% significance level, 0 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
3	Date/Time of Computation			ProUCL 5.11/22/2021 11:12:39 AM								
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6												
7												
8	<b>Dixon's Outlier Test for KAFB-106118-350 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 153.34 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.903											
18												
19	For 10% significance level, 153.34 is an outlier.											
20	For 5% significance level, 153.34 is an outlier.											
21	For 1% significance level, 153.34 is an outlier.											
22												
23	<b>2. Observation Value 0.37 is a Potential Outlier (Lower Tail)</b>											
24												
25	Test Statistic: 0.042											
26												
27	For 10% significance level, 0.37 is not an outlier.											
28	For 5% significance level, 0.37 is not an outlier.											
29	For 1% significance level, 0.37 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
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6												
7												
8	<b>Dixon's Outlier Test for KAFB-106118-350 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 312 is a Potential Outlier (Upper Tail)?</b>											
16												
17	Test Statistic: 0.987											
18												
19	For 10% significance level, 312 is an outlier.											
20	For 5% significance level, 312 is an outlier.											
21	For 1% significance level, 312 is an outlier.											
22												
23	<b>2. Observation Value 0 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.000											
26												
27	For 10% significance level, 0 is not an outlier.											
28	For 5% significance level, 0 is not an outlier.											
29	For 1% significance level, 0 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
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7												
8	<b>Dixon's Outlier Test for KAFB-106119-150 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 6389.37 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.990											
18												
19	For 10% significance level, 6389.37 is an outlier.											
20	For 5% significance level, 6389.37 is an outlier.											
21	For 1% significance level, 6389.37 is an outlier.											
22												
23	<b>2. Observation Value 1.76 is a Potential Outlier (Lower Tail)</b>											
24												
25	Test Statistic: 0.001											
26												
27	For 10% significance level, 1.76 is not an outlier.											
28	For 5% significance level, 1.76 is not an outlier.											
29	For 1% significance level, 1.76 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
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7												
8	<b>Dixon's Outlier Test for KAFB-106119-150 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 1937 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.993											
18												
19	For 10% significance level, 1937 is an outlier.											
20	For 5% significance level, 1937 is an outlier.											
21	For 1% significance level, 1937 is an outlier.											
22												
23	<b>2. Observation Value 0 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.000											
26												
27	For 10% significance level, 0 is not an outlier.											
28	For 5% significance level, 0 is not an outlier.											
29	For 1% significance level, 0 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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6												
7												
8	<b>Dixon's Outlier Test for KAFB-106128-050 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 575.0429448 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.813											
18												
19	For 10% significance level, 575.0429448 is an outlier.											
20	For 5% significance level, 575.0429448 is an outlier.											
21	For 1% significance level, 575.0429448 is an outlier.											
22												
23	<b>2. Observation Value 0.42 is a Potential Outlier (Lower Tail)</b>											
24												
25	Test Statistic: 0.006											
26												
27	For 10% significance level, 0.42 is not an outlier.											
28	For 5% significance level, 0.42 is not an outlier.											
29	For 1% significance level, 0.42 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
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6												
7												
8	<b>Dixon's Outlier Test for KAFB-106128-250 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 22043.31 is a Potential Outlier (Upper</b>											
16												
17	Test Statistic: 0.999											
18												
19	For 10% significance level, 22043.31 is an outlier.											
20	For 5% significance level, 22043.31 is an outlier.											
21	For 1% significance level, 22043.31 is an outlier.											
22												
23	<b>2. Observation Value 0.67 is a Potential Outlier (Lower Tail)</b>											
24												
25	Test Statistic: 0.015											
26												
27	For 10% significance level, 0.67 is not an outlier.											
28	For 5% significance level, 0.67 is not an outlier.											
29	For 1% significance level, 0.67 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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5				Full Precision			OFF					
6												
7												
8	<b>Dixon's Outlier Test for KAFB-106128-250 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 3890 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.996											
18												
19	For 10% significance level, 3890 is an outlier.											
20	For 5% significance level, 3890 is an outlier.											
21	For 1% significance level, 3890 is an outlier.											
22												
23	<b>2. Observation Value 0 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.007											
26												
27	For 10% significance level, 0 is not an outlier.											
28	For 5% significance level, 0 is not an outlier.											
29	For 1% significance level, 0 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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6												
7												
8	<b>Dixon's Outlier Test for KAFB-106139-250 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 39 is a Potential Outlier (Upper Tail)?</b>											
16												
17	Test Statistic: 0.872											
18												
19	For 10% significance level, 39 is an outlier.											
20	For 5% significance level, 39 is an outlier.											
21	For 1% significance level, 39 is an outlier.											
22												
23	<b>2. Observation Value 0 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.000											
26												
27	For 10% significance level, 0 is not an outlier.											
28	For 5% significance level, 0 is not an outlier.											
29	For 1% significance level, 0 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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6												
7												
8	<b>Dixon's Outlier Test for SVEW-08-260 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 37000 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.963											
18												
19	For 10% significance level, 37000 is an outlier.											
20	For 5% significance level, 37000 is an outlier.											
21	For 1% significance level, 37000 is an outlier.											
22												
23	<b>2. Observation Value 6 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.016											
26												
27	For 10% significance level, 6 is not an outlier.											
28	For 5% significance level, 6 is not an outlier.											
29	For 1% significance level, 6 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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4				From File		WorkSheet.xls						
5				Full Precision		OFF						
6												
7												
8	<b>Dixon's Outlier Test for SVEW-08-260 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 705 is a Potential Outlier (Upper Tail)?</b>											
16												
17	Test Statistic: 0.941											
18												
19	For 10% significance level, 705 is an outlier.											
20	For 5% significance level, 705 is an outlier.											
21	For 1% significance level, 705 is an outlier.											
22												
23	<b>2. Observation Value 5 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.023											
26												
27	For 10% significance level, 5 is not an outlier.											
28	For 5% significance level, 5 is not an outlier.											
29	For 1% significance level, 5 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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6												
7												
8	<b>Dixon's Outlier Test for SVEW-09-460 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 1100 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.752											
18												
19	For 10% significance level, 1100 is an outlier.											
20	For 5% significance level, 1100 is an outlier.											
21	For 1% significance level, 1100 is an outlier.											
22												
23	<b>2. Observation Value 2.3 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.076											
26												
27	For 10% significance level, 2.3 is not an outlier.											
28	For 5% significance level, 2.3 is not an outlier.											
29	For 1% significance level, 2.3 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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6												
7												
8	<b>Dixon's Outlier Test for SVEW-09-460 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 105 is a Potential Outlier (Upper Tail)?</b>											
16												
17	Test Statistic: 0.770											
18												
19	For 10% significance level, 105 is an outlier.											
20	For 5% significance level, 105 is an outlier.											
21	For 1% significance level, 105 is an outlier.											
22												
23	<b>2. Observation Value 5 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.143											
26												
27	For 10% significance level, 5 is not an outlier.											
28	For 5% significance level, 5 is not an outlier.											
29	For 1% significance level, 5 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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6												
7												
8	<b>Dixon's Outlier Test for SVMW-02-050 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 926.4580777 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.970											
18												
19	For 10% significance level, 926.4580777 is an outlier.											
20	For 5% significance level, 926.4580777 is an outlier.											
21	For 1% significance level, 926.4580777 is an outlier.											
22												
23	<b>2. Observation Value 0.42 is a Potential Outlier (Lower Tail)</b>											
24												
25	Test Statistic: 0.001											
26												
27	For 10% significance level, 0.42 is not an outlier.											
28	For 5% significance level, 0.42 is not an outlier.											
29	For 1% significance level, 0.42 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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6												
7												
8	<b>Dixon's Outlier Test for SVMW-02-050 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 1131 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.997											
18												
19	For 10% significance level, 1131 is an outlier.											
20	For 5% significance level, 1131 is an outlier.											
21	For 1% significance level, 1131 is an outlier.											
22												
23	<b>2. Observation Value 0 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.000											
26												
27	For 10% significance level, 0 is not an outlier.											
28	For 5% significance level, 0 is not an outlier.											
29	For 1% significance level, 0 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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6												
7												
8	<b>Dixon's Outlier Test for SVMW-03-100 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 16270 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.754											
18												
19	For 10% significance level, 16270 is an outlier.											
20	For 5% significance level, 16270 is an outlier.											
21	For 1% significance level, 16270 is an outlier.											
22												
23	<b>2. Observation Value 7700 is a Potential Outlier (Lower Tail)</b>											
24												
25	Test Statistic: 0.449											
26												
27	For 10% significance level, 7700 is not an outlier.											
28	For 5% significance level, 7700 is not an outlier.											
29	For 1% significance level, 7700 is not an outlier.											
30												

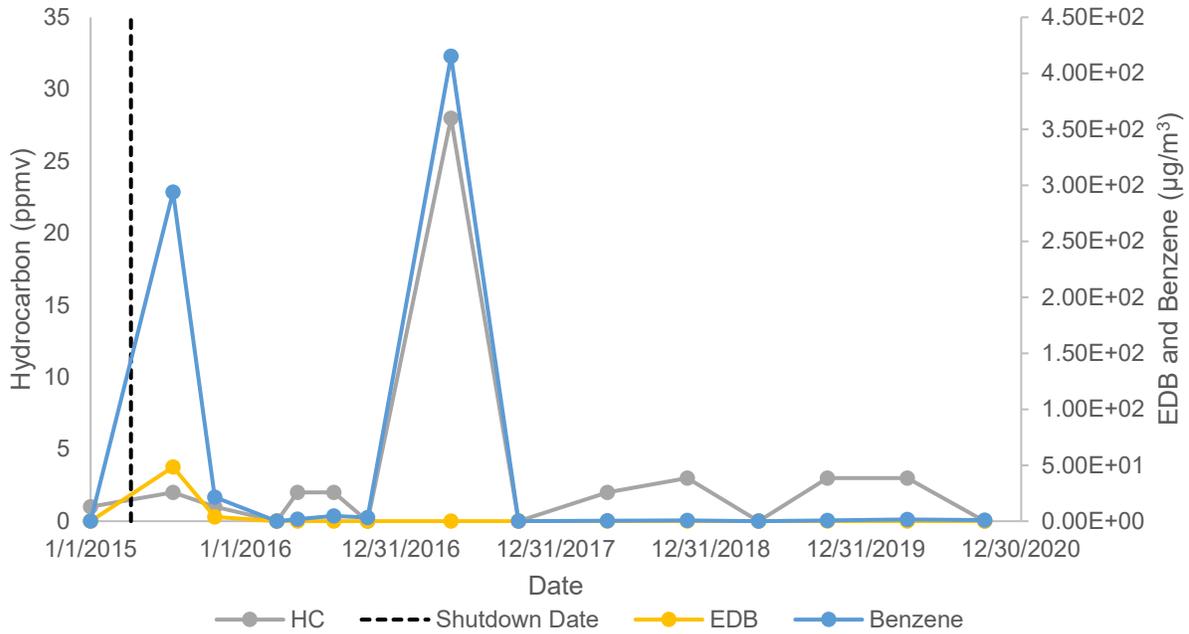
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7												
8	<b>Dixon's Outlier Test for SVMW-07-100 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 34000 is a Potential Outlier (Upper Ta</b>											
16												
17	Test Statistic: 0.961											
18												
19	For 10% significance level, 34000 is an outlier.											
20	For 5% significance level, 34000 is an outlier.											
21	For 1% significance level, 34000 is an outlier.											
22												
23	<b>2. Observation Value 240 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.021											
26												
27	For 10% significance level, 240 is not an outlier.											
28	For 5% significance level, 240 is not an outlier.											
29	For 1% significance level, 240 is not an outlier.											
30												

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>Outlier Tests for Selected Uncensored Variables</b>											
2	<b>User Selected Options</b>											
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5				Full Precision			OFF					
6												
7												
8	<b>Dixon's Outlier Test for SVMW-07-100 HC</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 6820 is a Potential Outlier (Upper Tail)</b>											
16												
17	Test Statistic: 0.977											
18												
19	For 10% significance level, 6820 is an outlier.											
20	For 5% significance level, 6820 is an outlier.											
21	For 1% significance level, 6820 is an outlier.											
22												
23	<b>2. Observation Value 8 is a Potential Outlier (Lower Tail)?</b>											
24												
25	Test Statistic: 0.004											
26												
27	For 10% significance level, 8 is not an outlier.											
28	For 5% significance level, 8 is not an outlier.											
29	For 1% significance level, 8 is not an outlier.											
30												

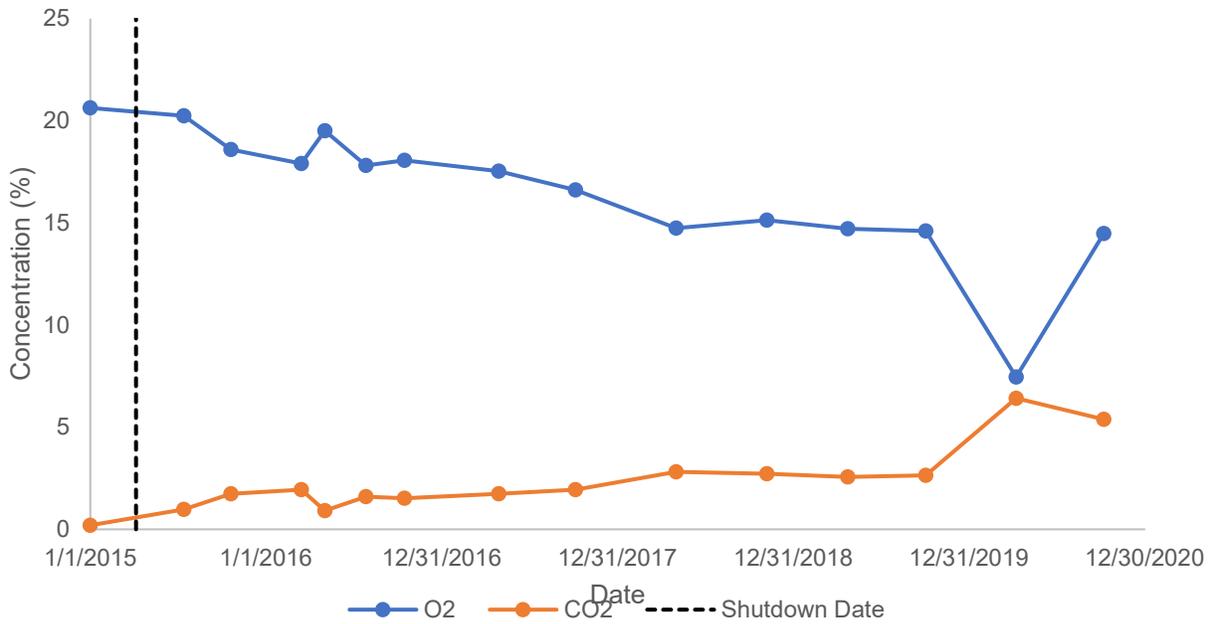
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4				From File			WorkSheet.xls					
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6												
7												
8	<b>Dixon's Outlier Test for SVMW-08-250 Benzene</b>											
9												
10	Number of Observations = 12											
11	10% critical value: 0.49											
12	5% critical value: 0.546											
13	1% critical value: 0.642											
14												
15	<b>1. Observation Value 690000 is a Potential Outlier (Upper T</b>											
16												
17	Test Statistic: 0.583											
18												
19	For 10% significance level, 690000 is an outlier.											
20	For 5% significance level, 690000 is an outlier.											
21	For 1% significance level, 690000 is not an outlier.											
22												
23	<b>2. Observation Value 383361.9632 is a Potential Outlier (Low</b>											
24												
25	Test Statistic: 0.081											
26												
27	For 10% significance level, 383361.9632 is not an outlier.											
28	For 5% significance level, 383361.9632 is not an outlier.											
29	For 1% significance level, 383361.9632 is not an outlier.											
30												

**APPENDIX D-5**  
**Soil Vapor Time Series Graphs (2015-2020)**

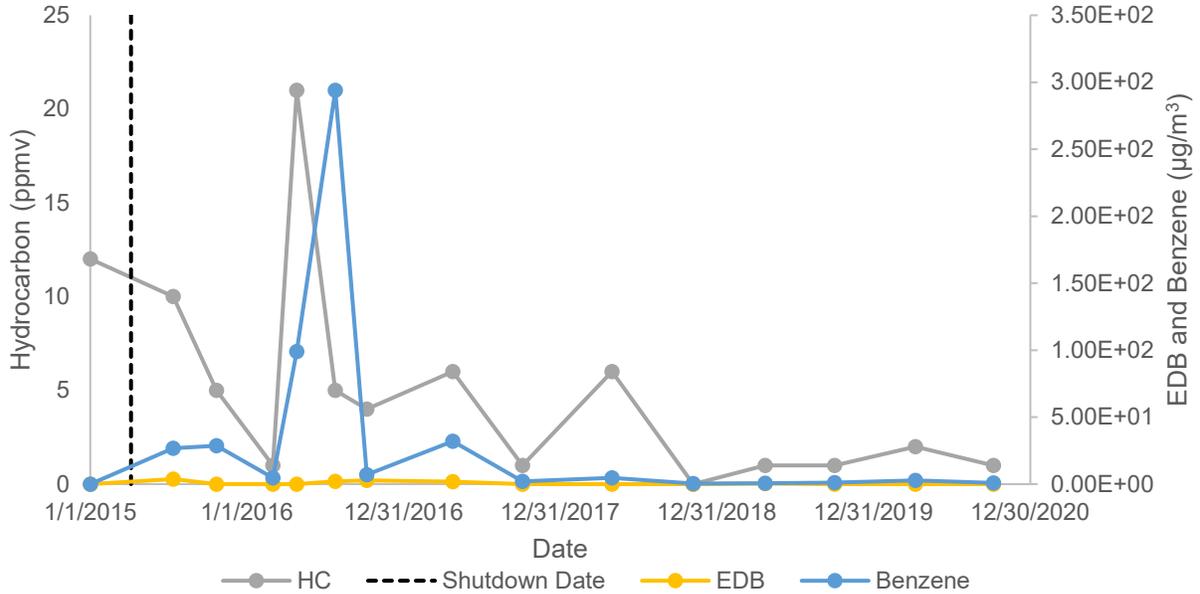
**Well ID: KAFB-106111-050**  
**Hydrocarbon, EDB, and Benzene Levels Over Time**



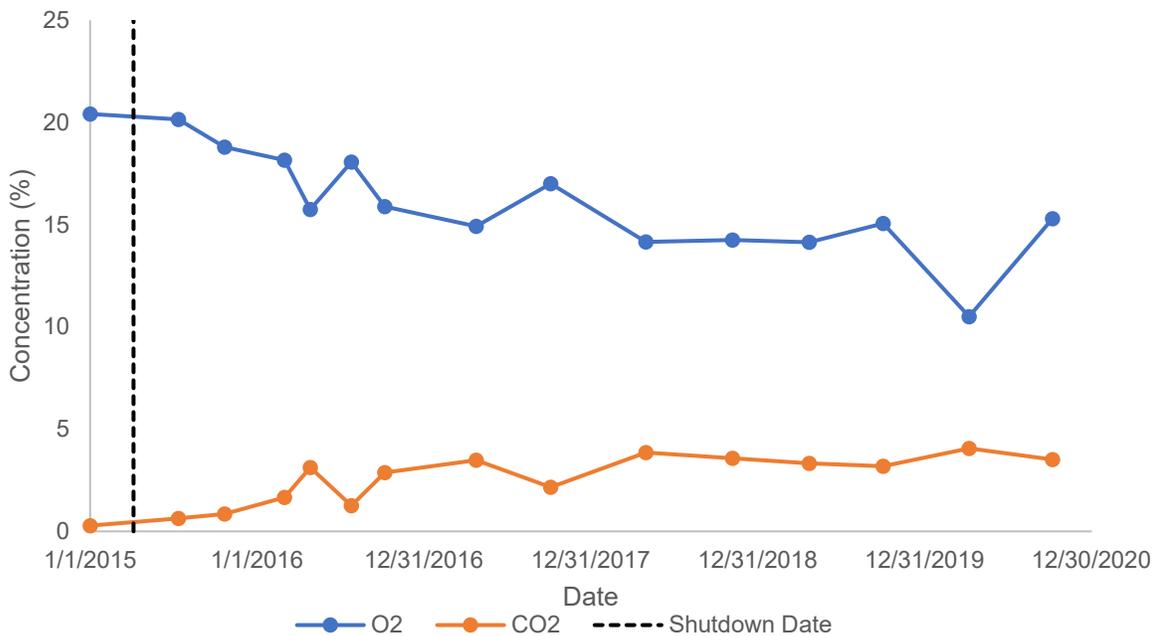
**Well ID: KAFB-106111-050**  
**Oxygen and Carbon Dioxide Concentrations Over Time**



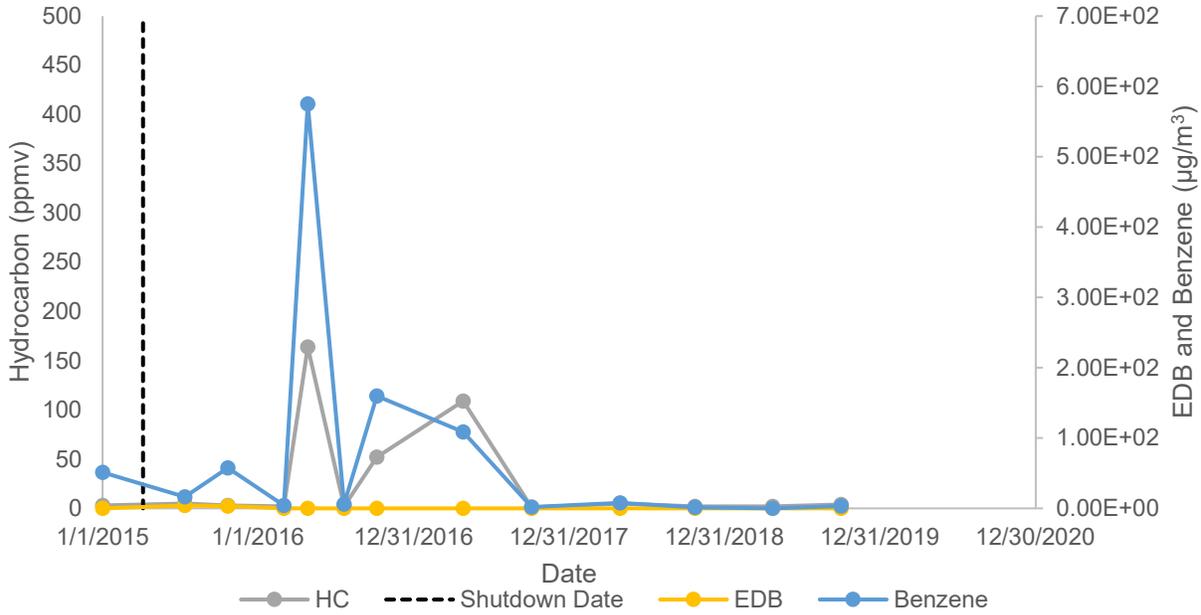
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



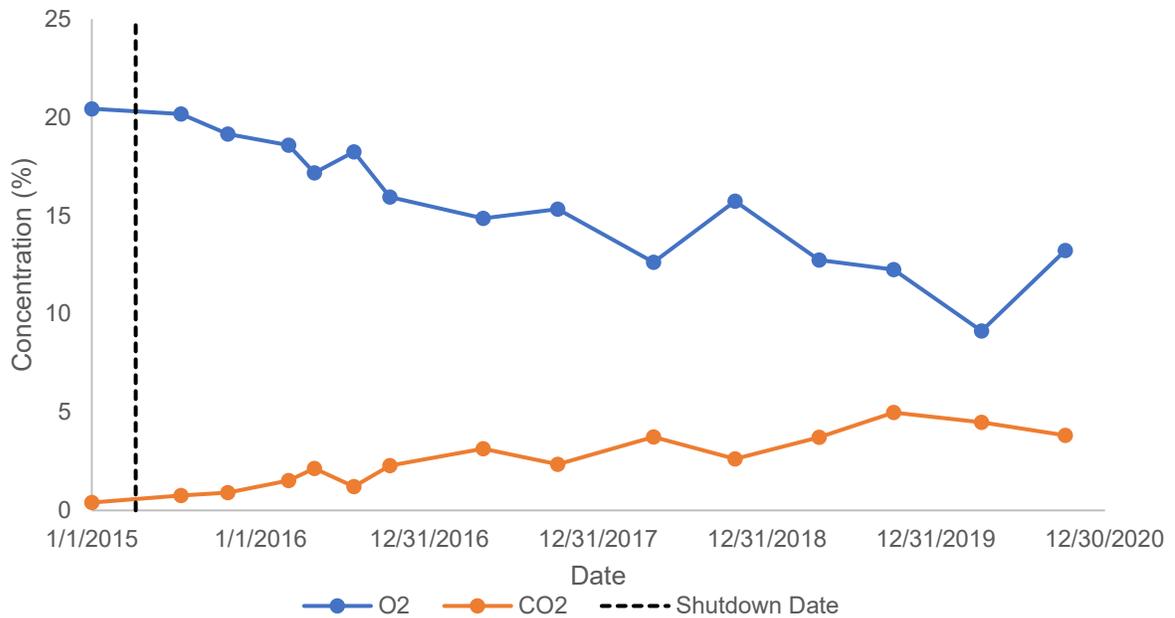
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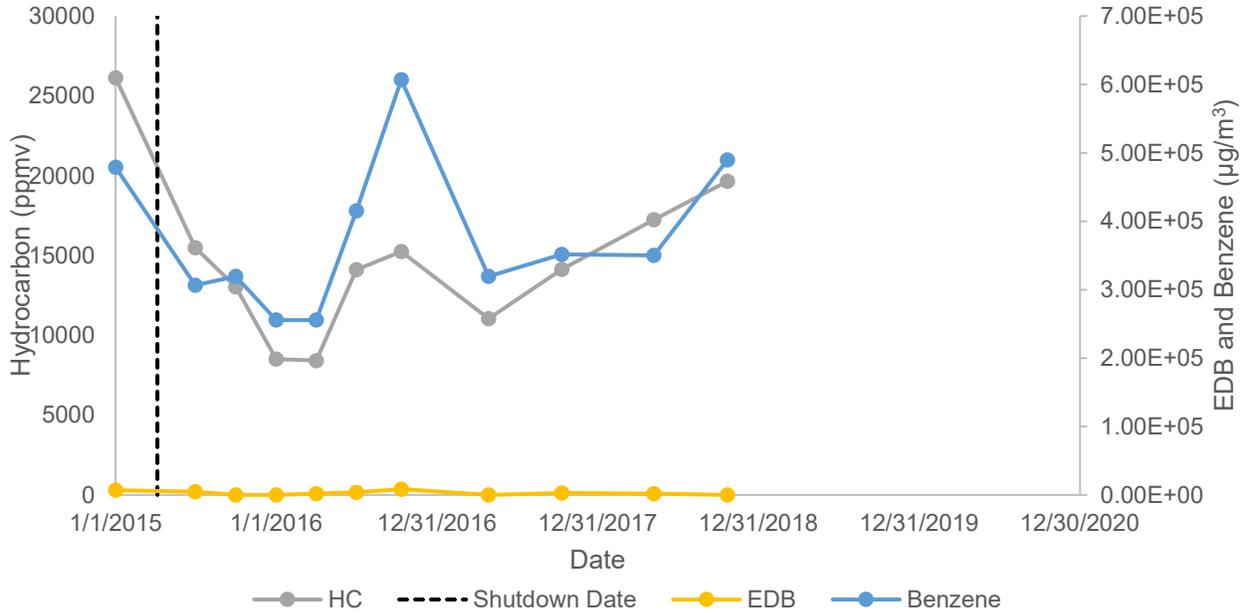
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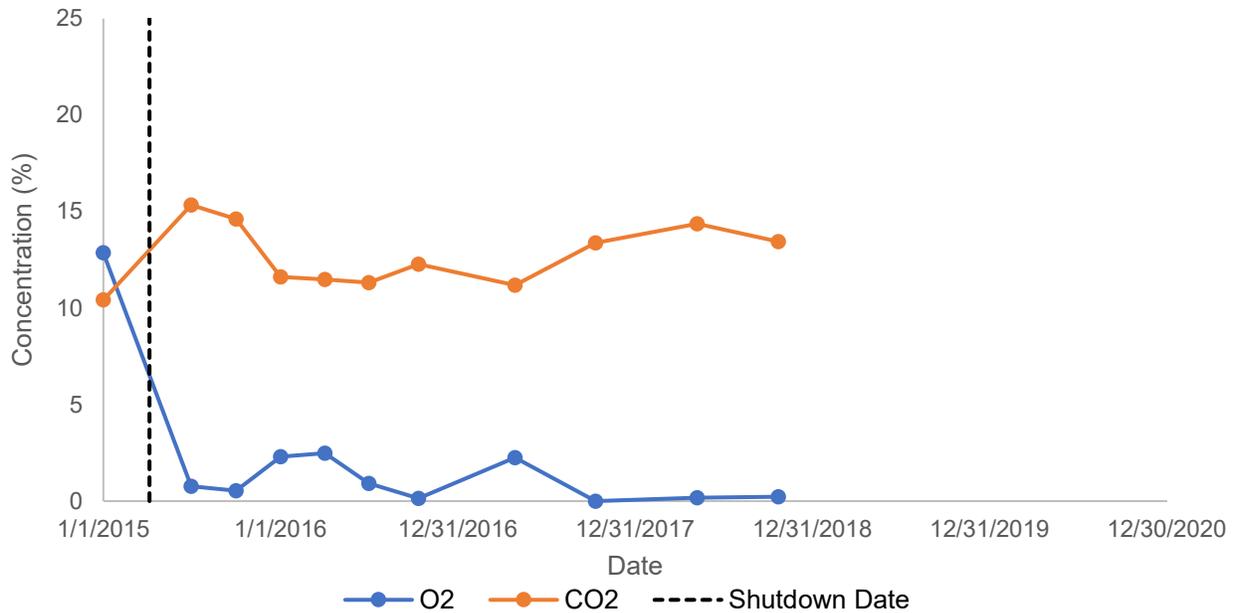
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**Oxygen and Carbon Dioxide Concentrations Over Time**



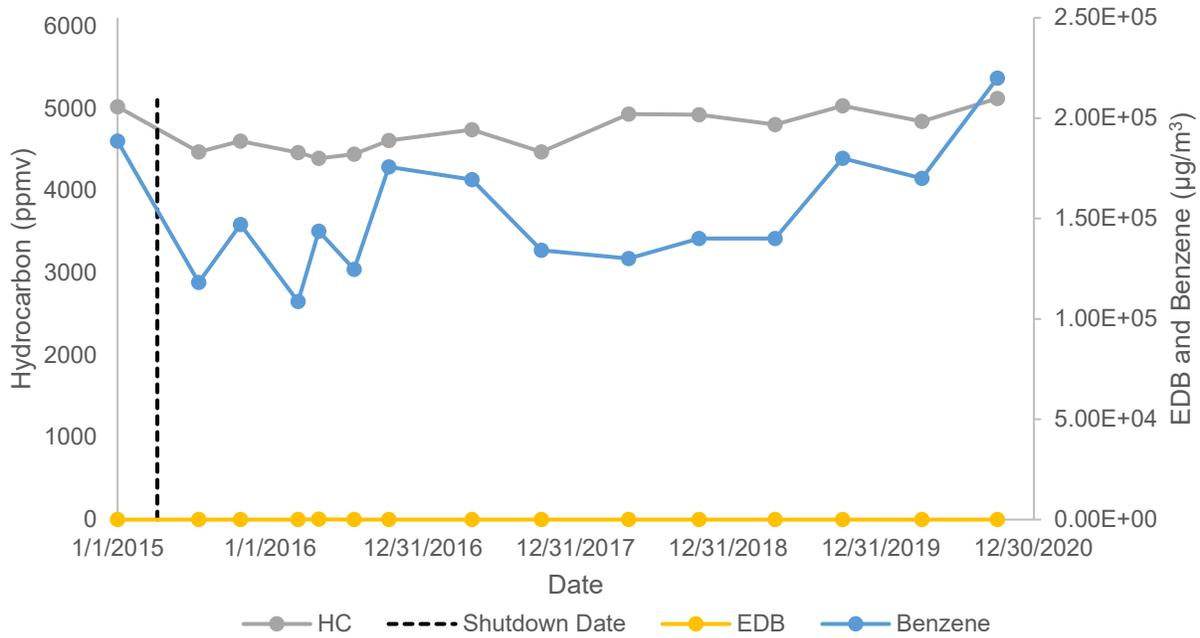
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



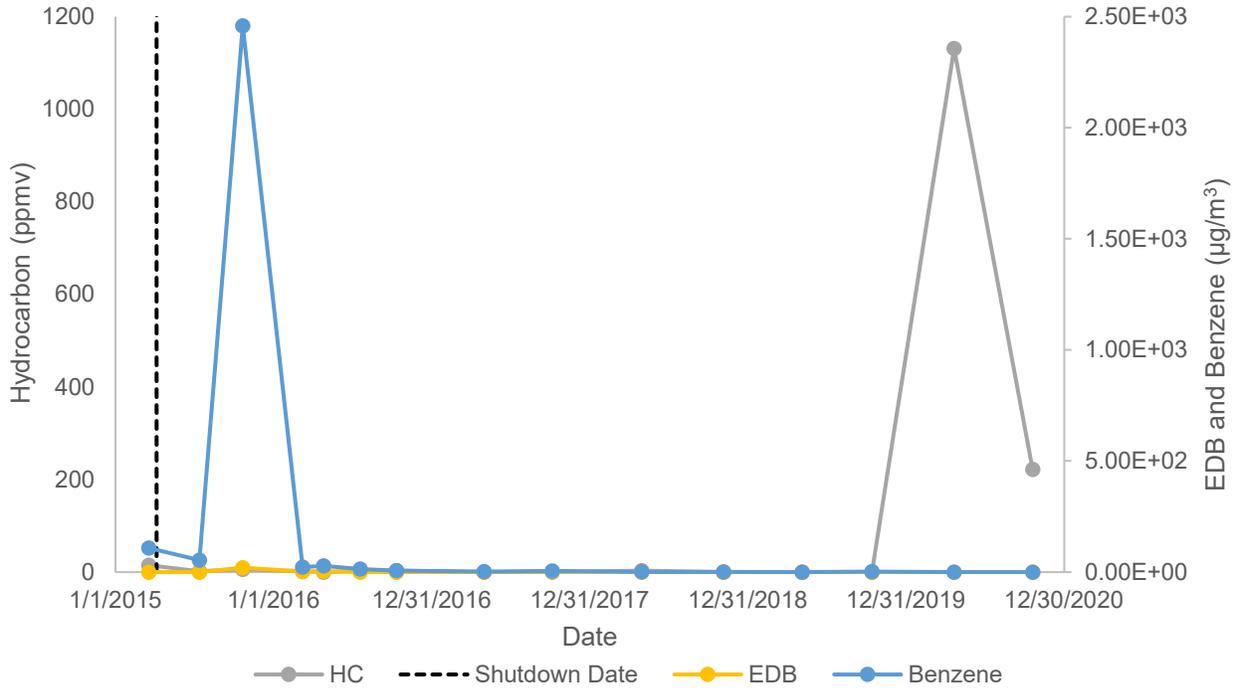
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**Oxygen and Carbon Dioxide Concentrations Over Time**



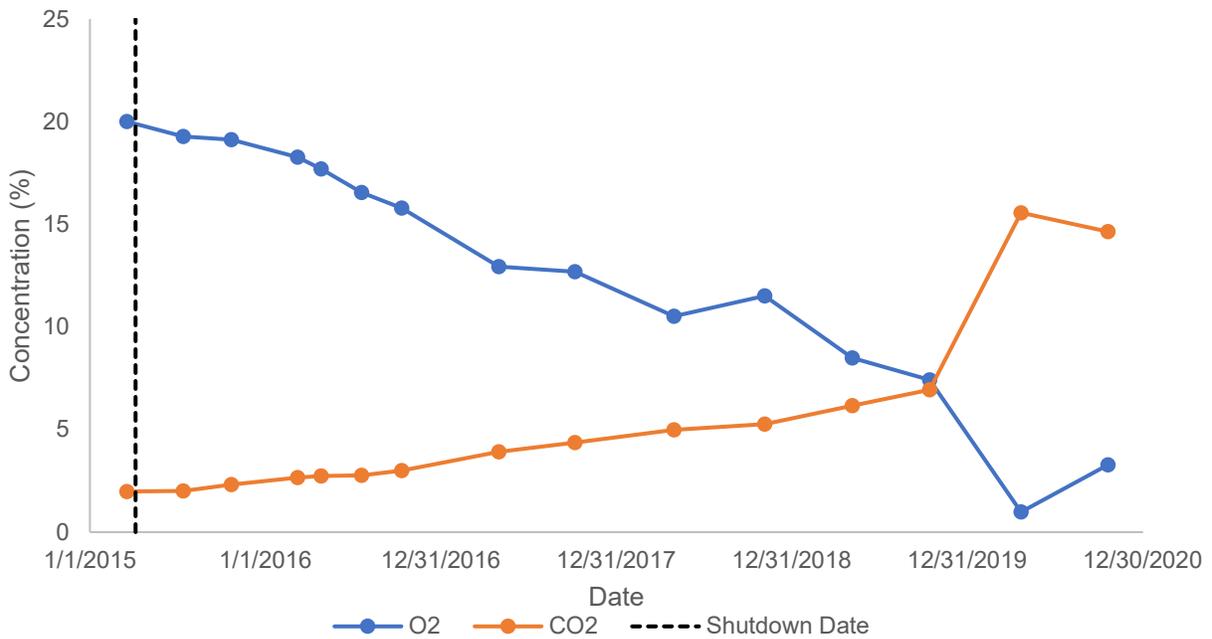
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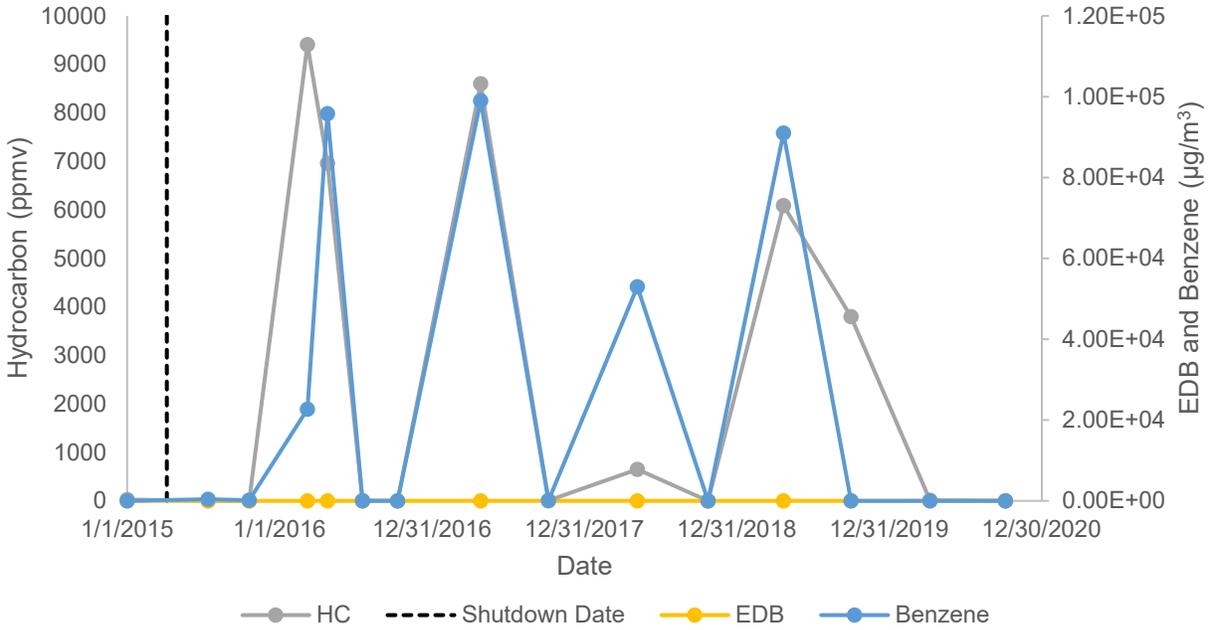
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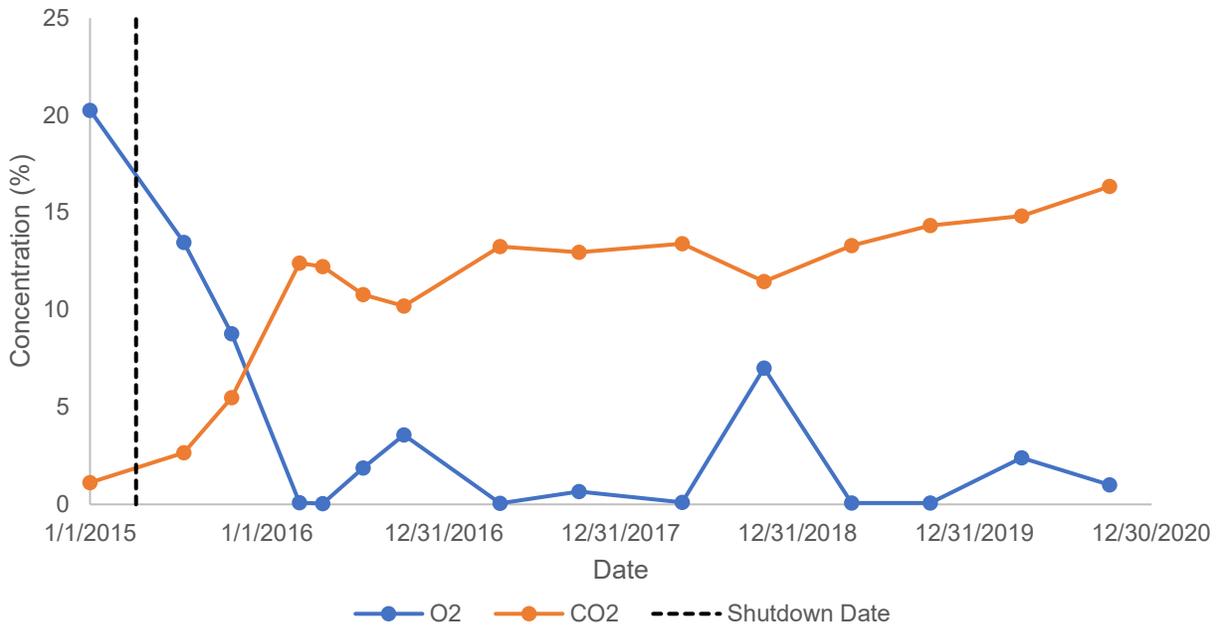
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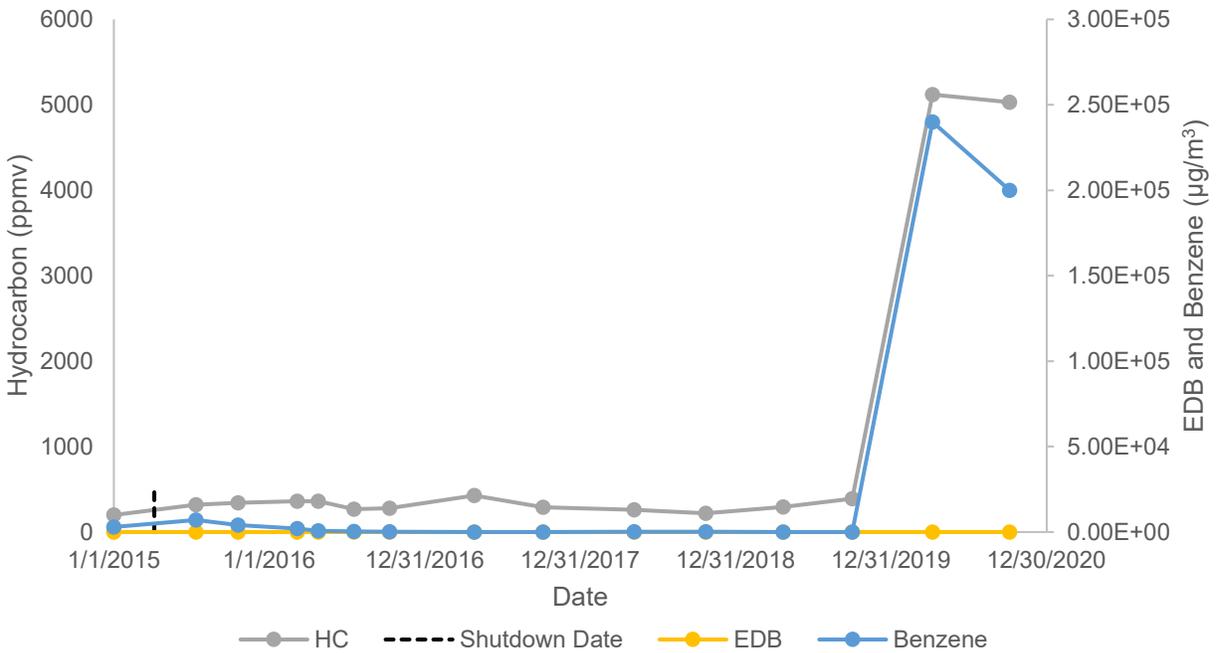
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



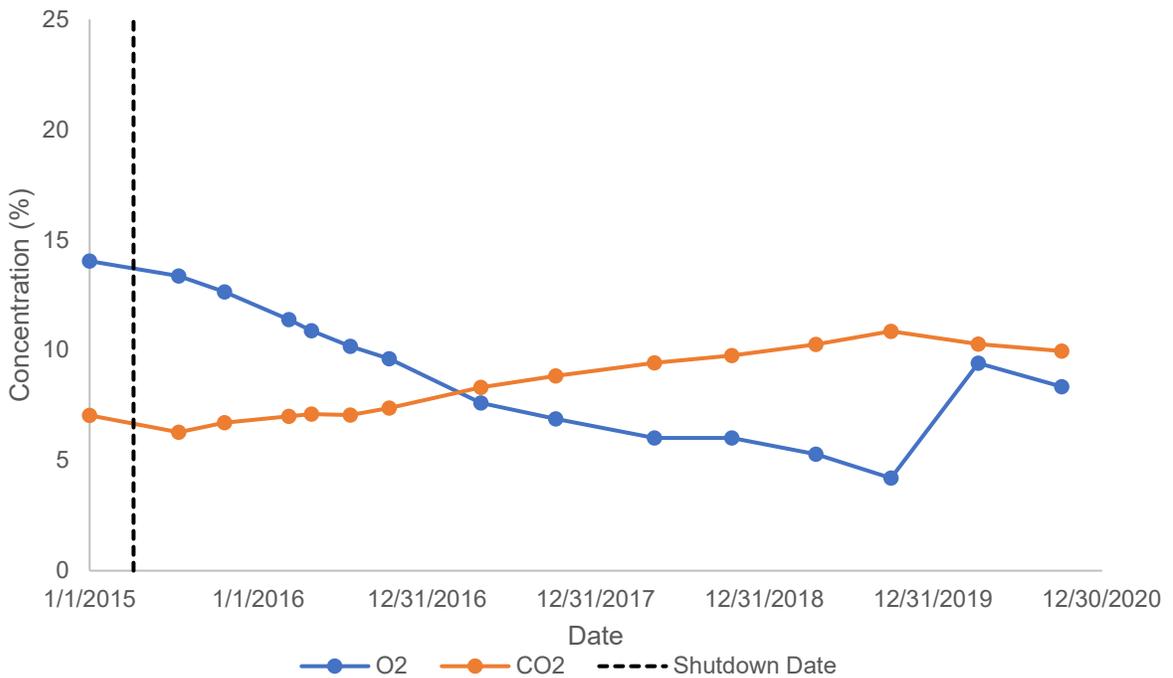
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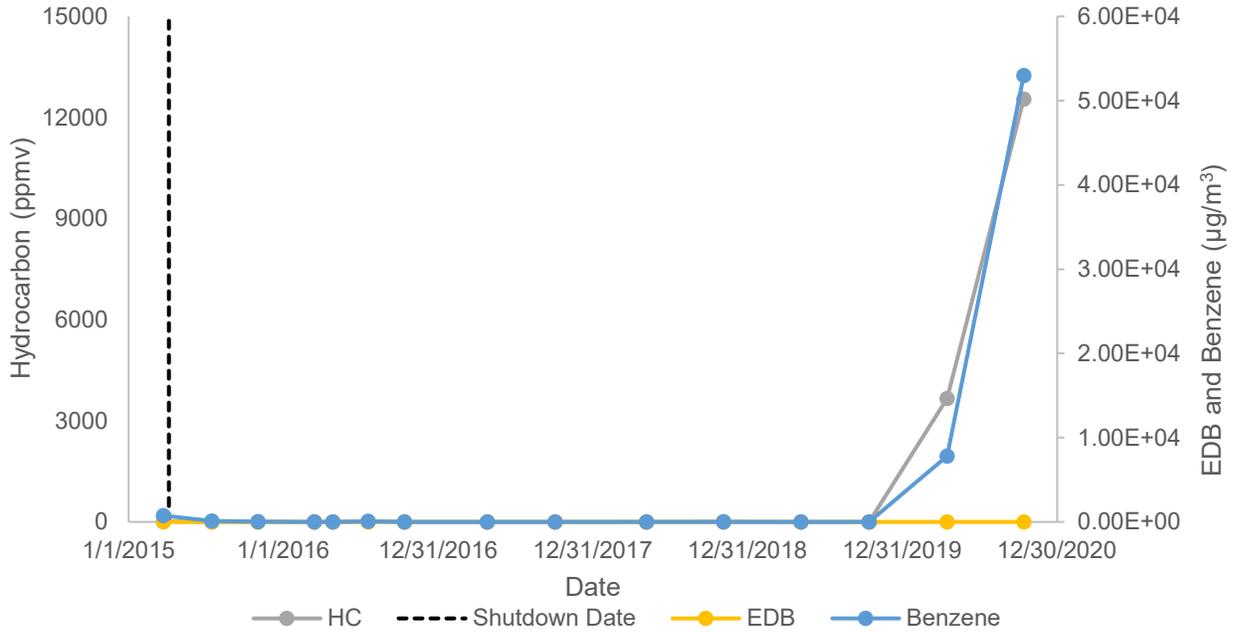
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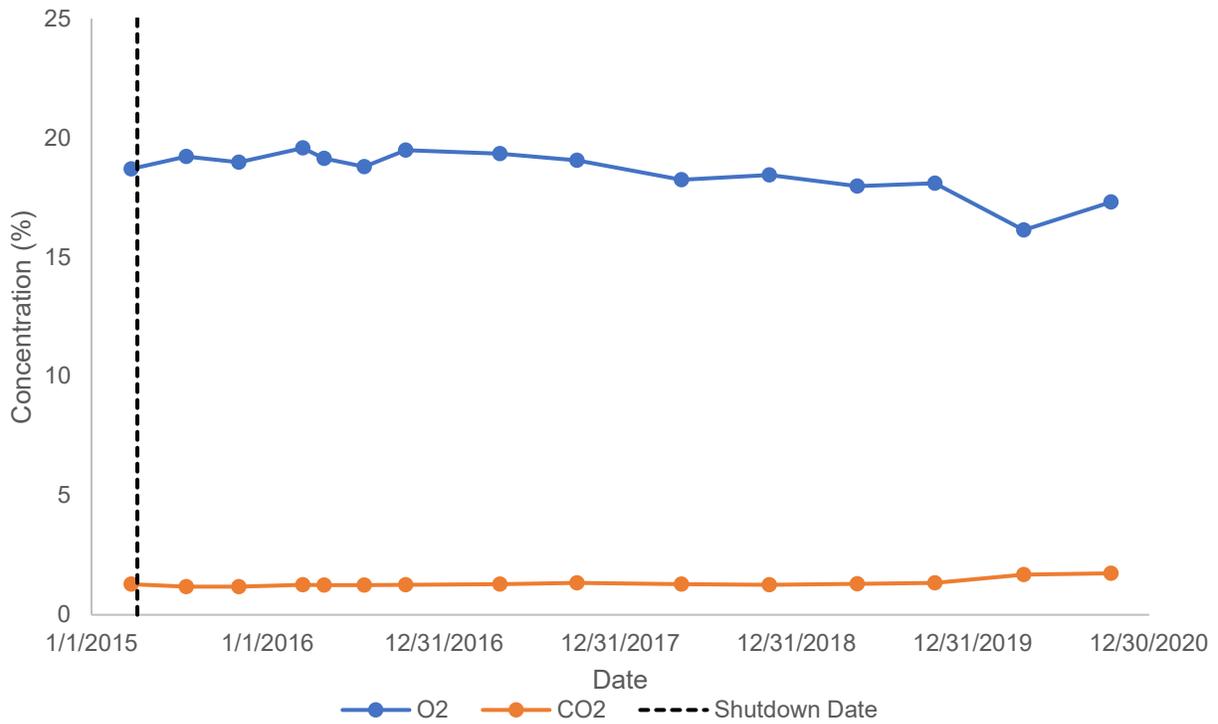
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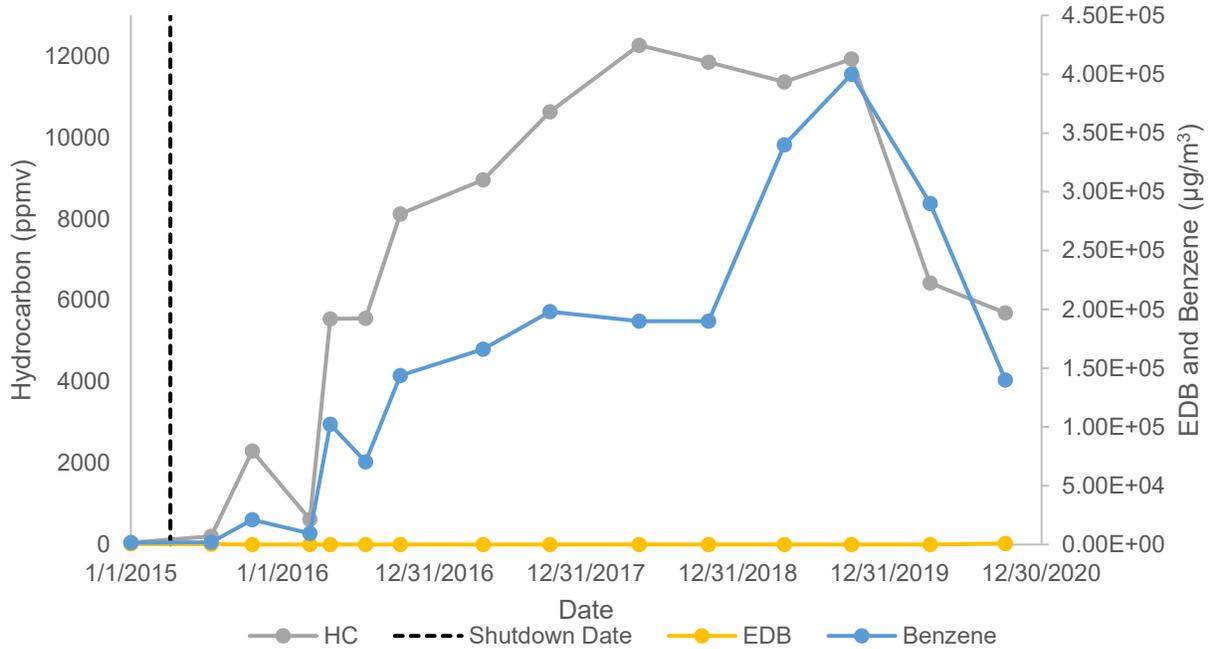
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



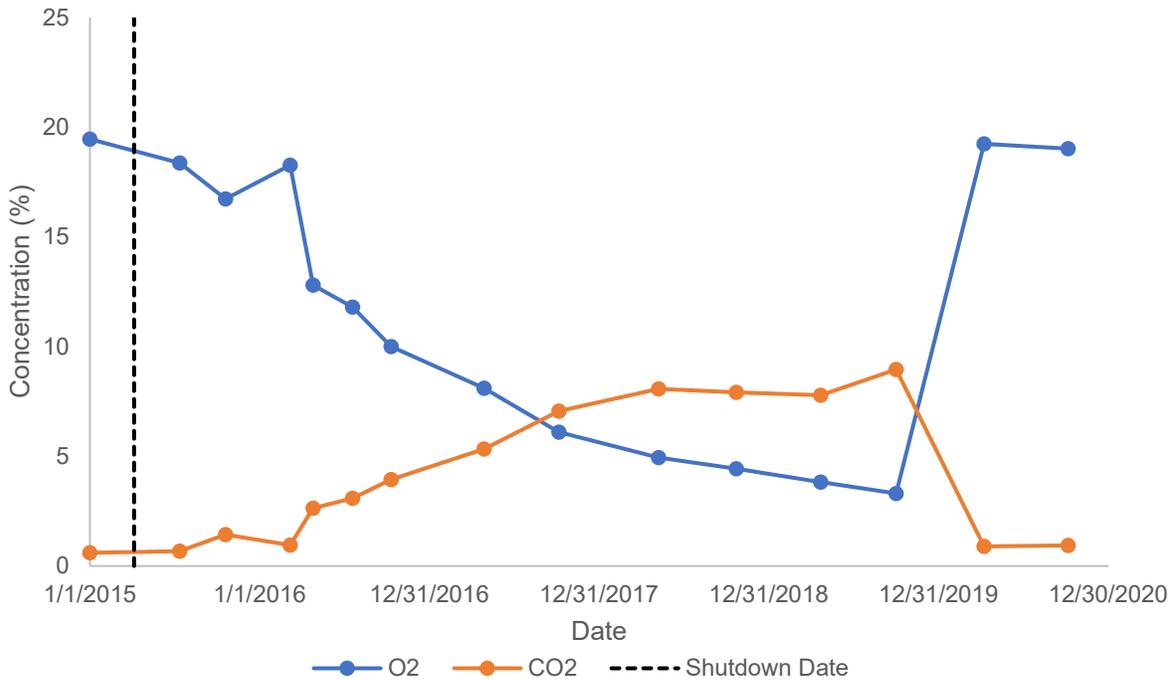
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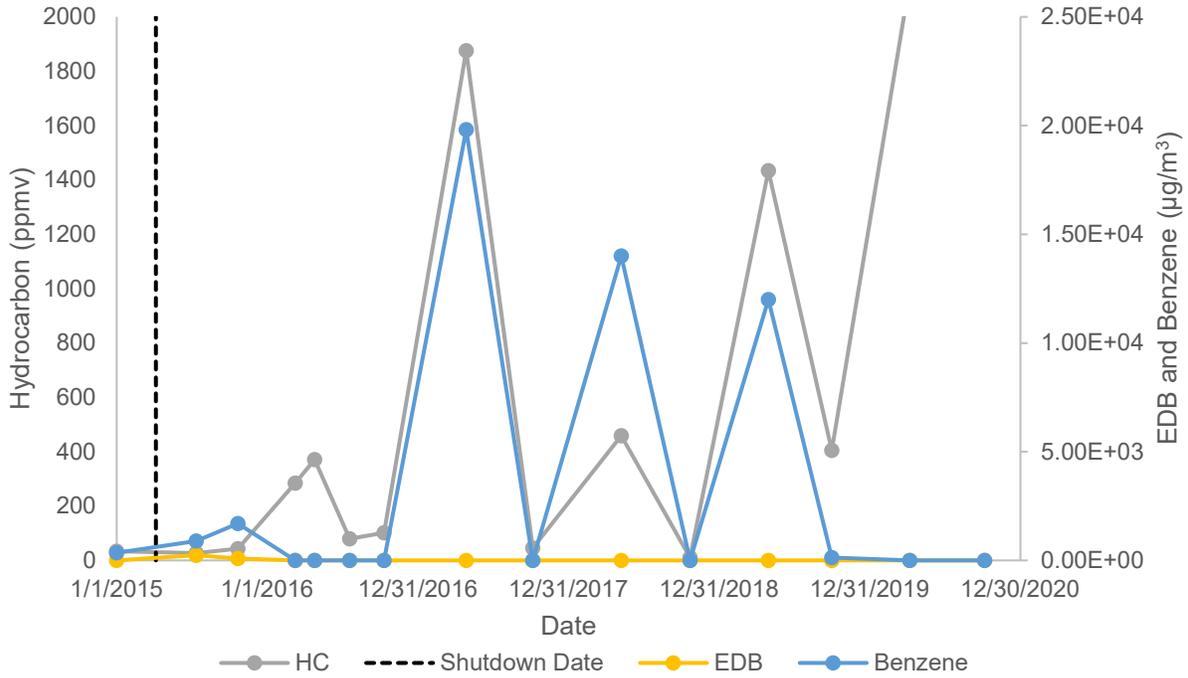
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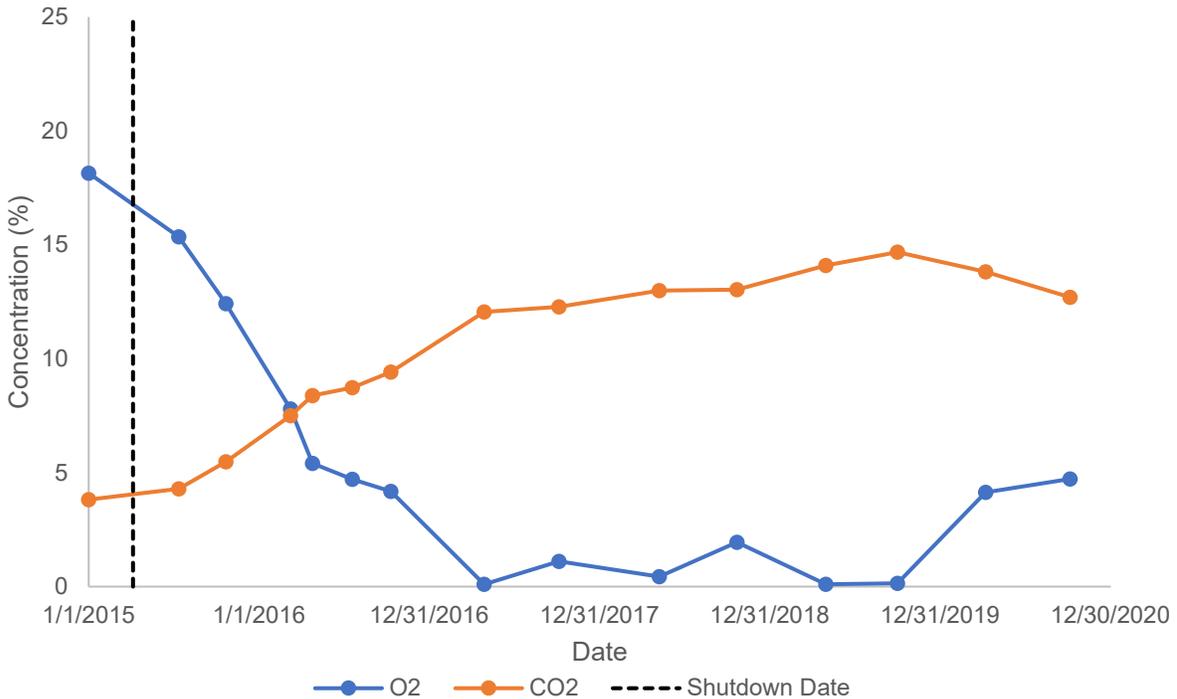
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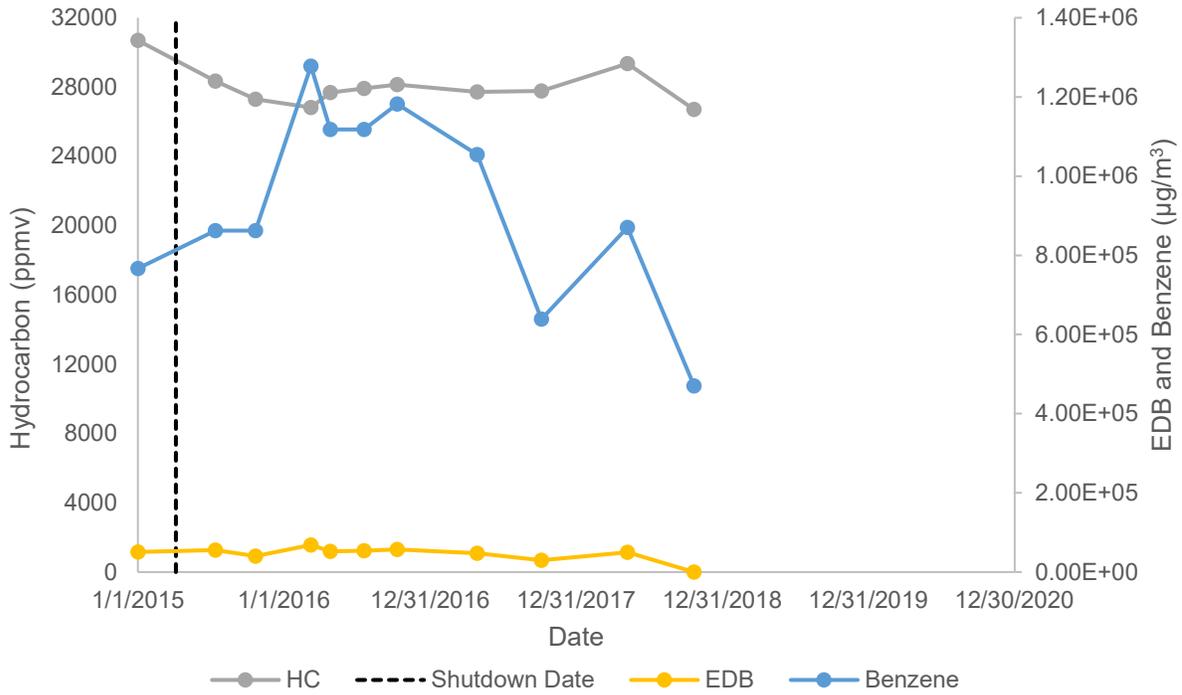
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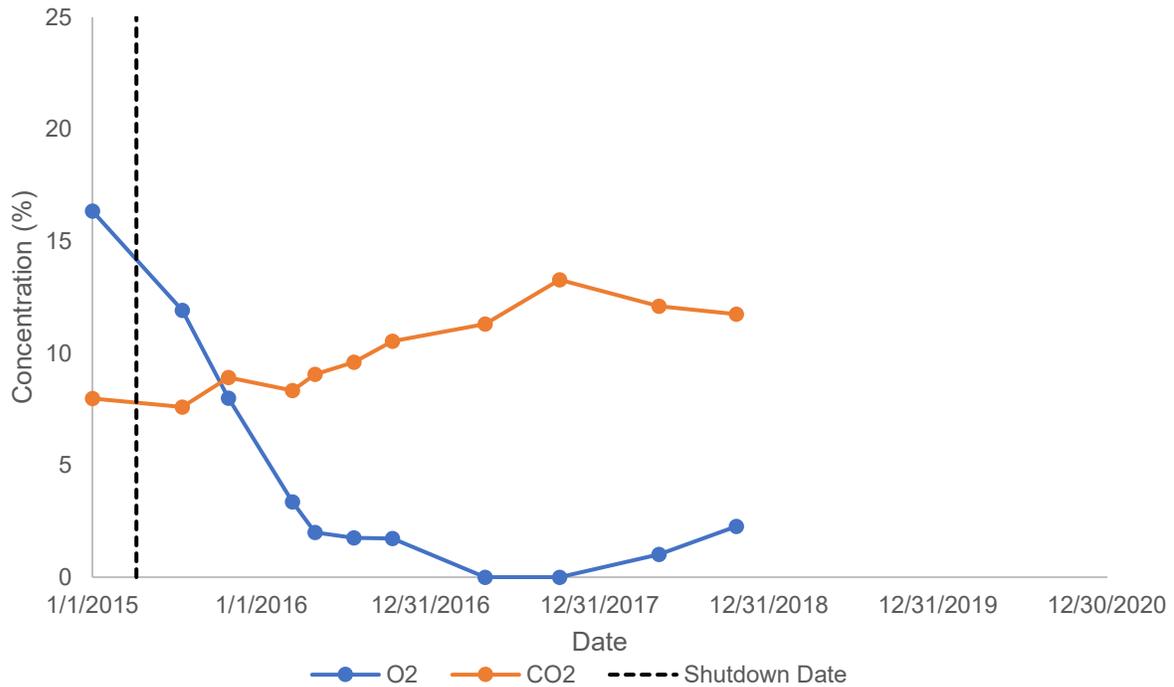
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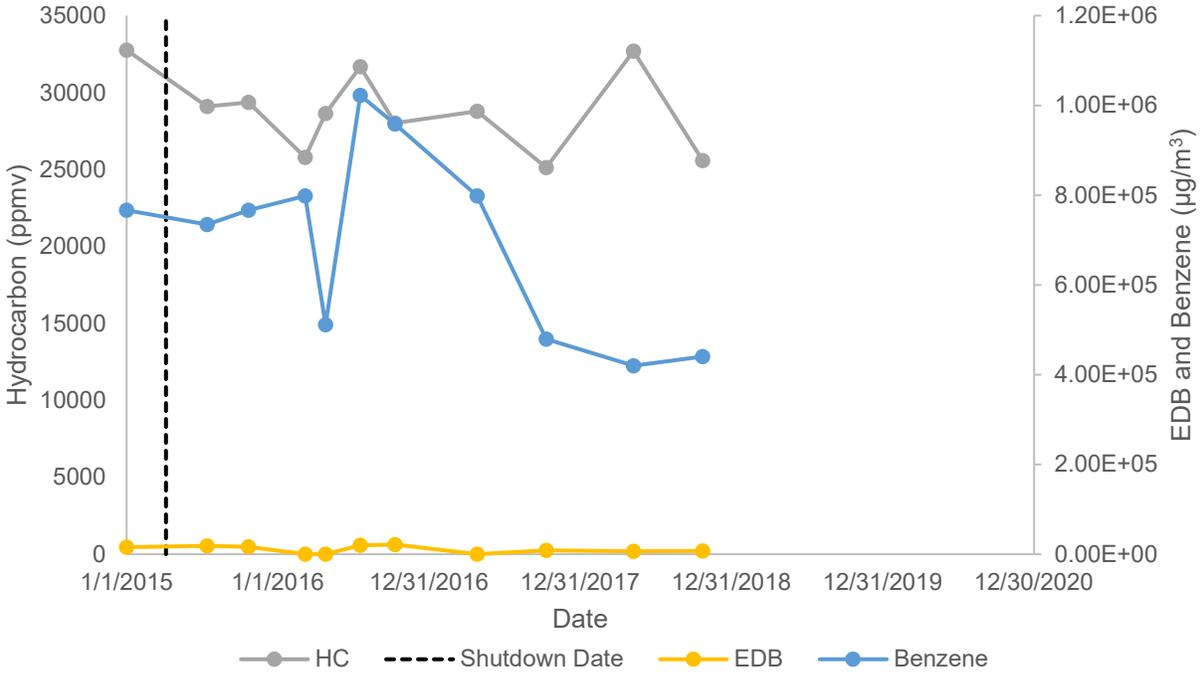
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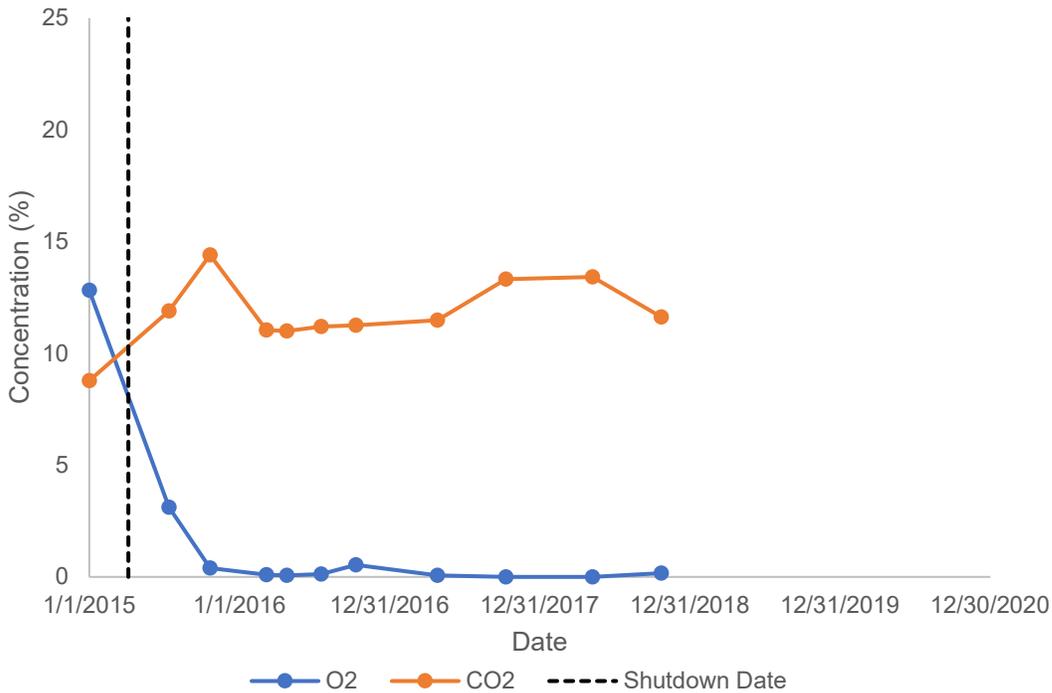
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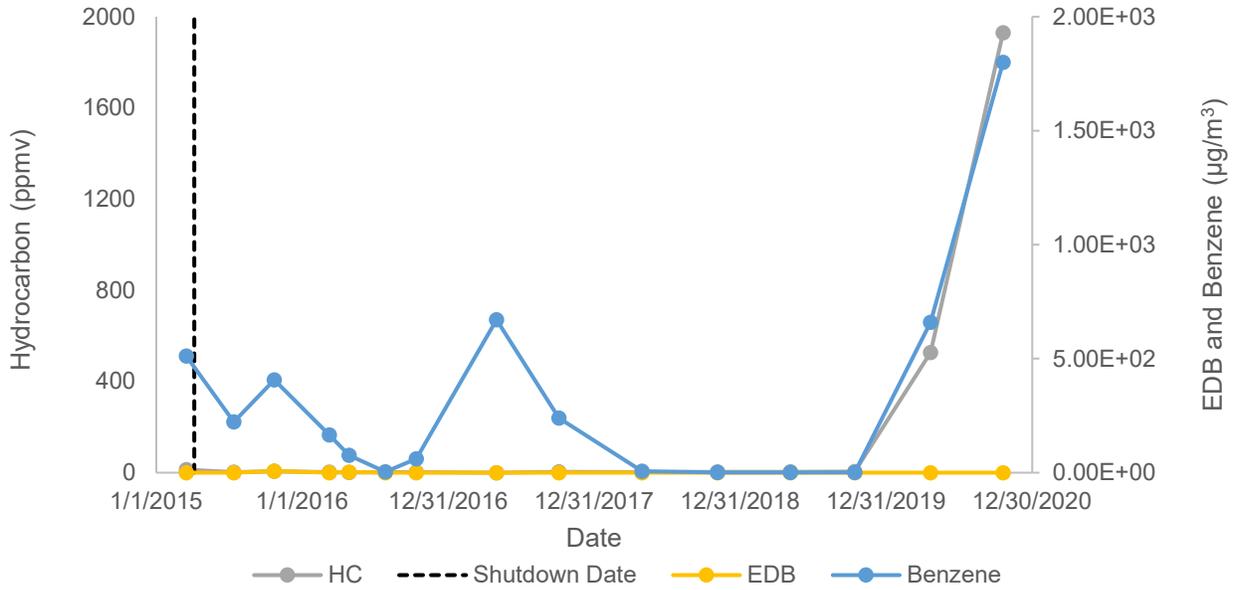
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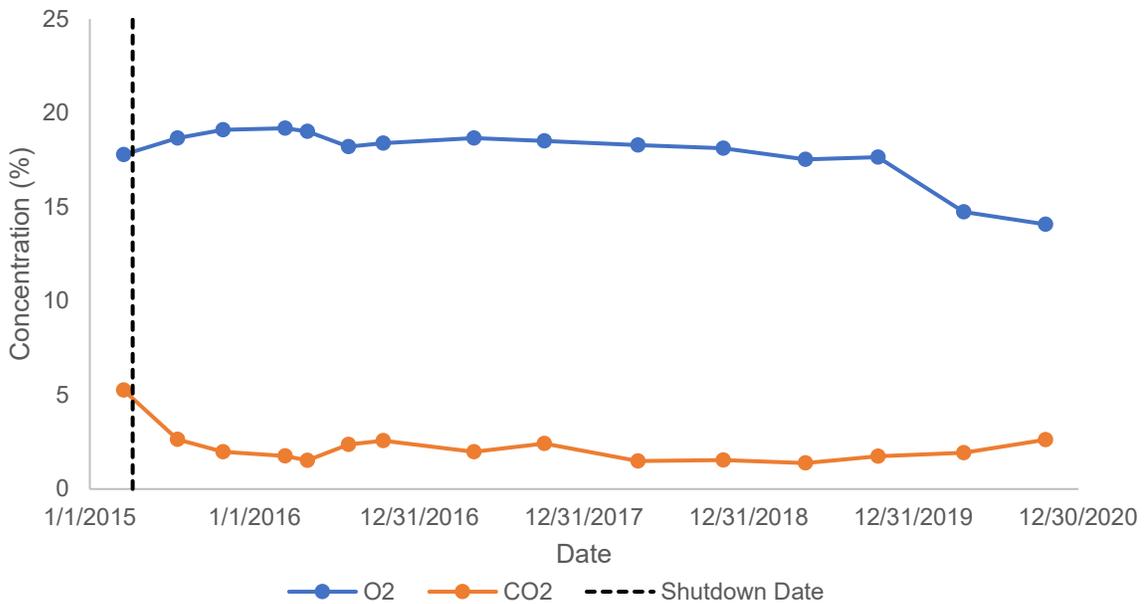
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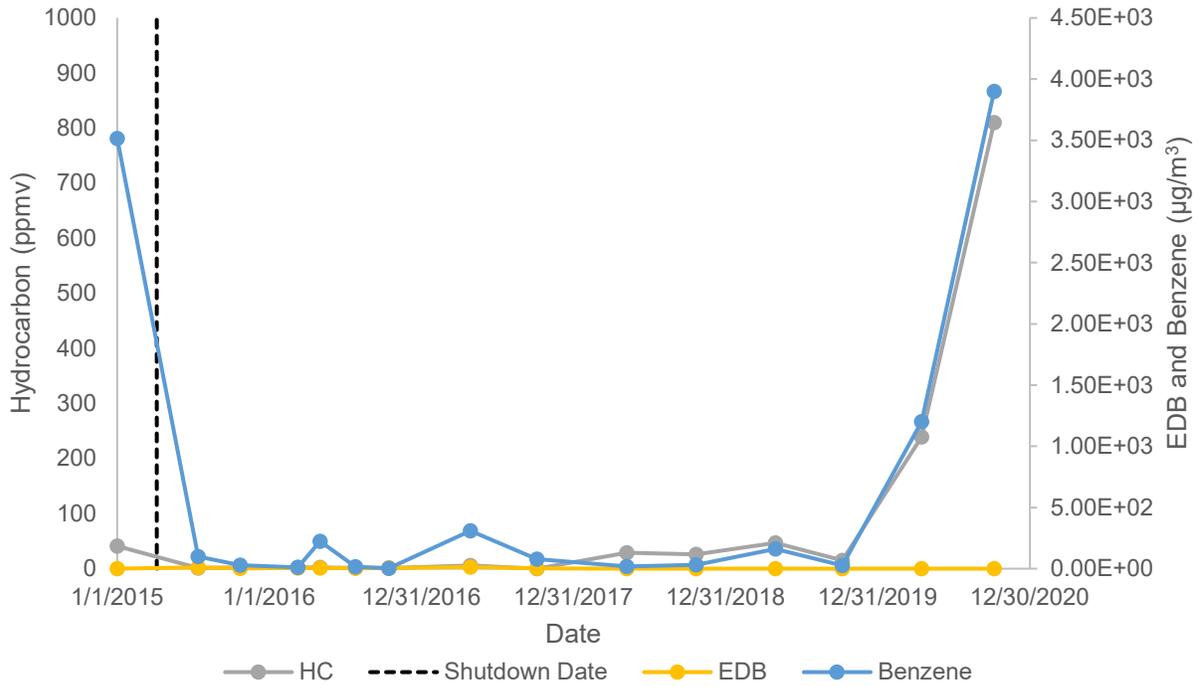
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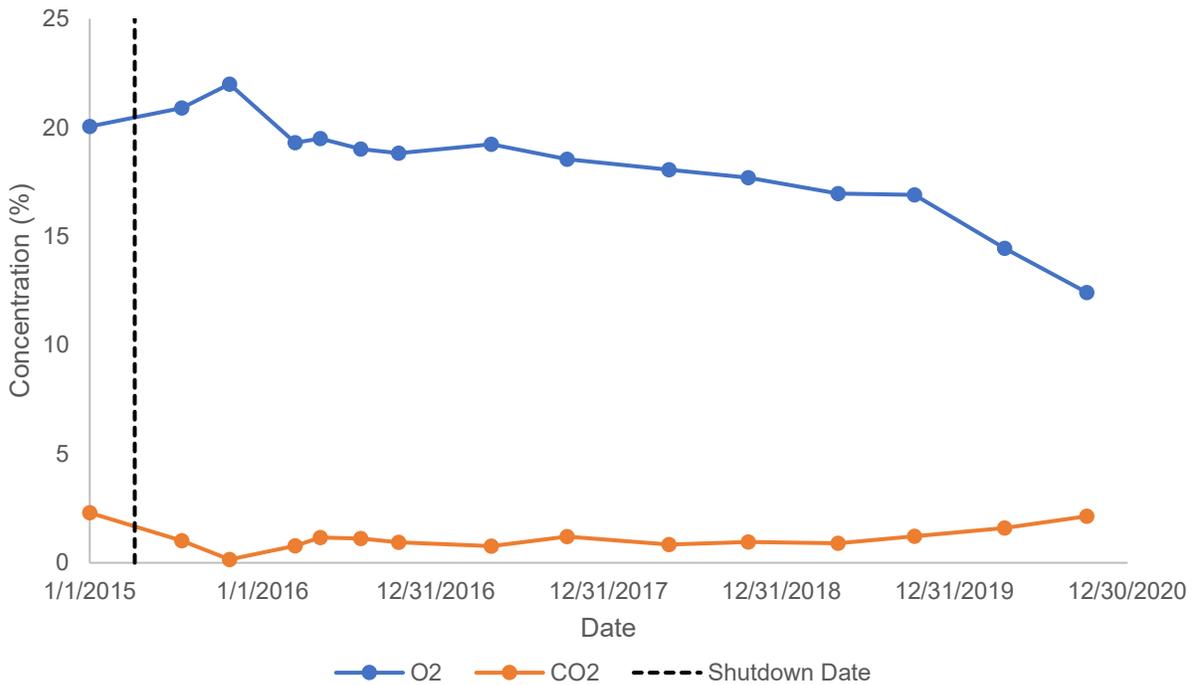
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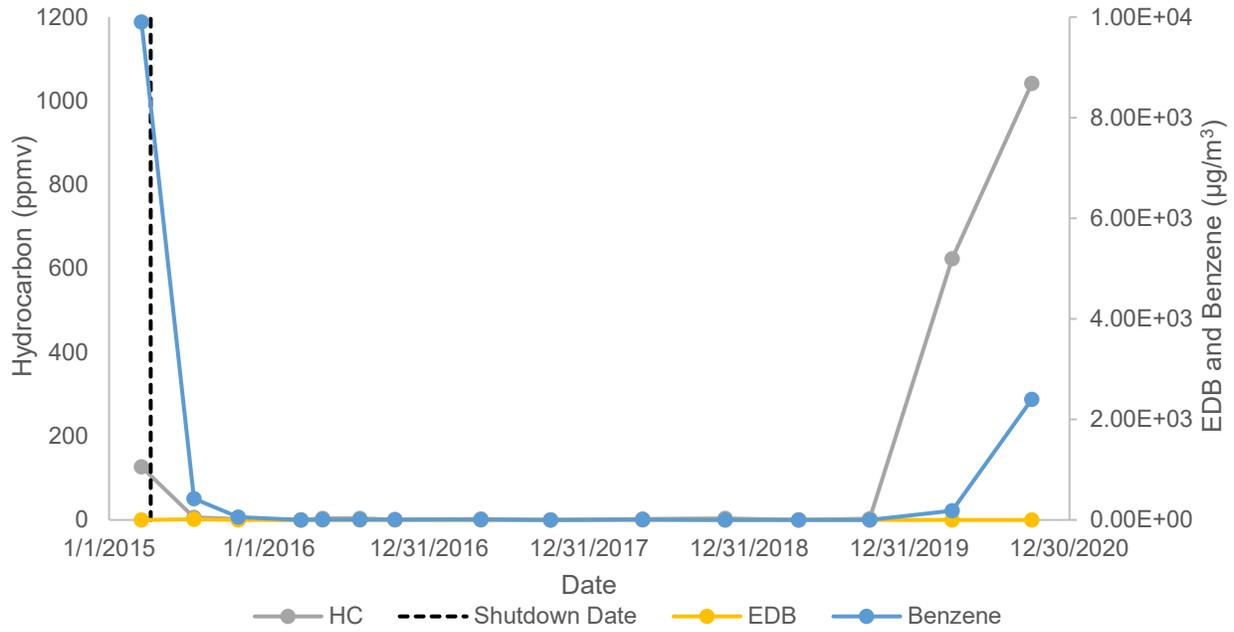
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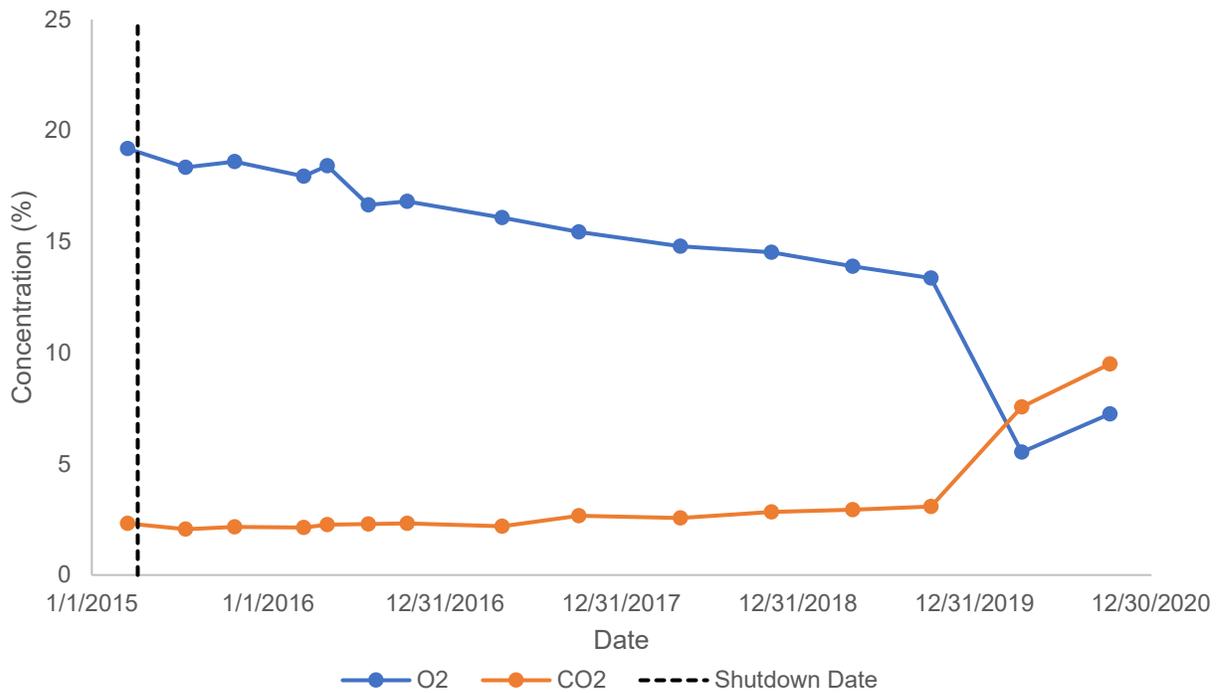
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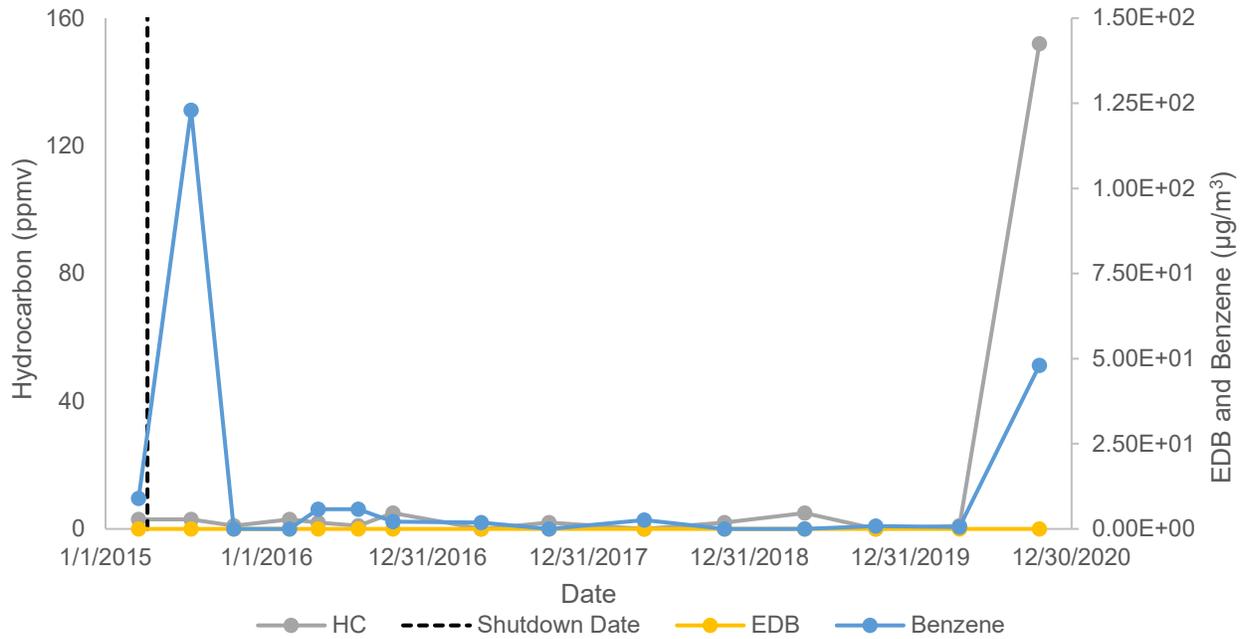
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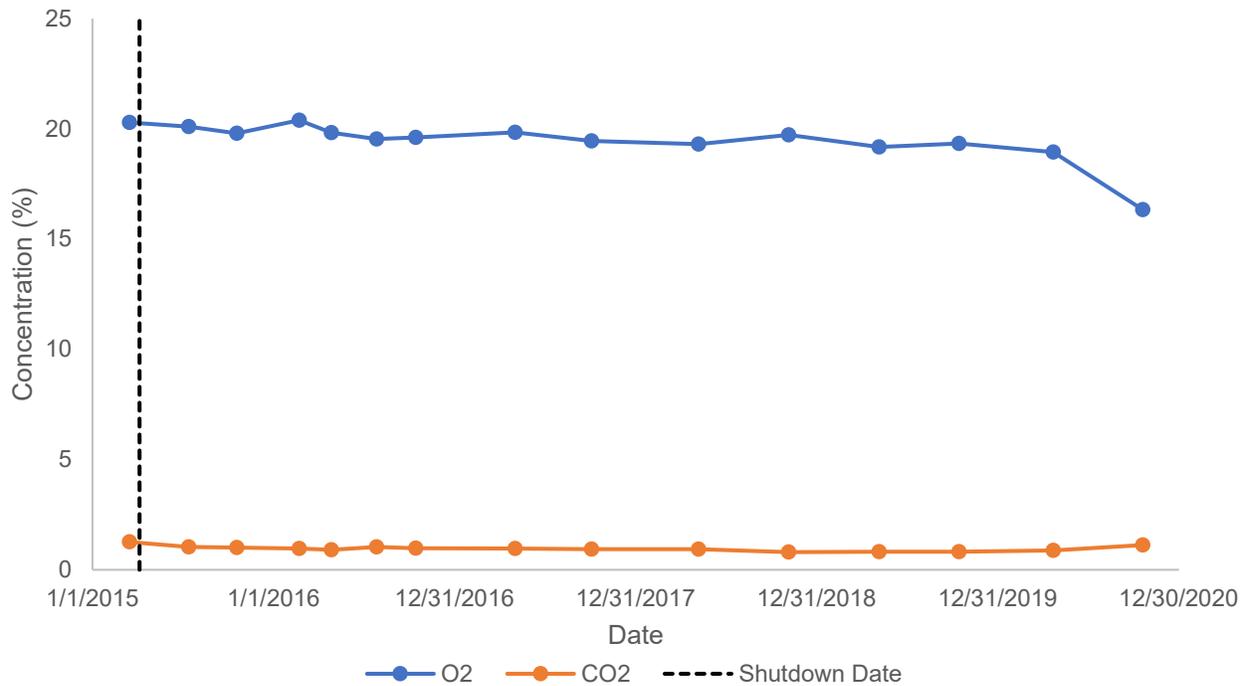
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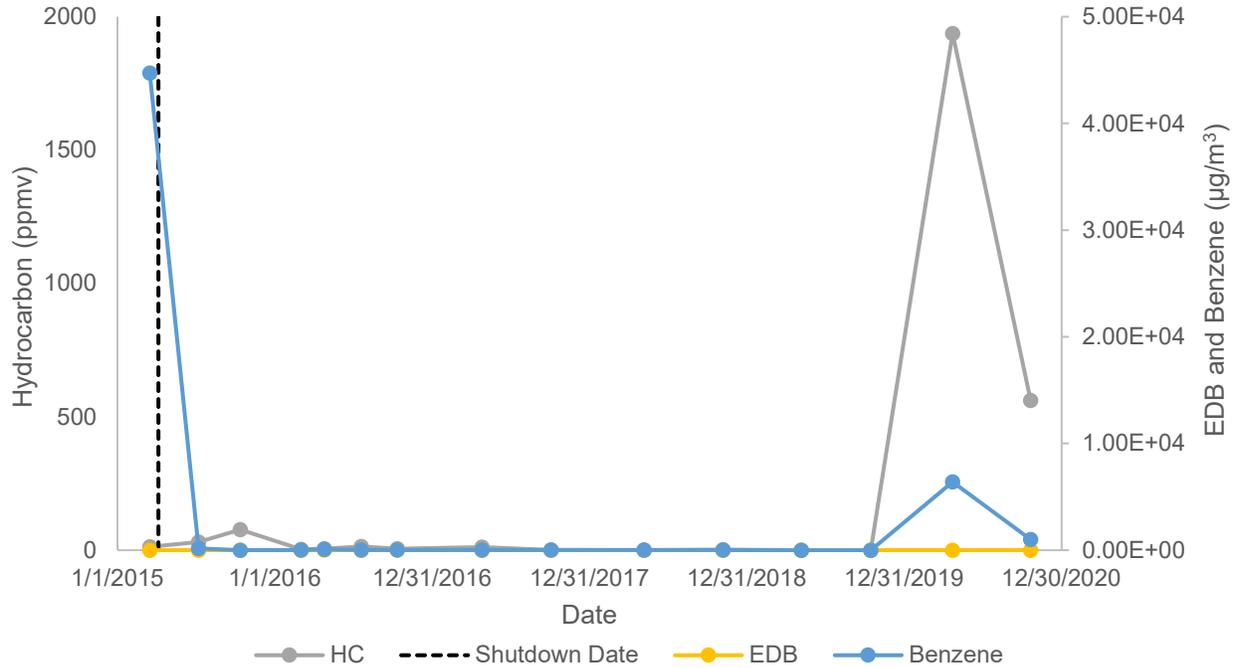
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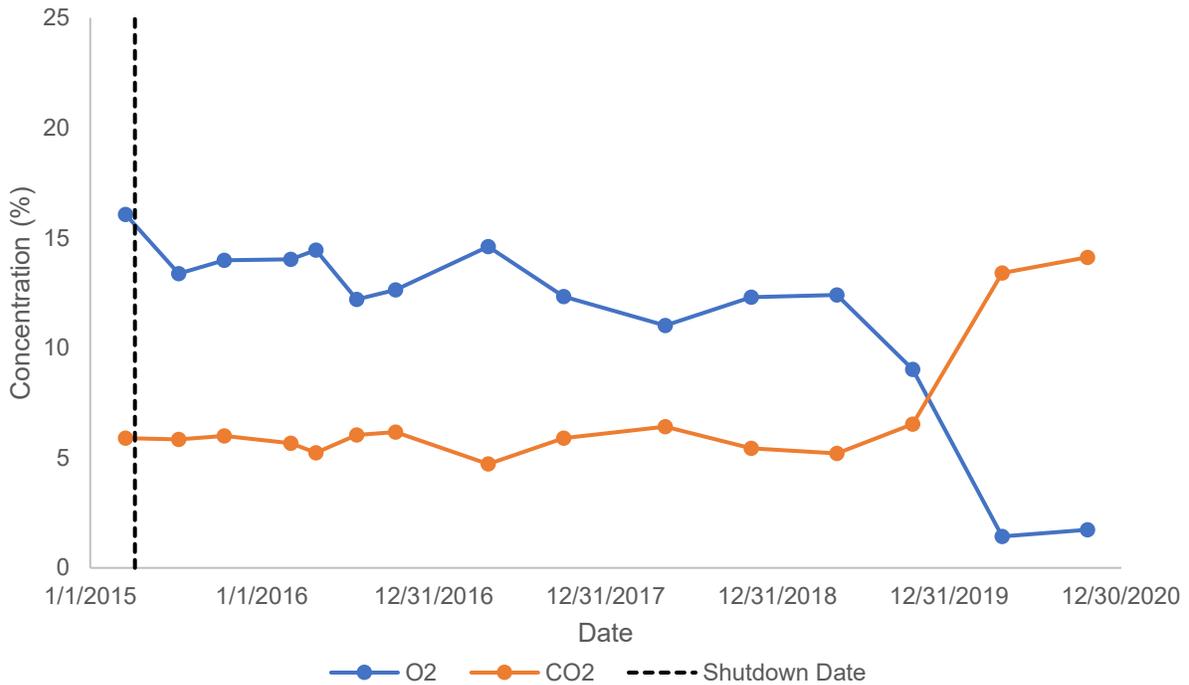
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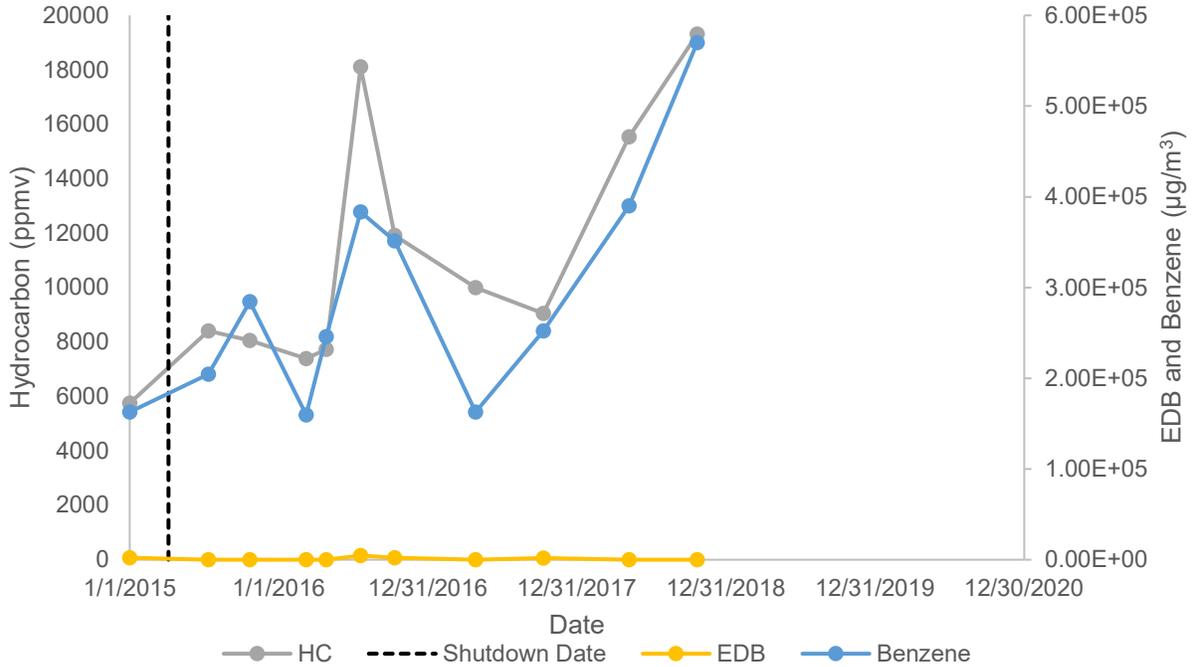
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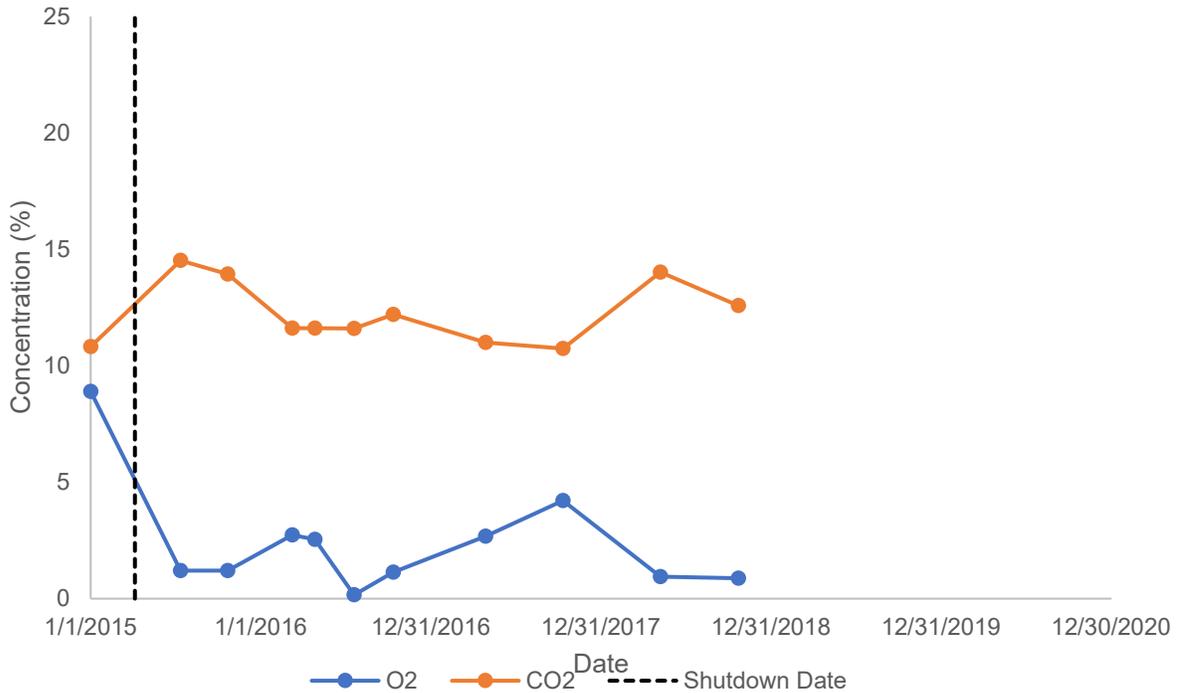
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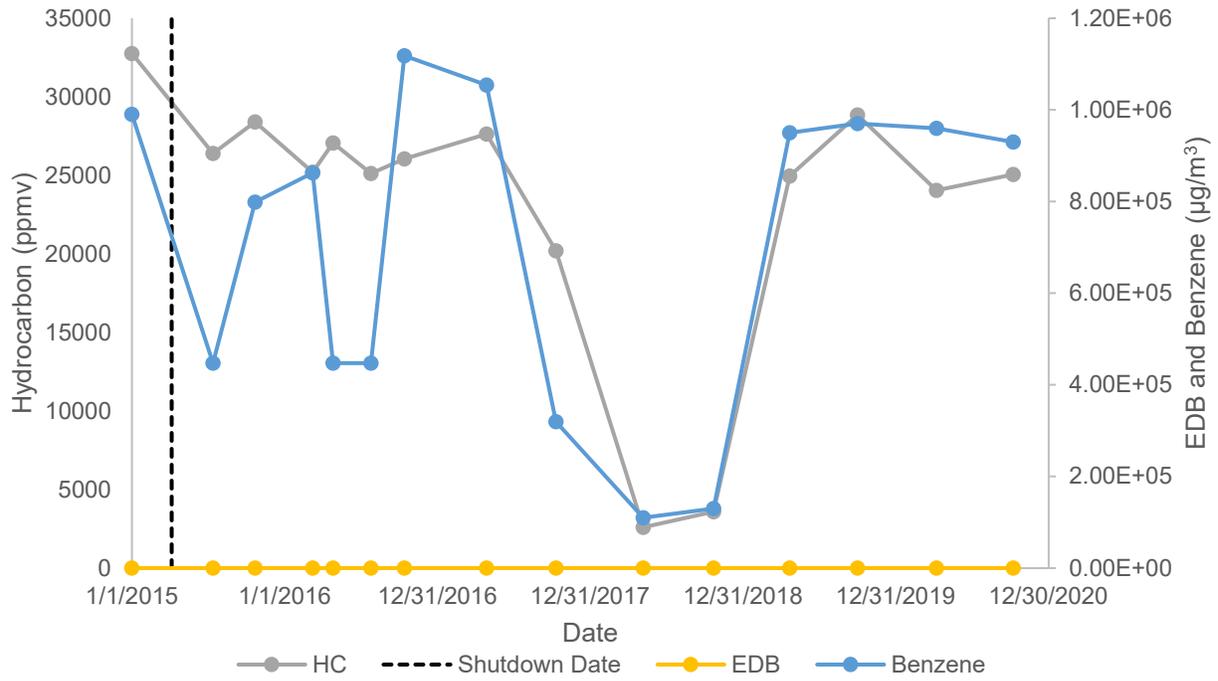
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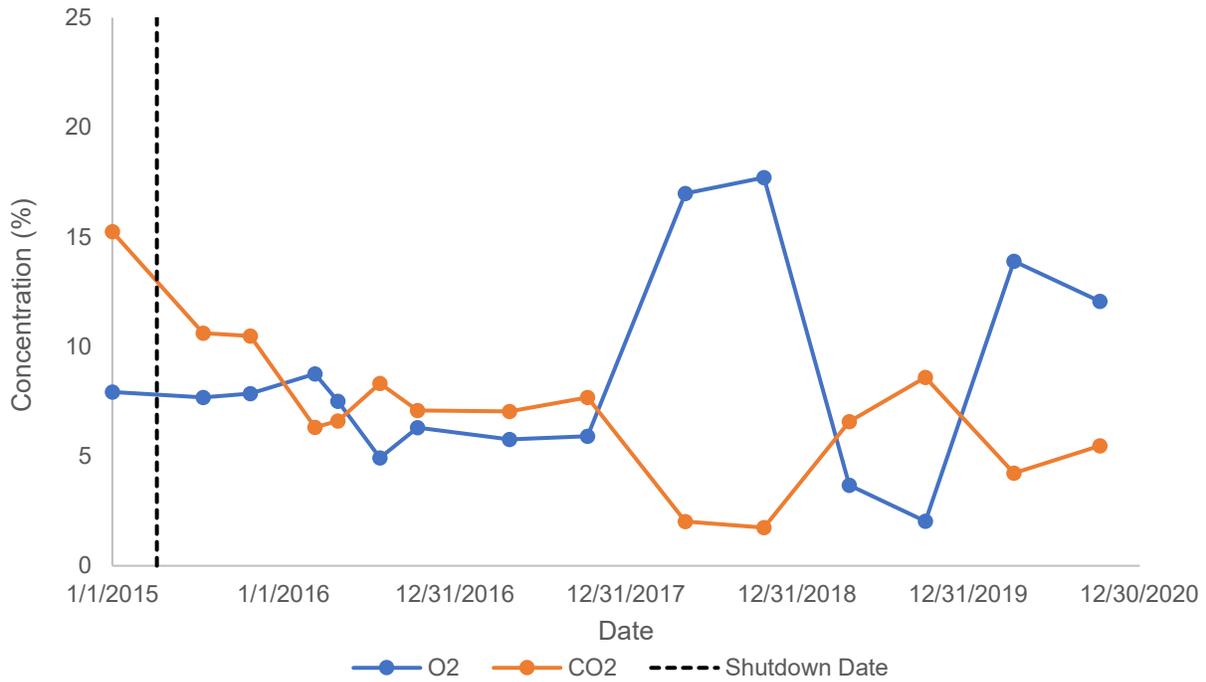
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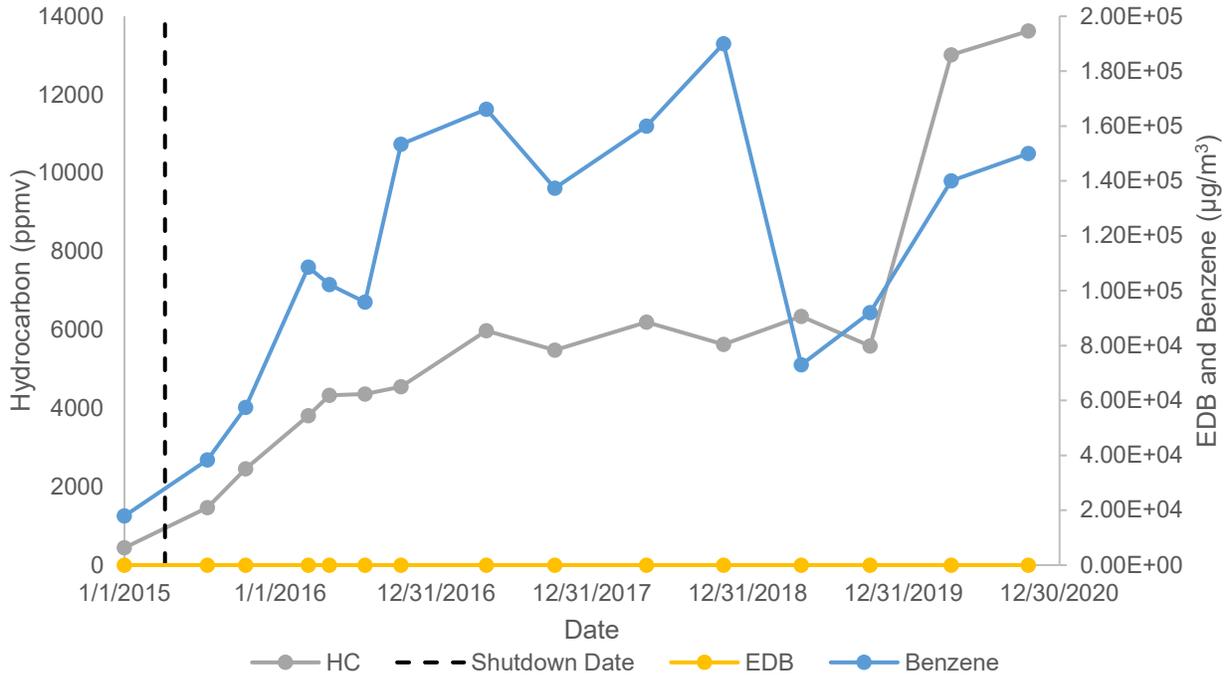
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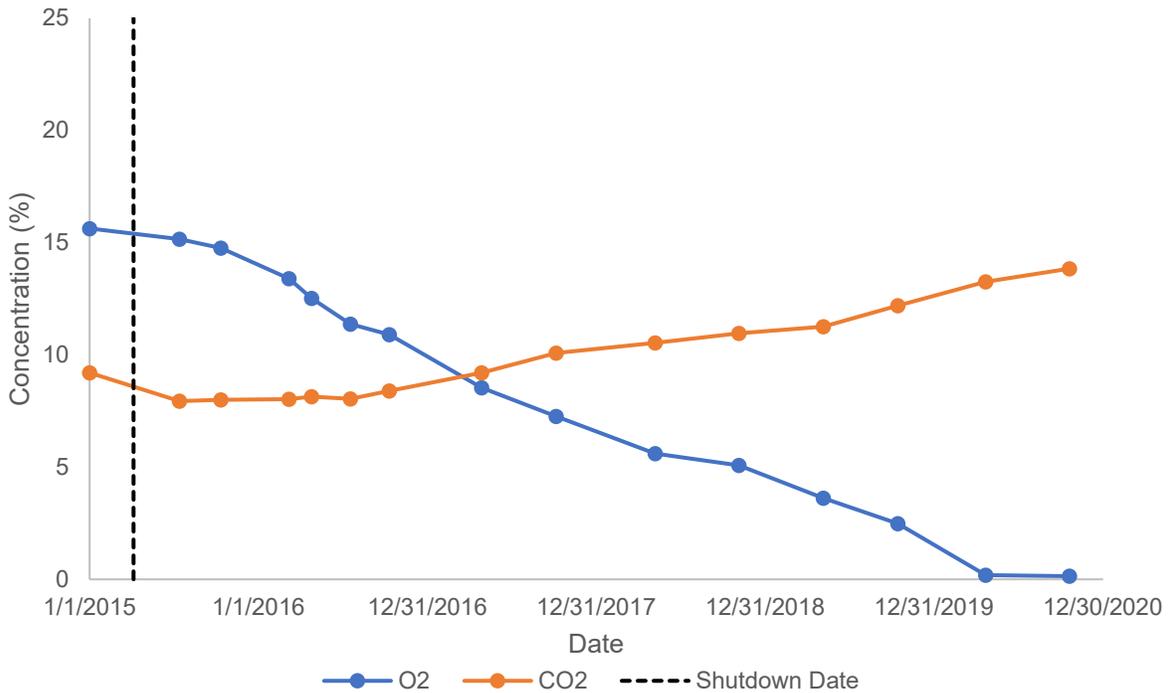
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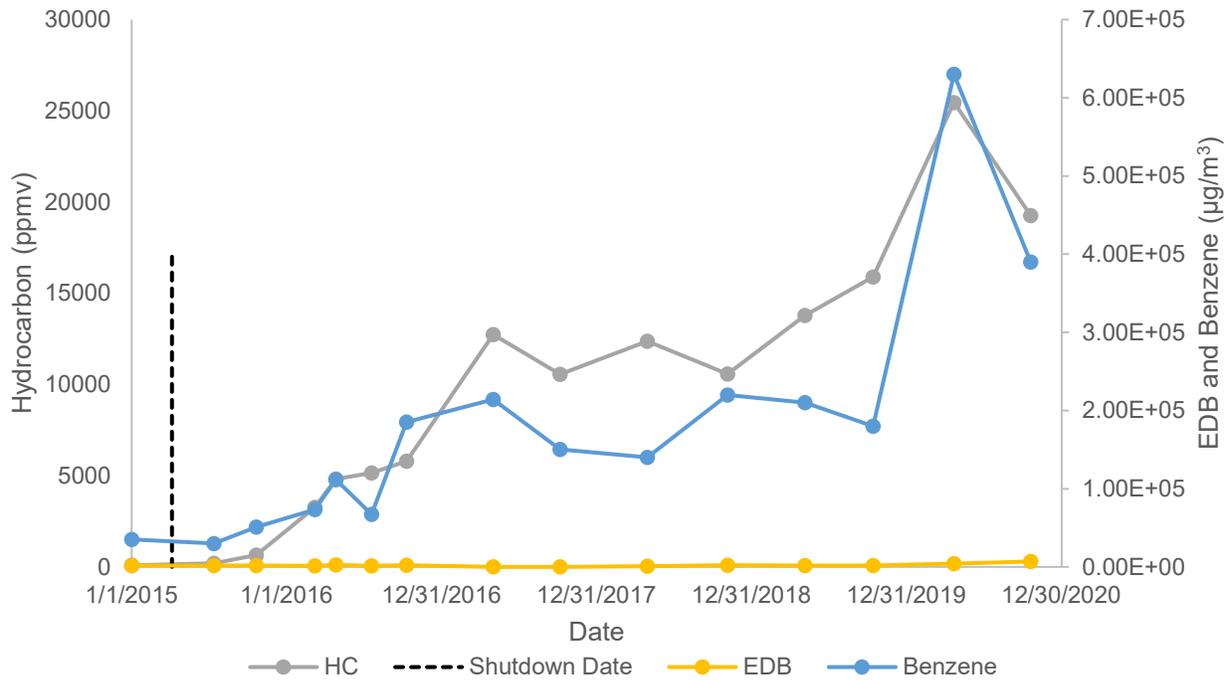
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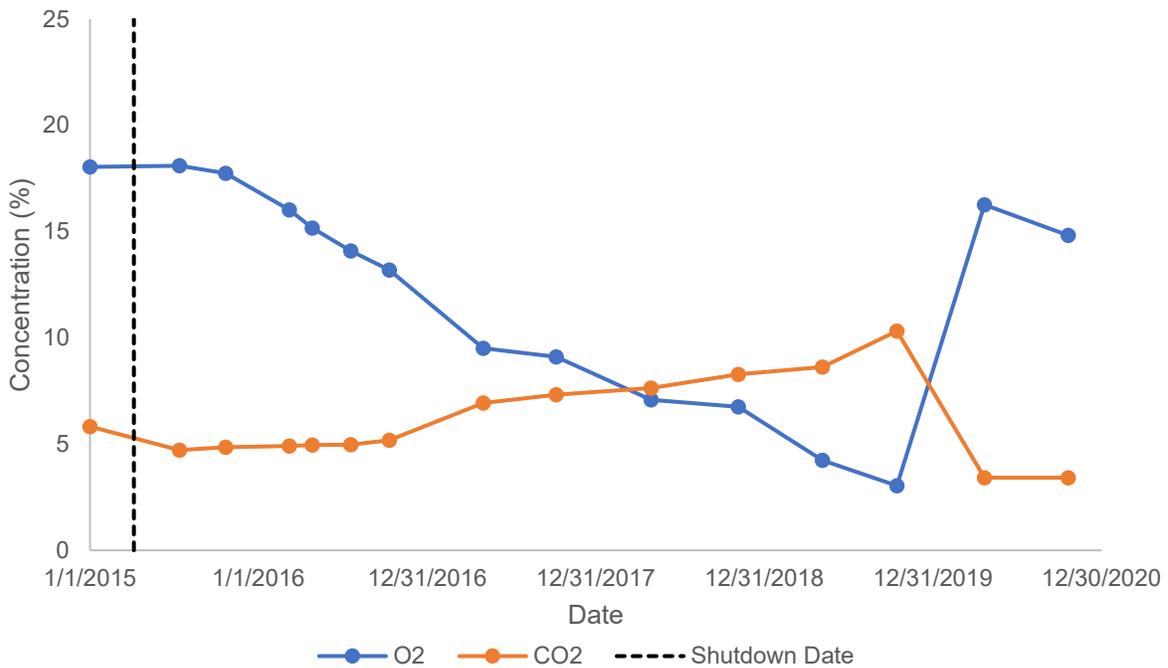
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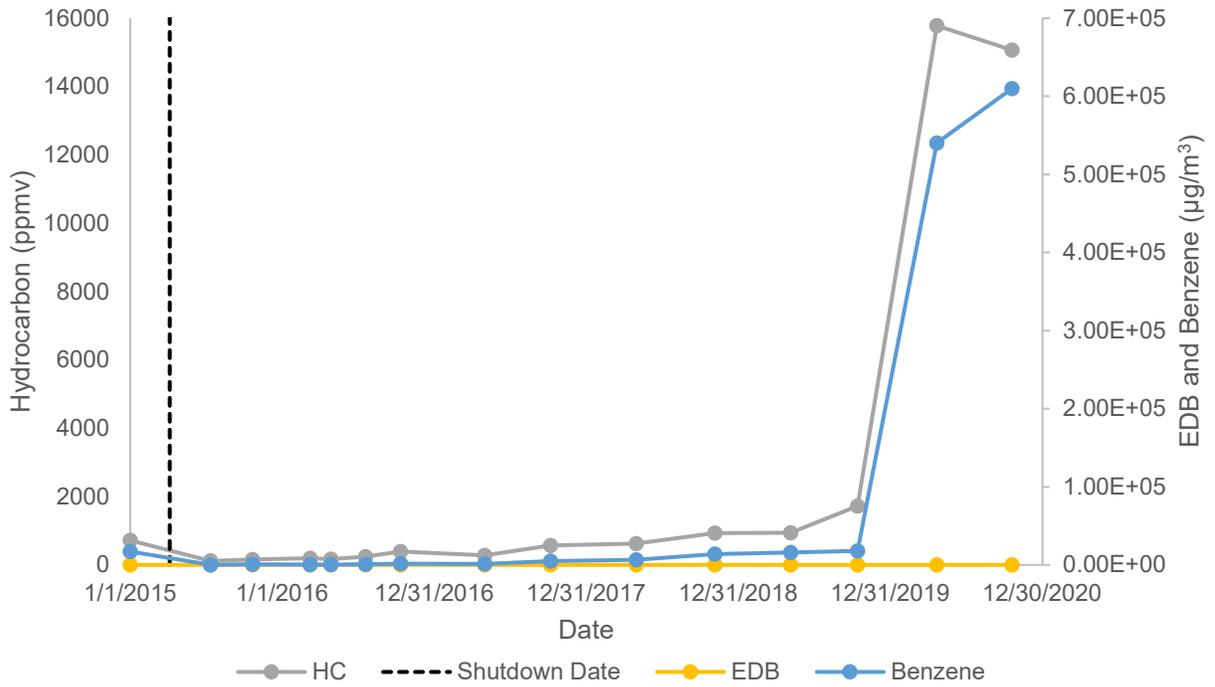
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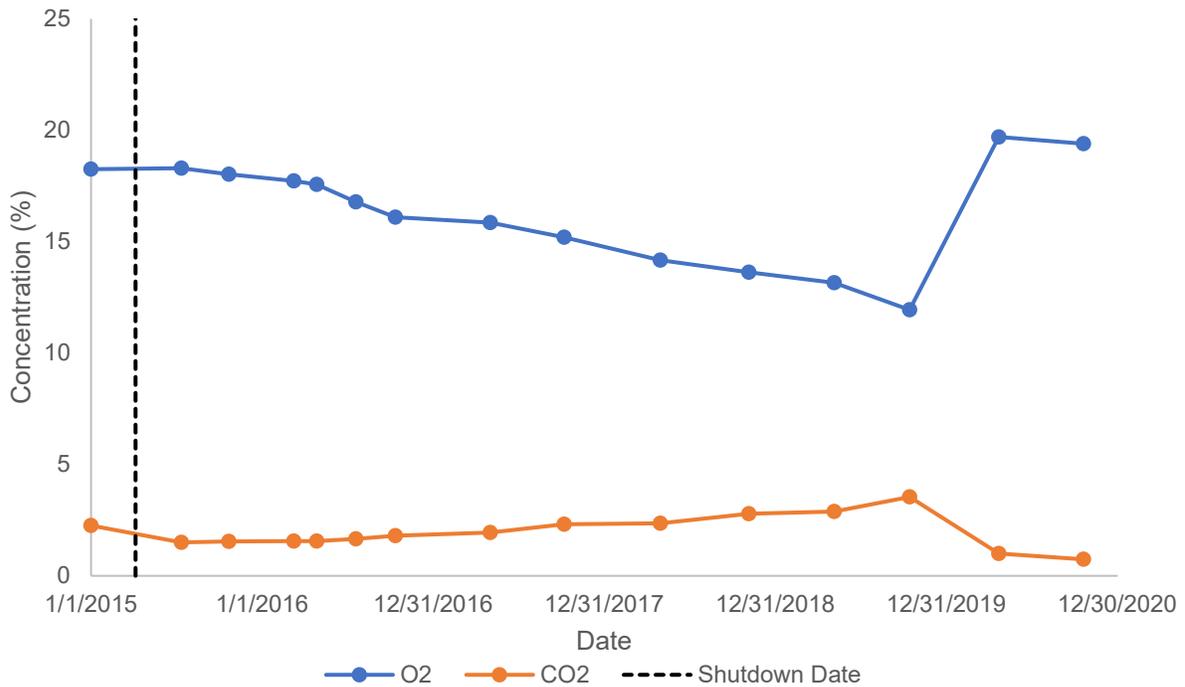
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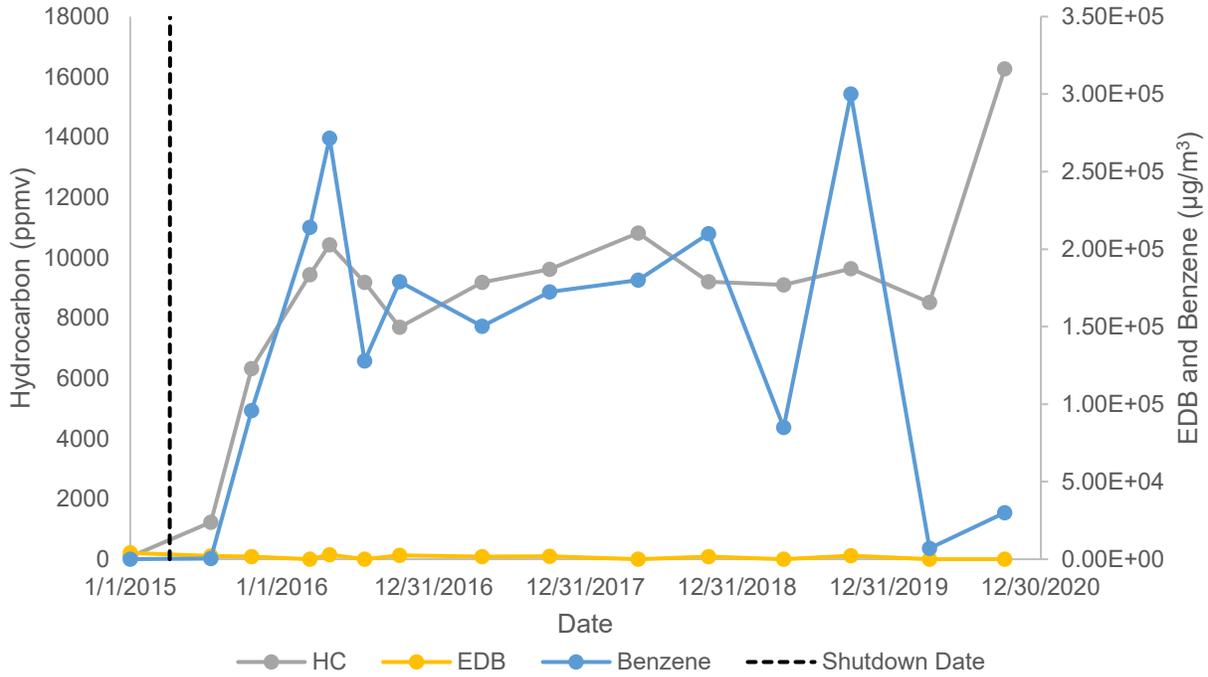
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



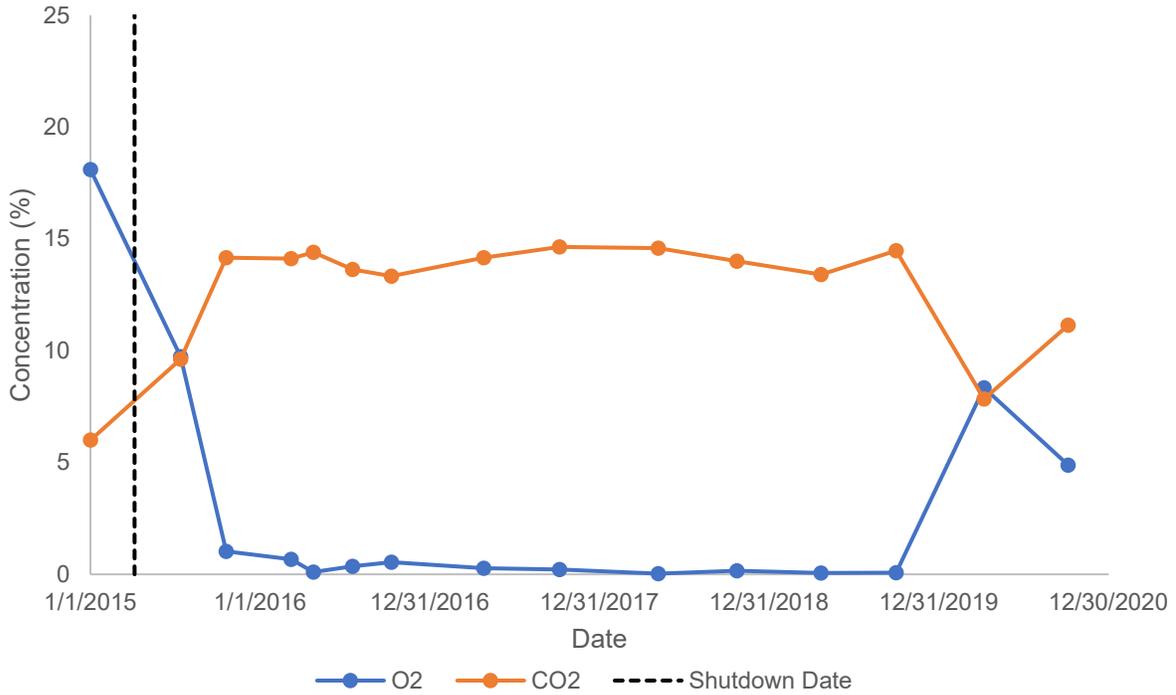
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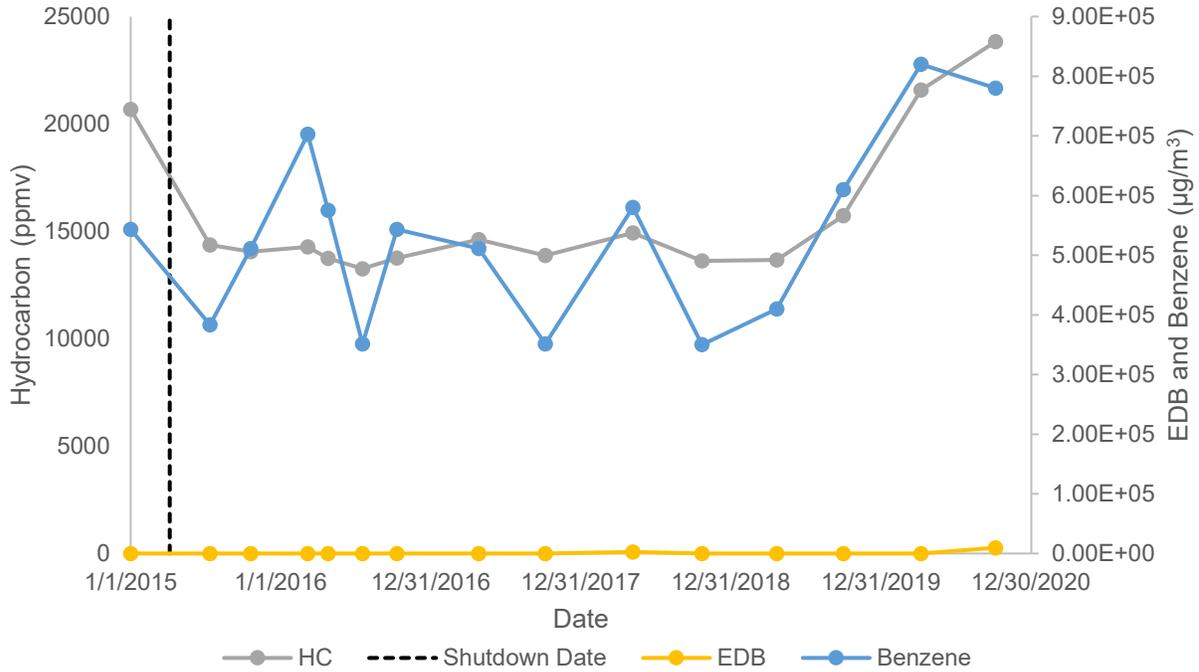
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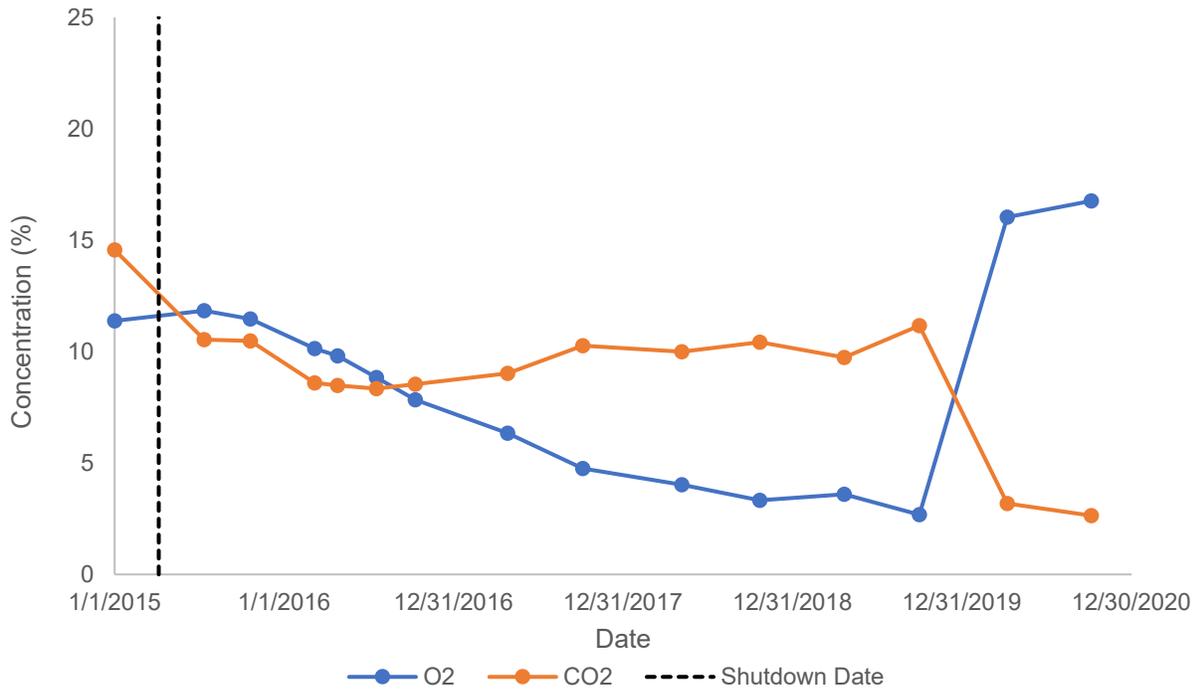
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**Oxygen and Carbon Dioxide Concentrations Over Time**



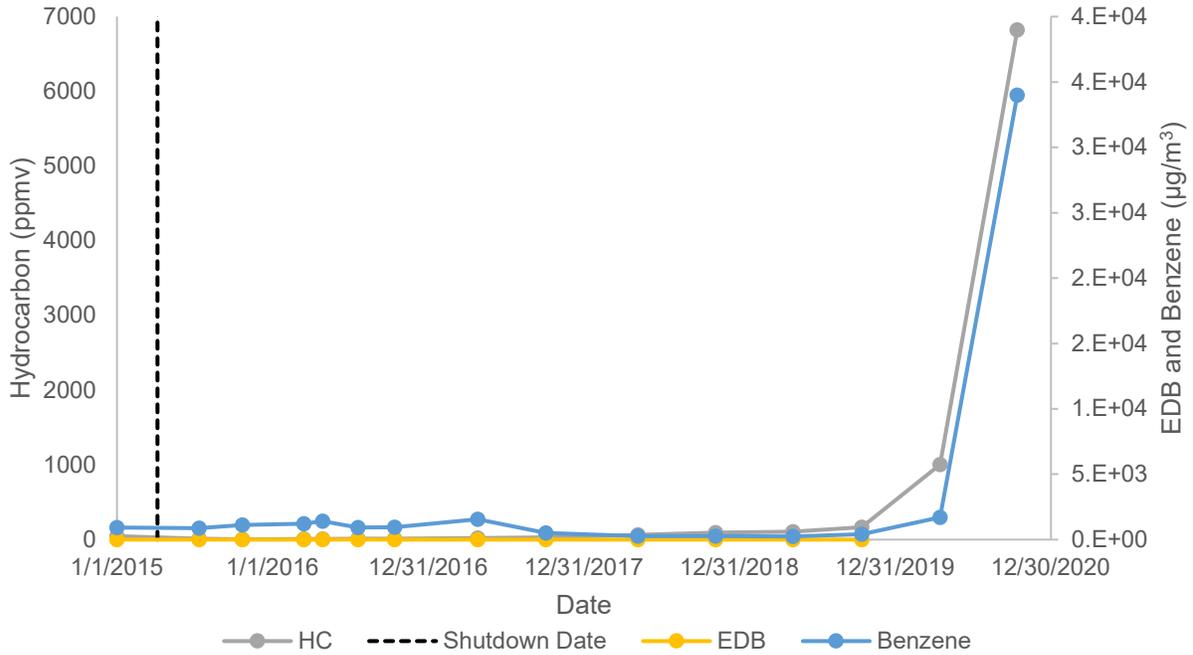
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



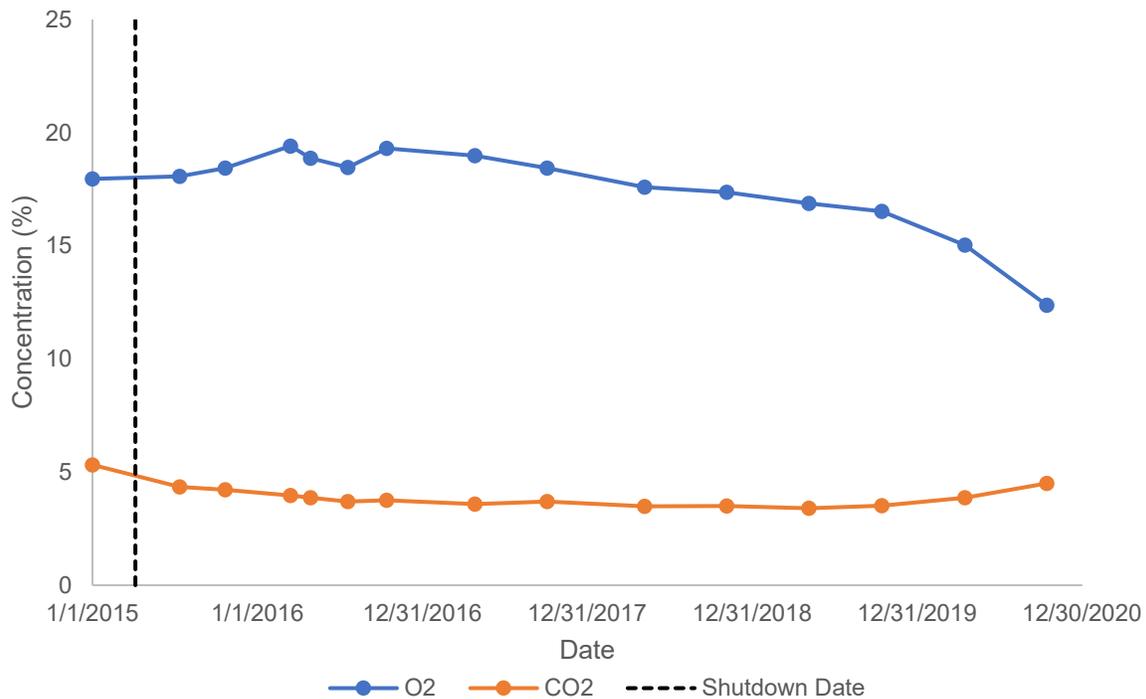
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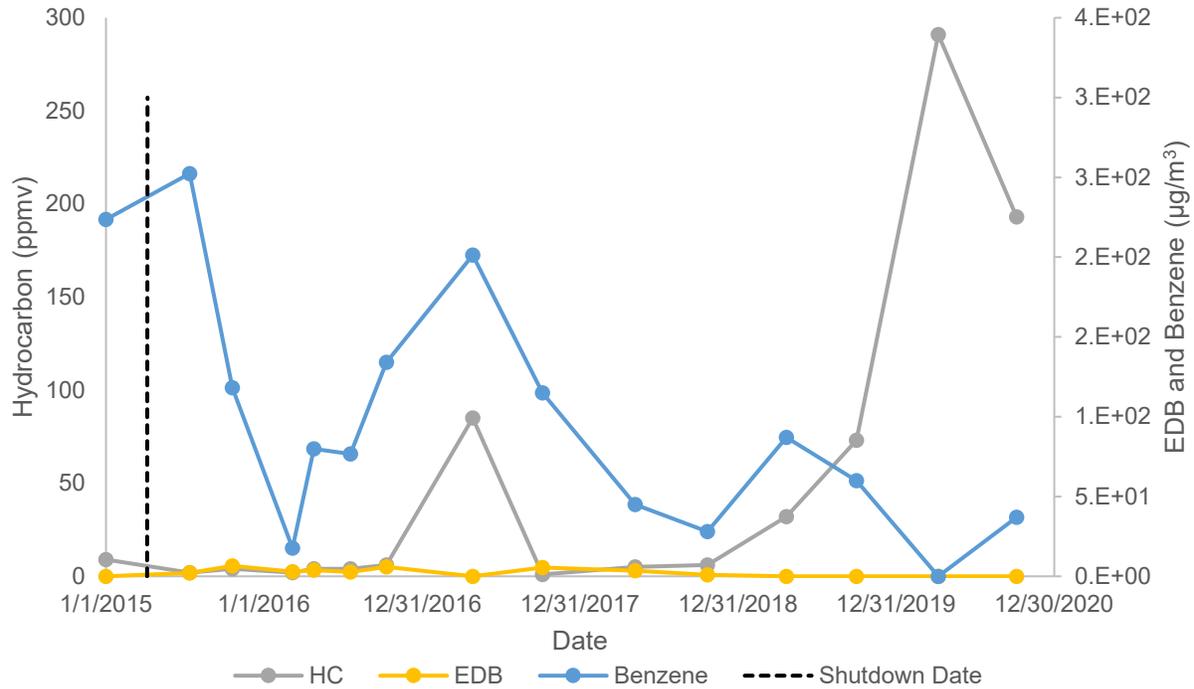
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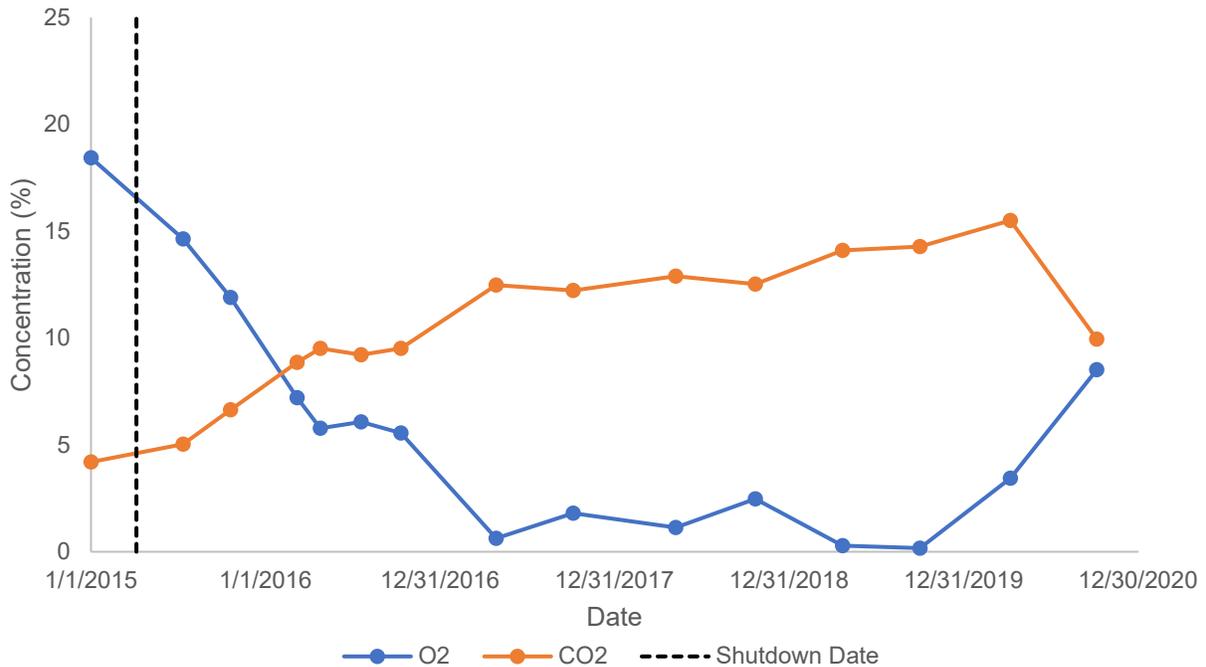
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**Oxygen and Carbon Dioxide Concentrations Over Time**



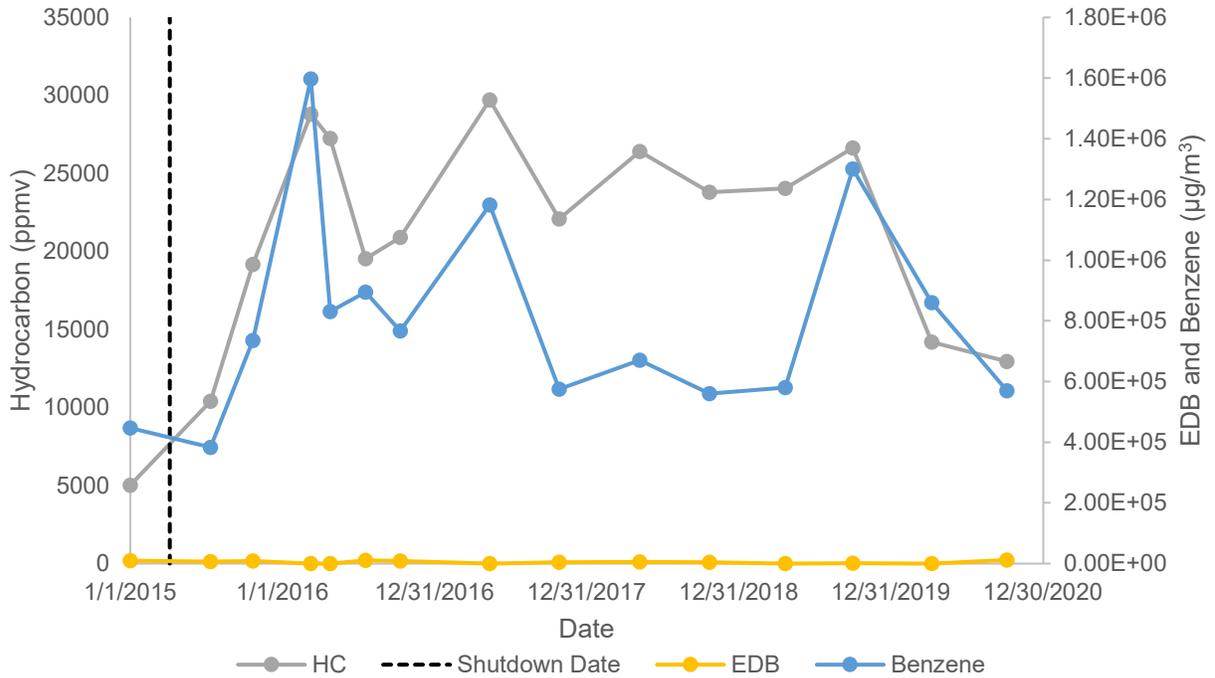
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



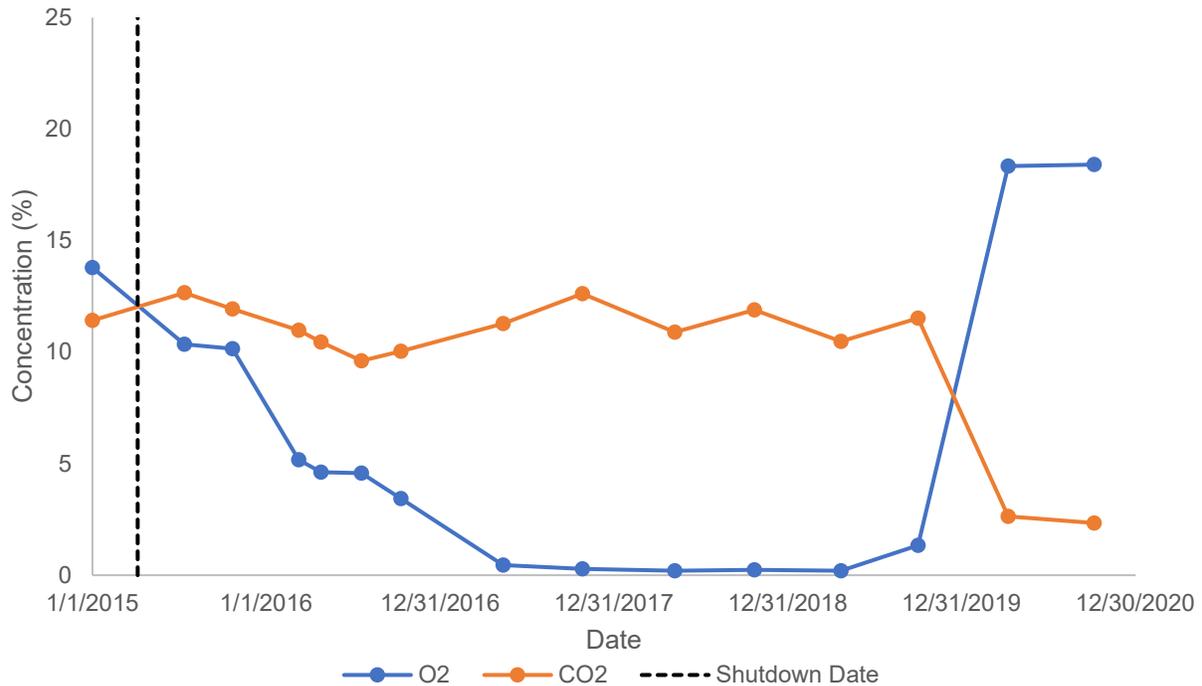
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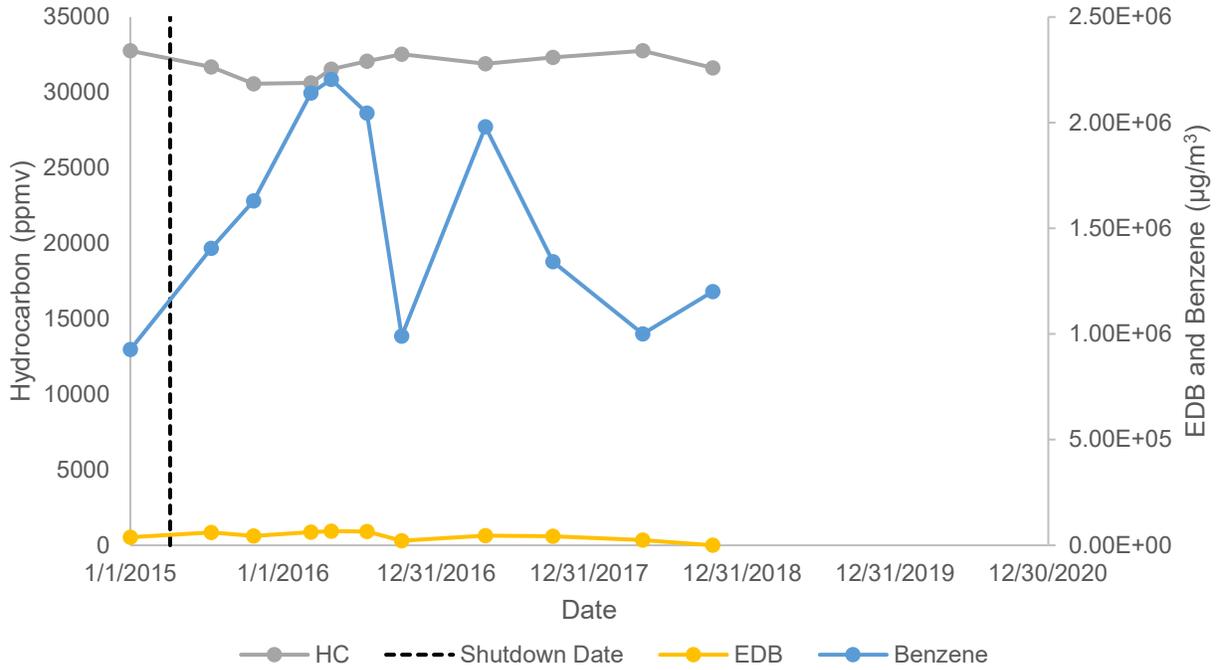
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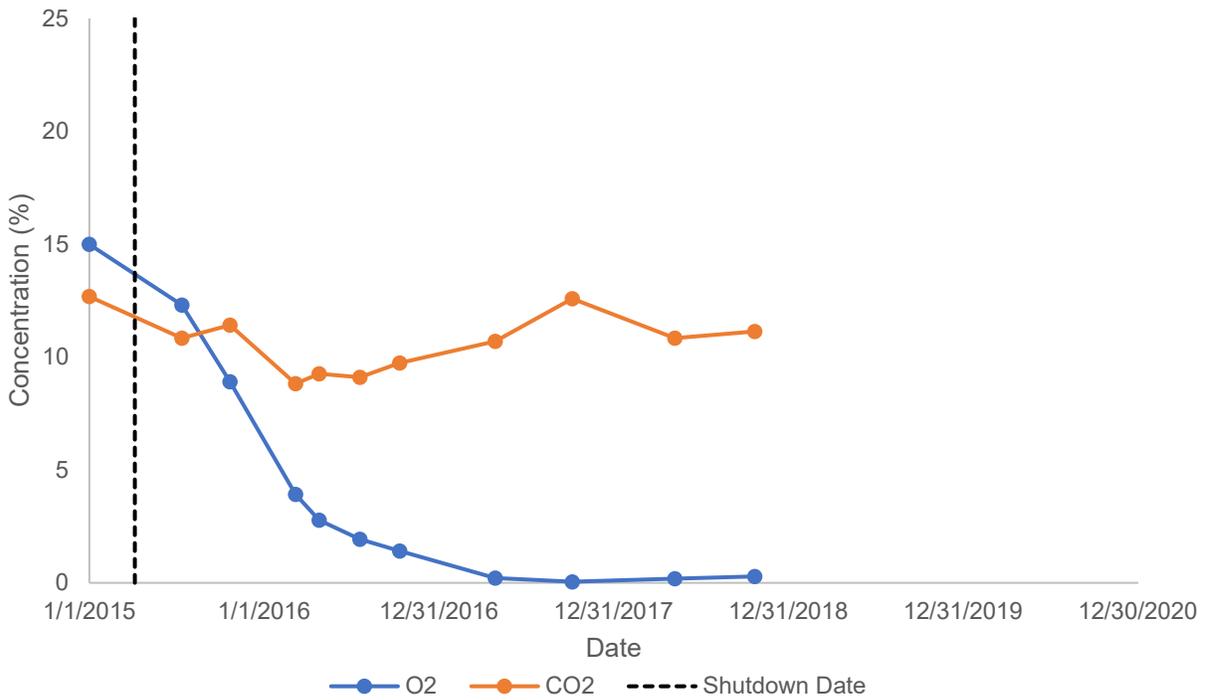
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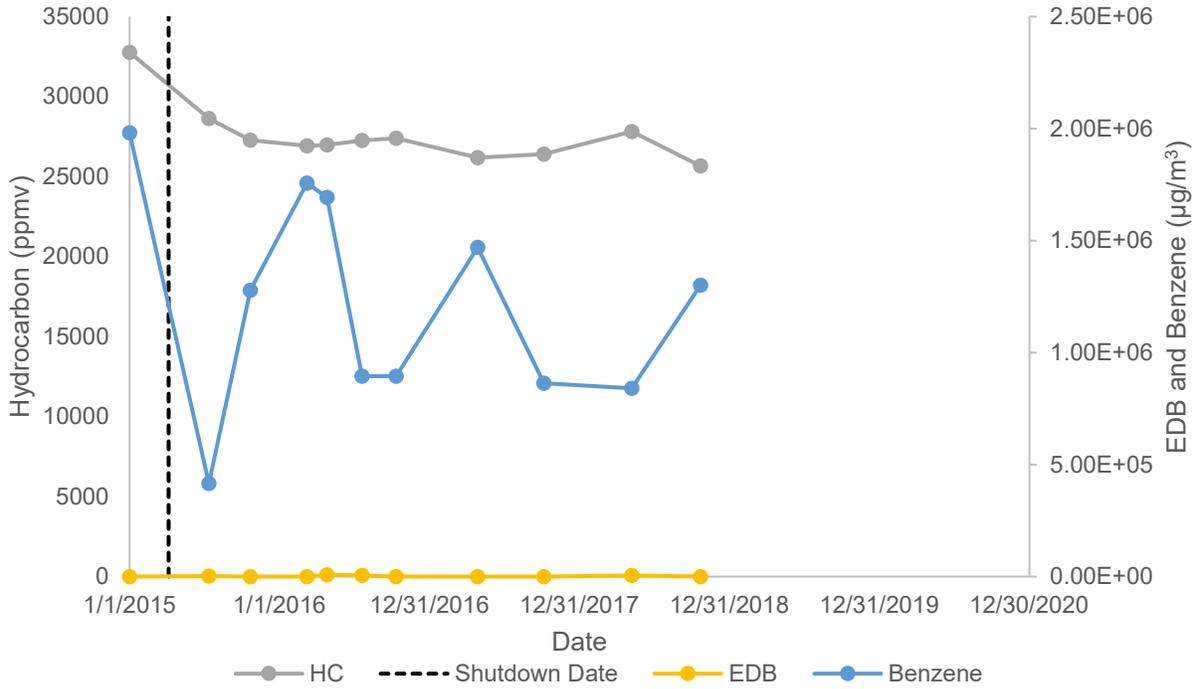
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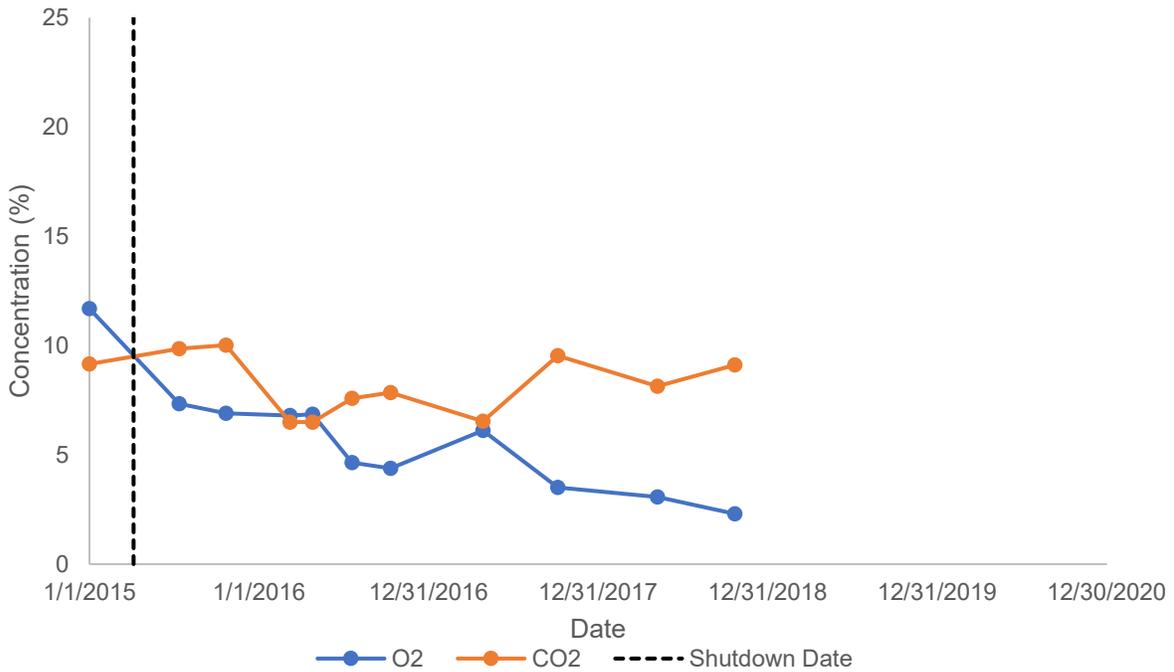
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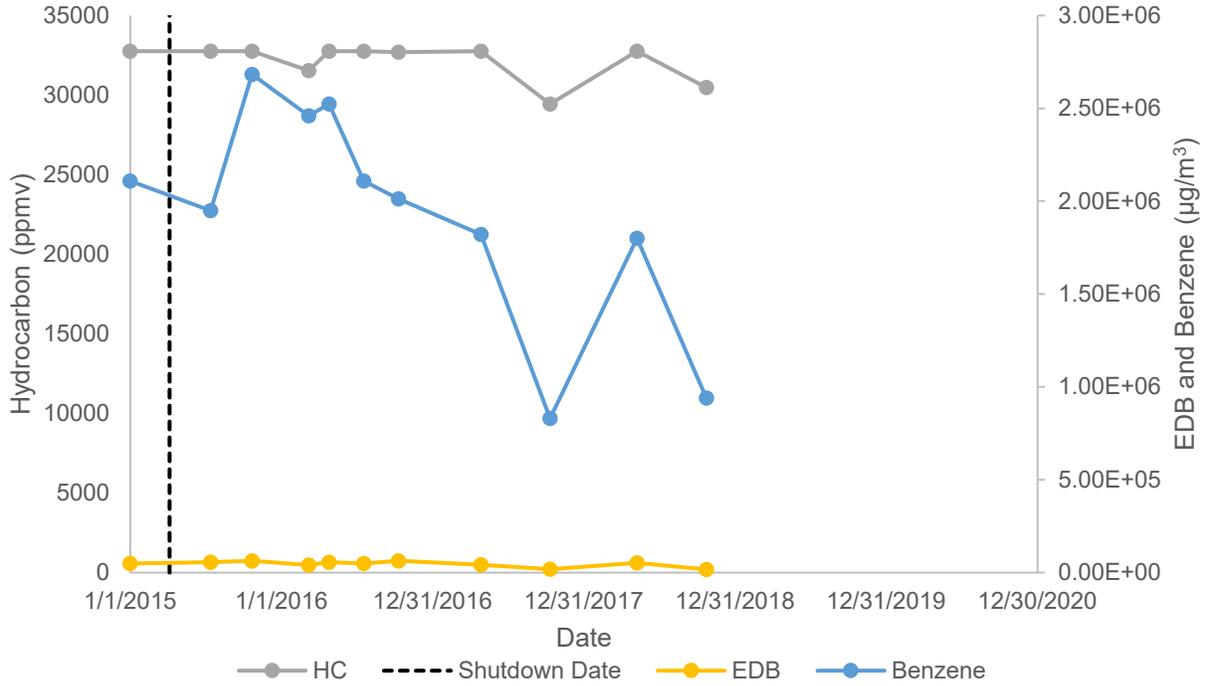
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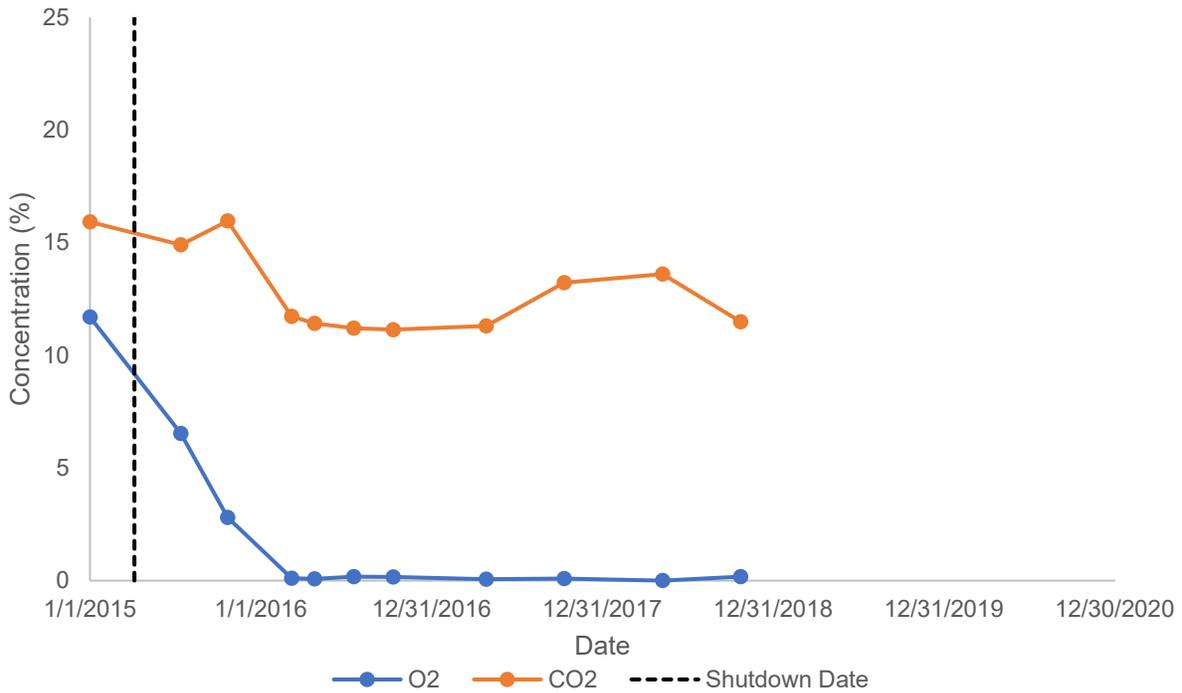
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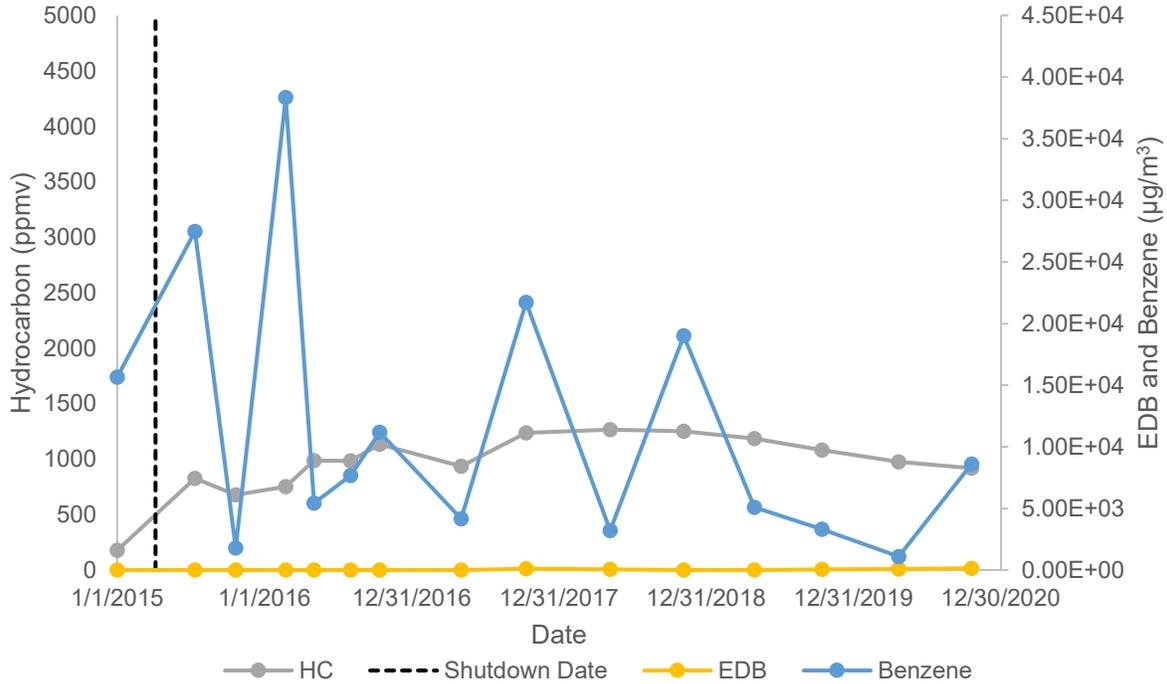
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



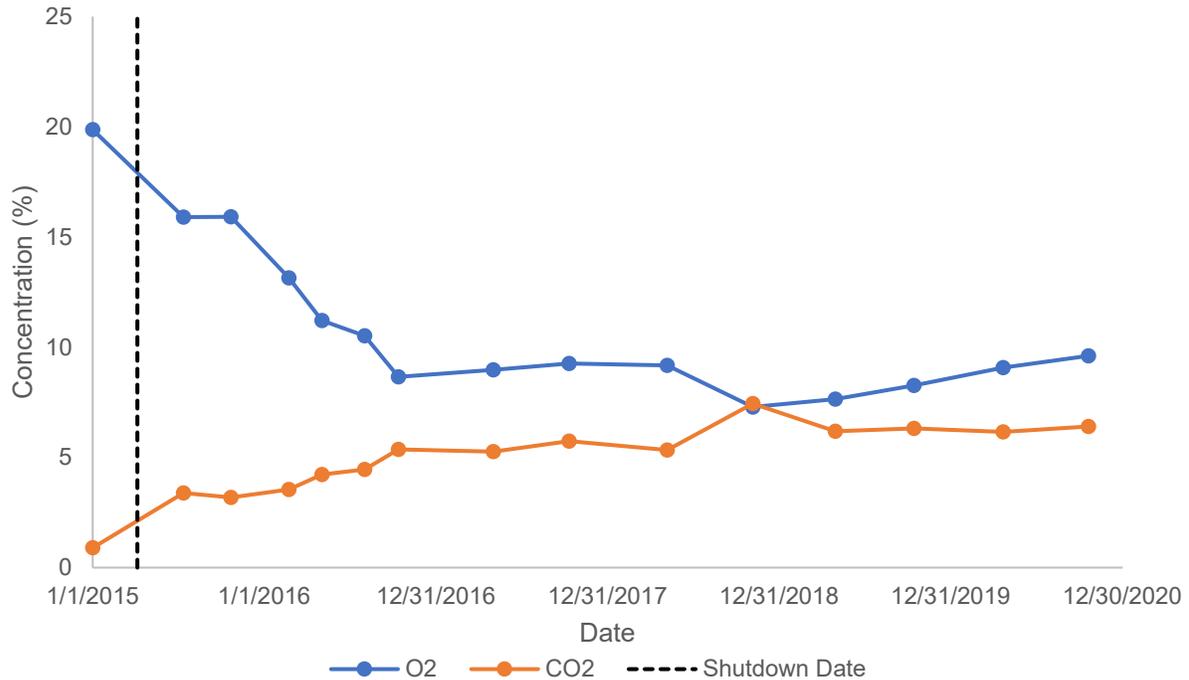
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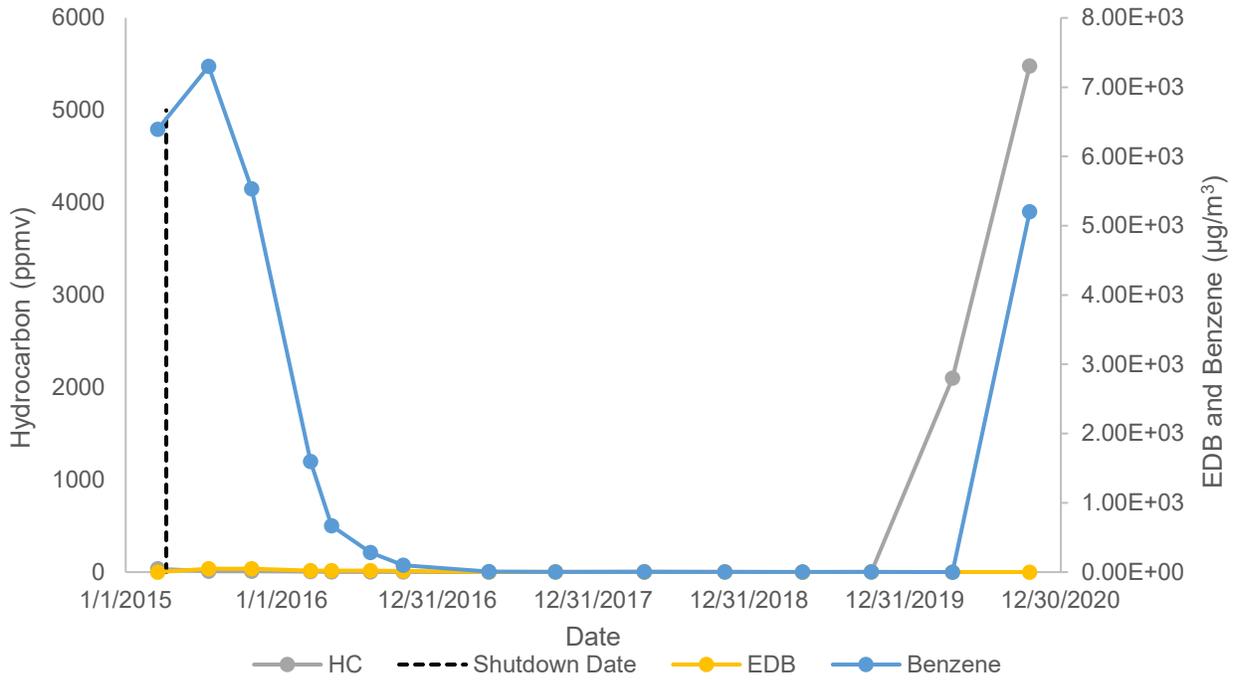
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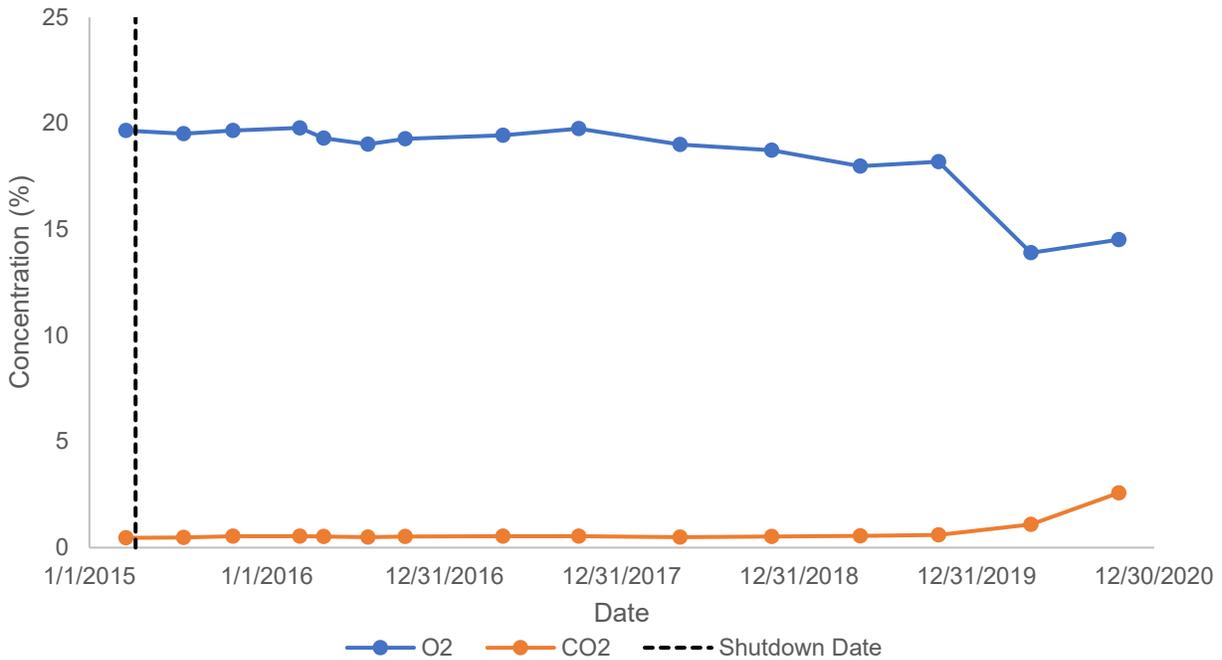
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**Oxygen and Carbon Dioxide Concentrations Over Time**



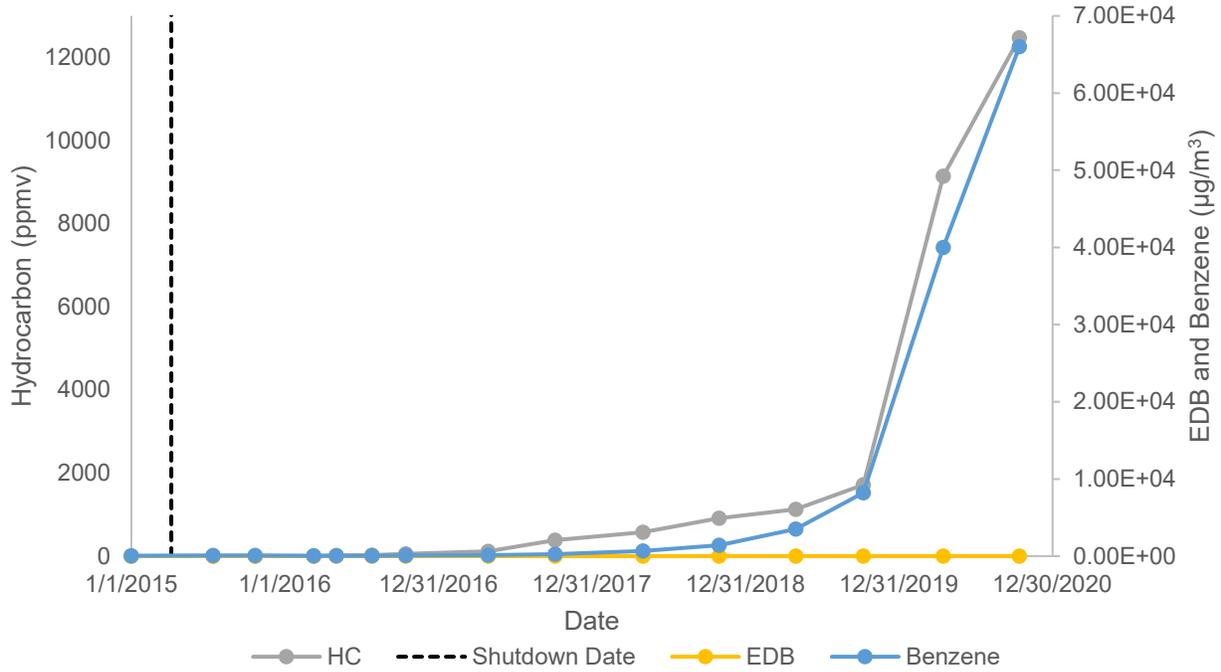
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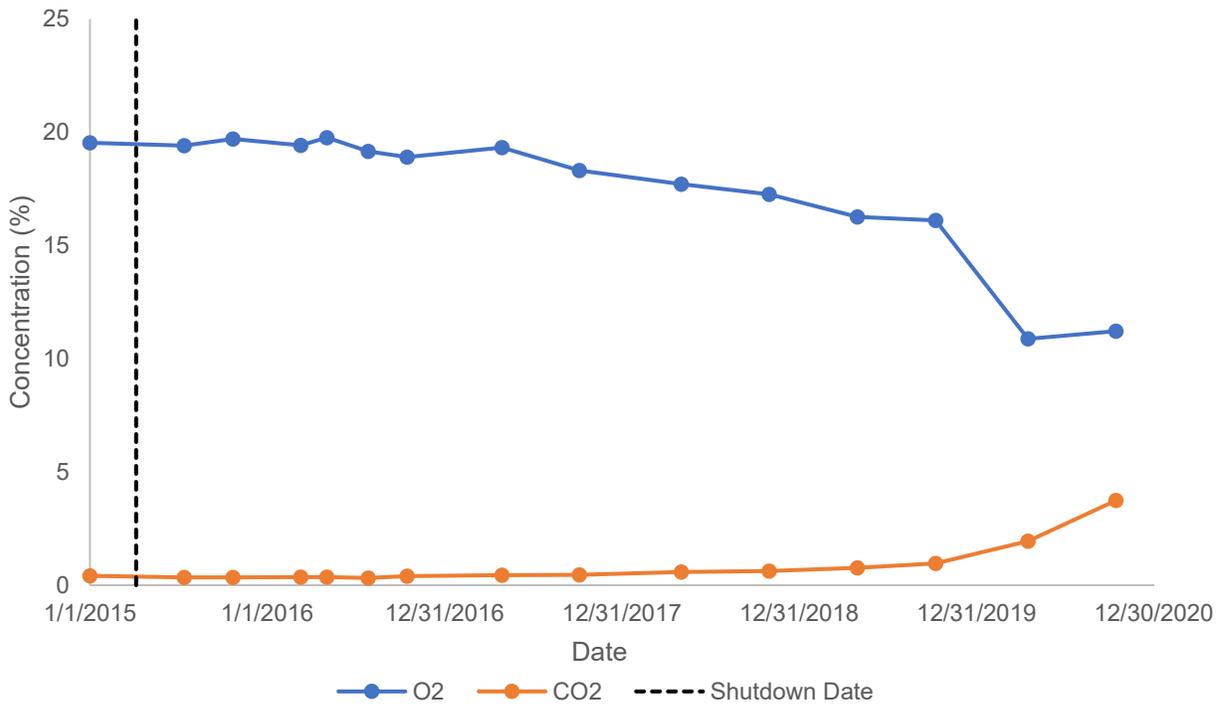
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**Oxygen and Carbon Dioxide Concentrations Over Time**



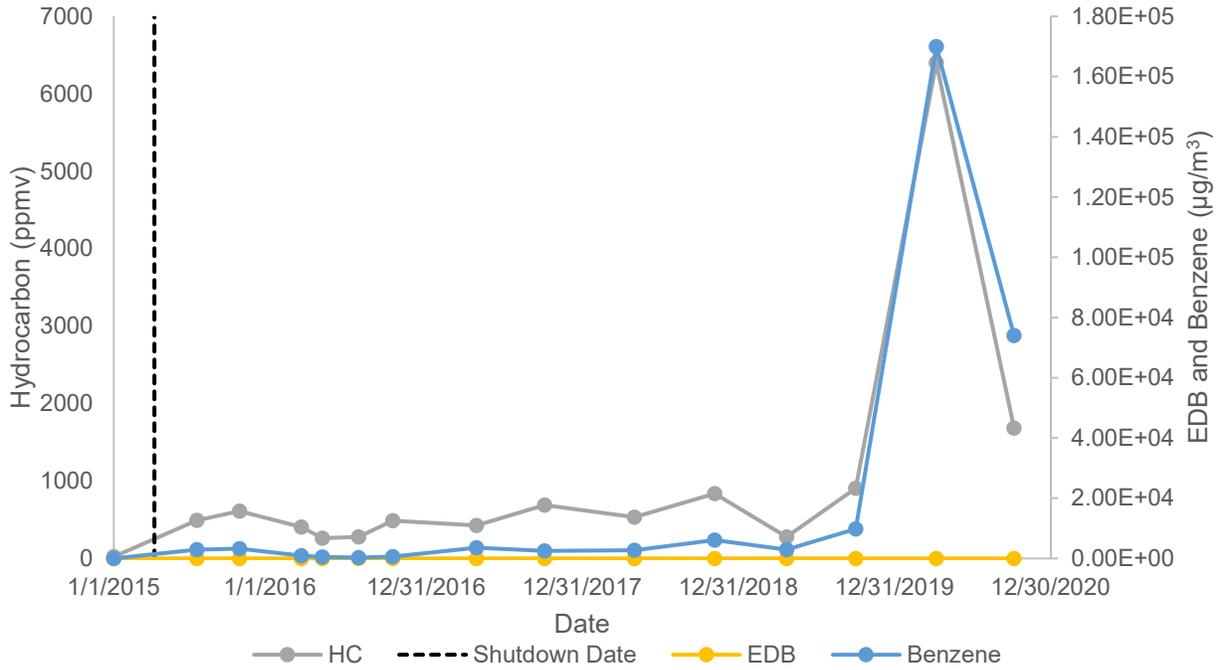
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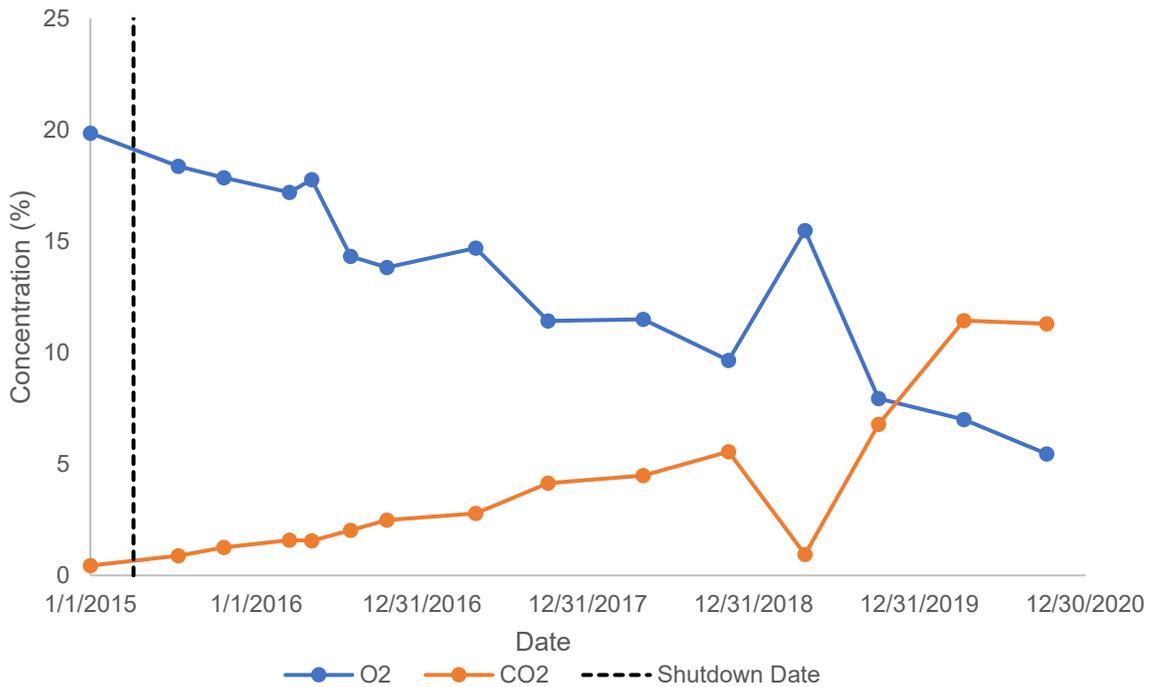
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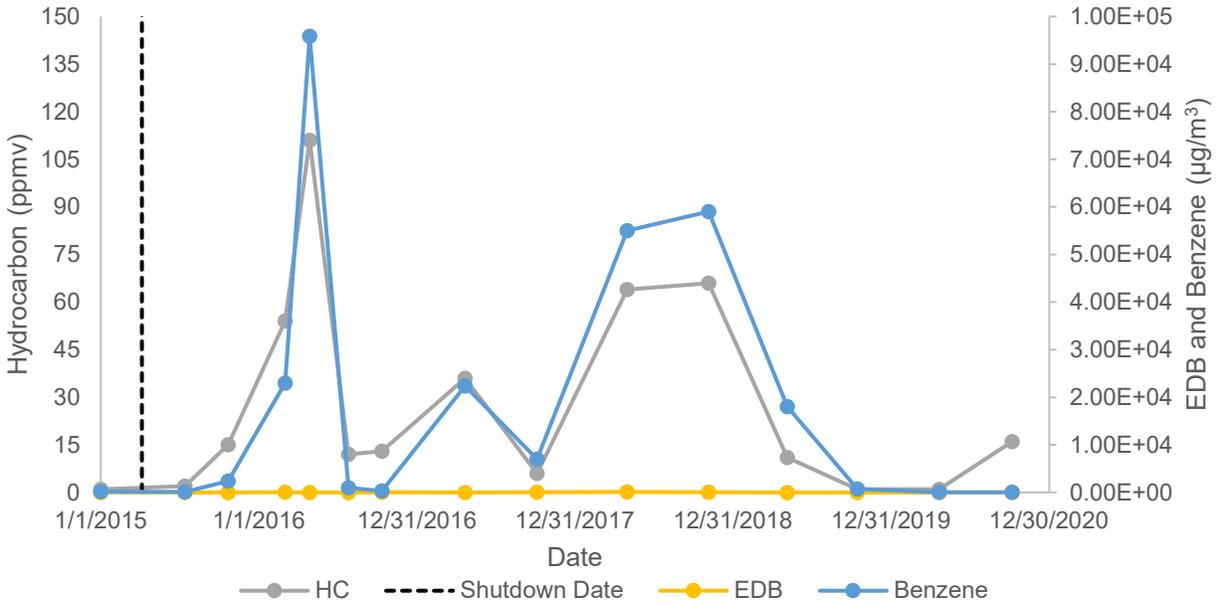
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



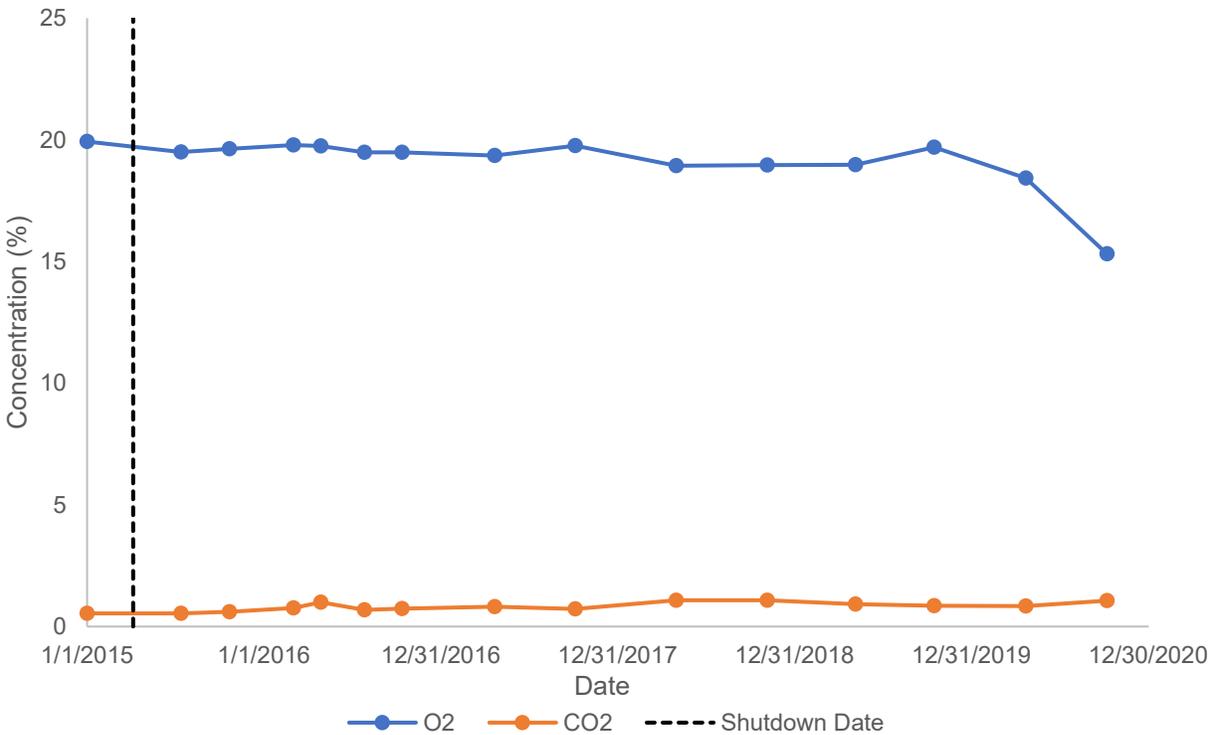
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**Oxygen and Carbon Dioxide Concentrations Over Time**



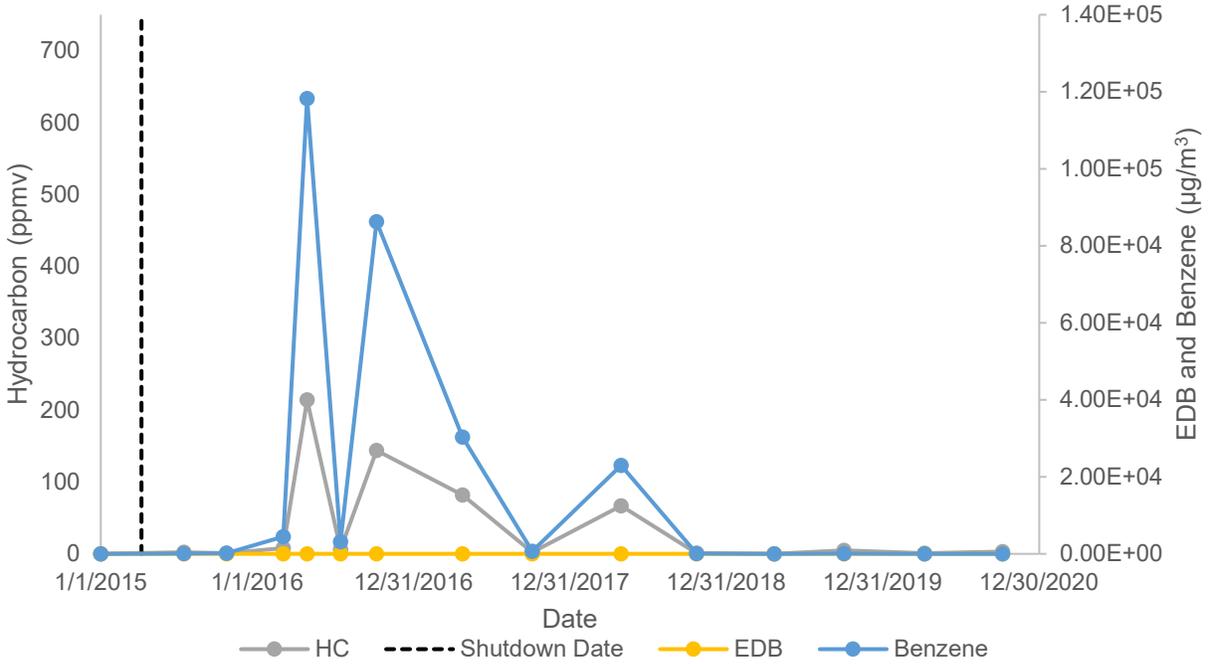
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



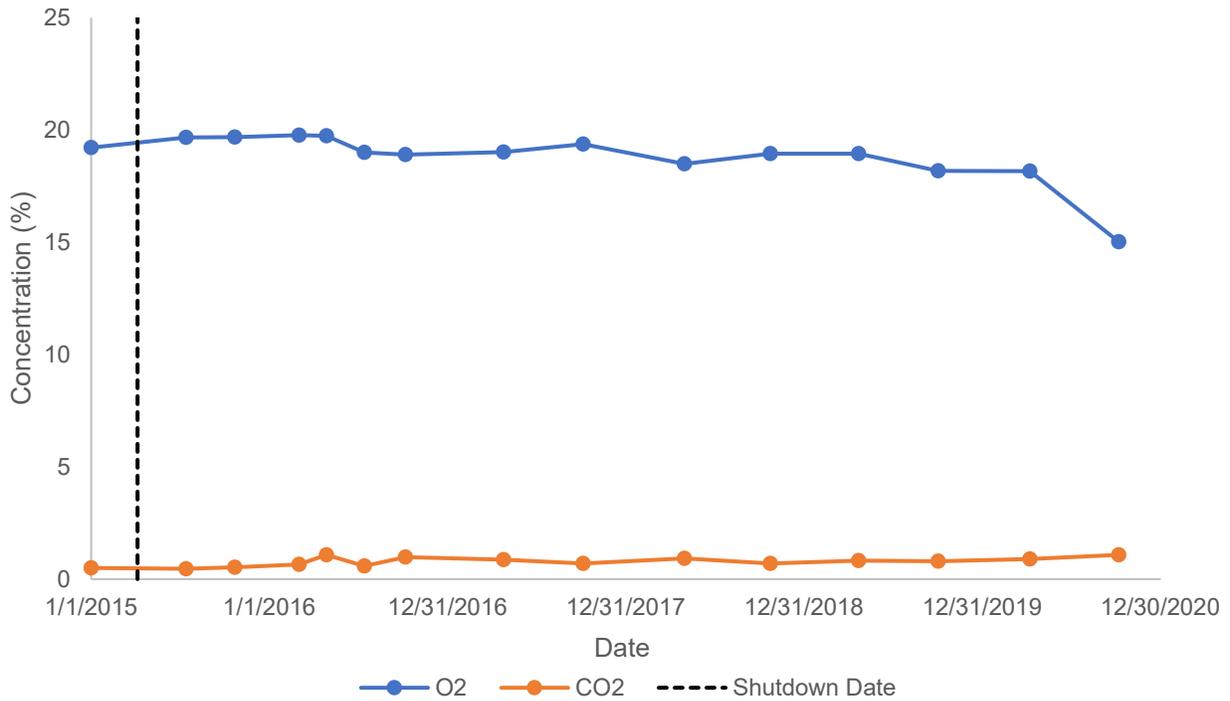
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**Oxygen and Carbon Dioxide Concentrations Over Time**



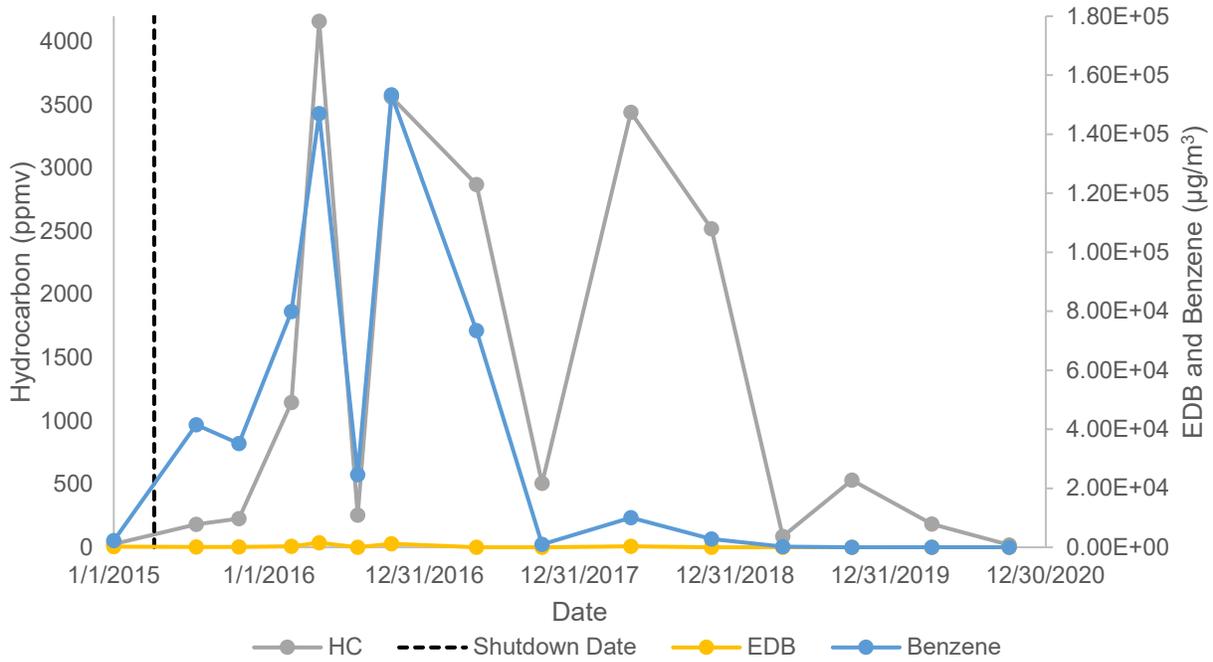
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



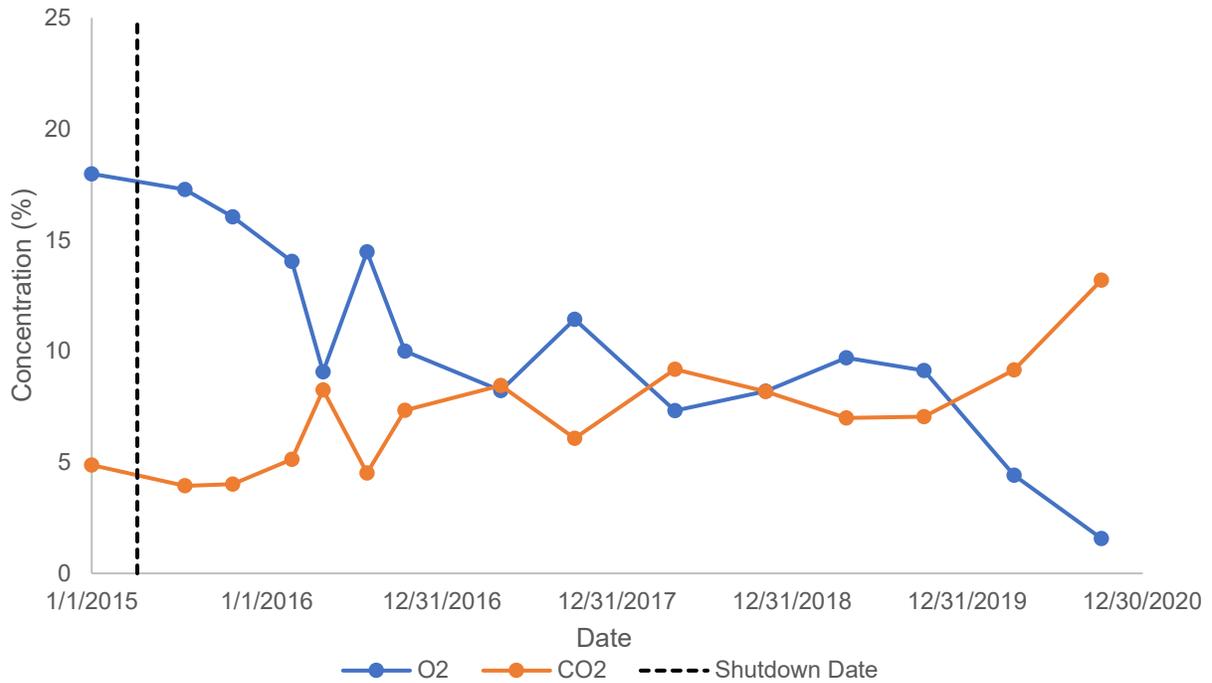
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**Oxygen and Carbon Dioxide Concentrations Over Time**



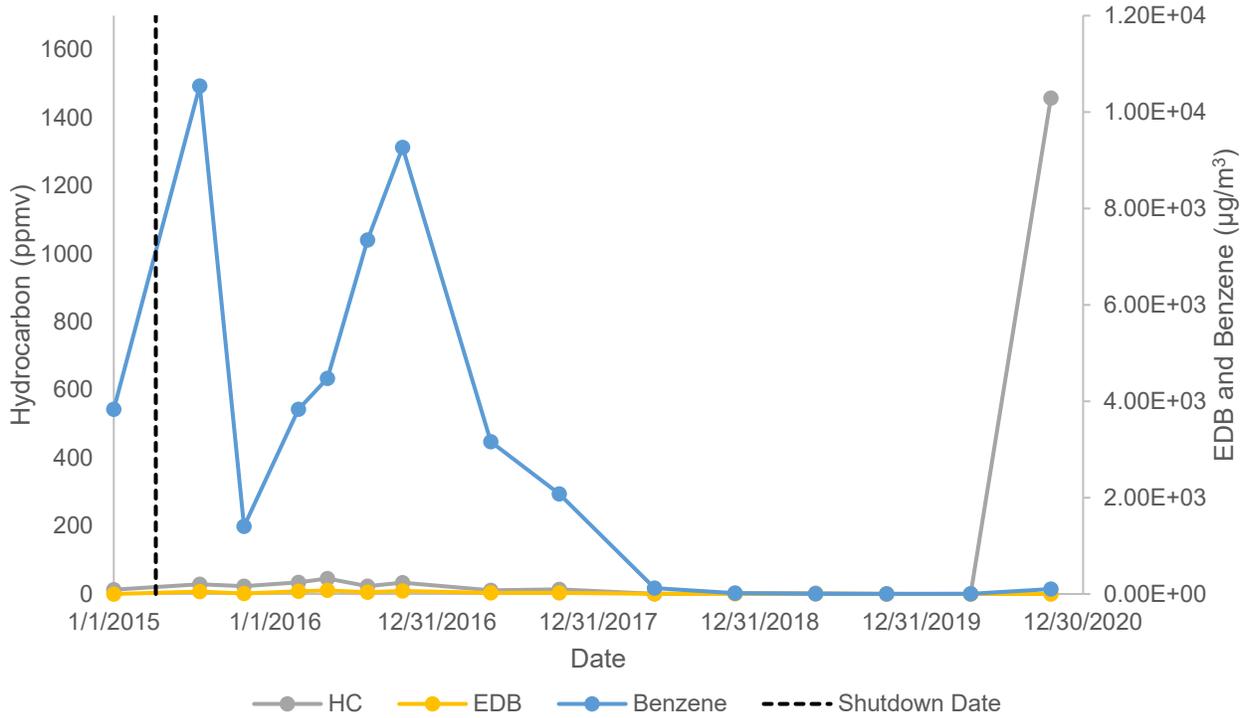
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



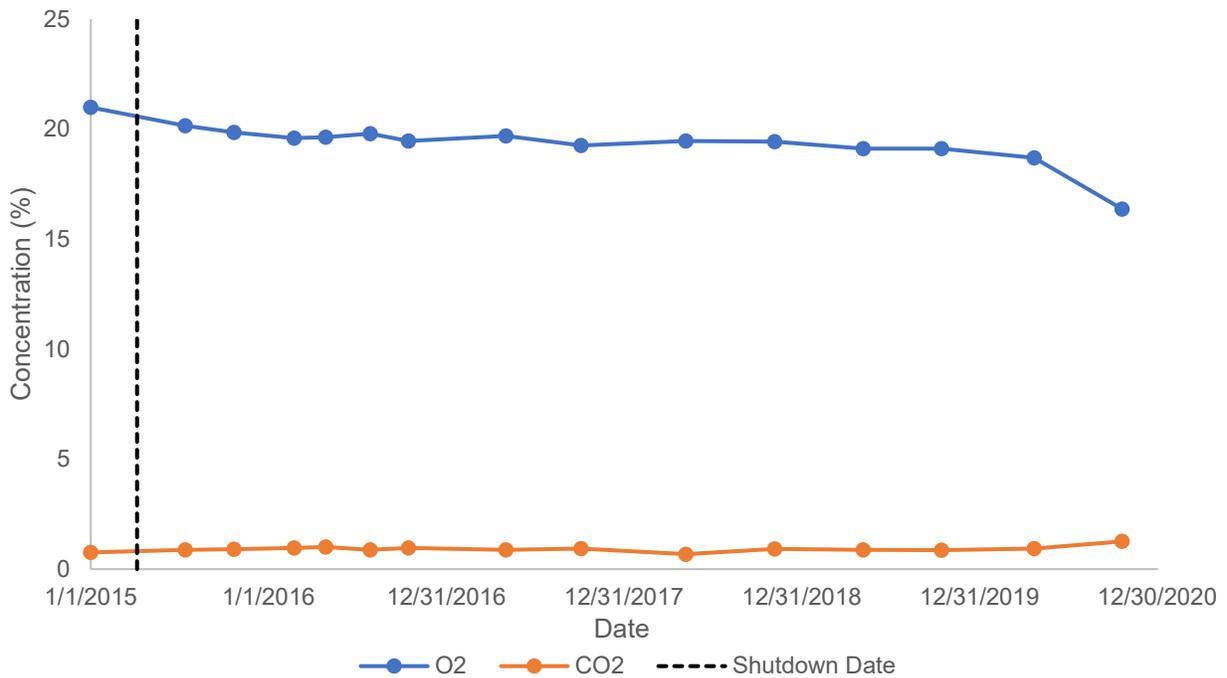
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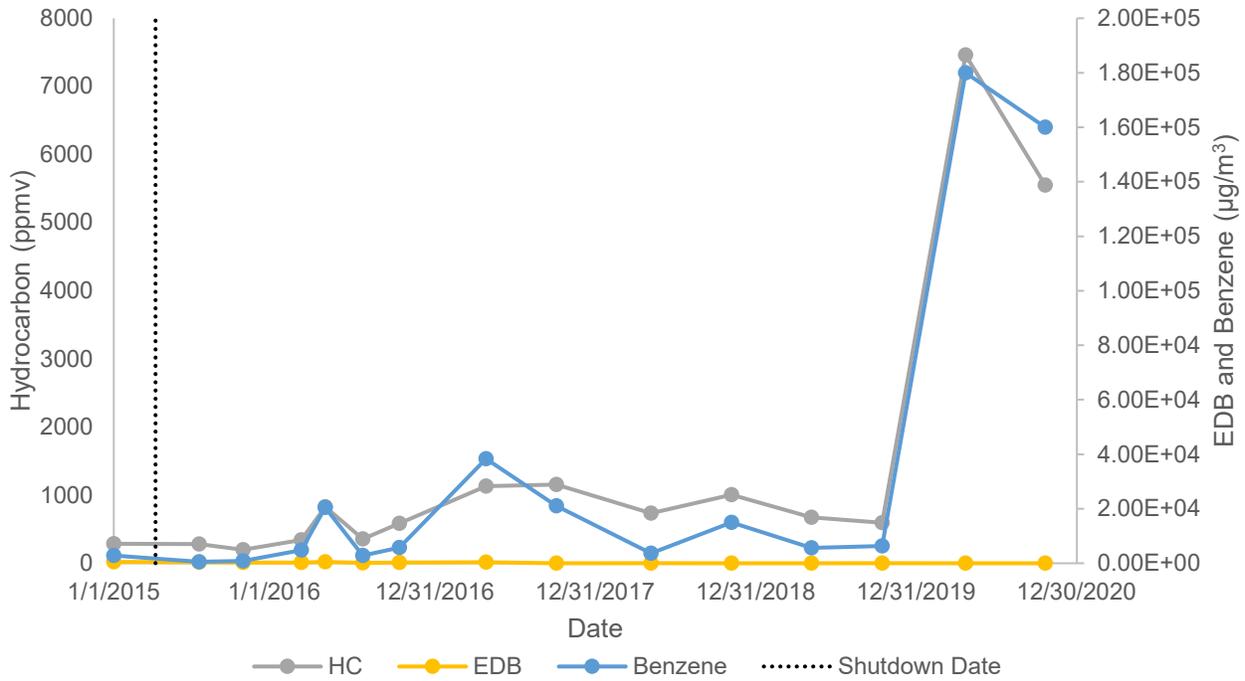
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



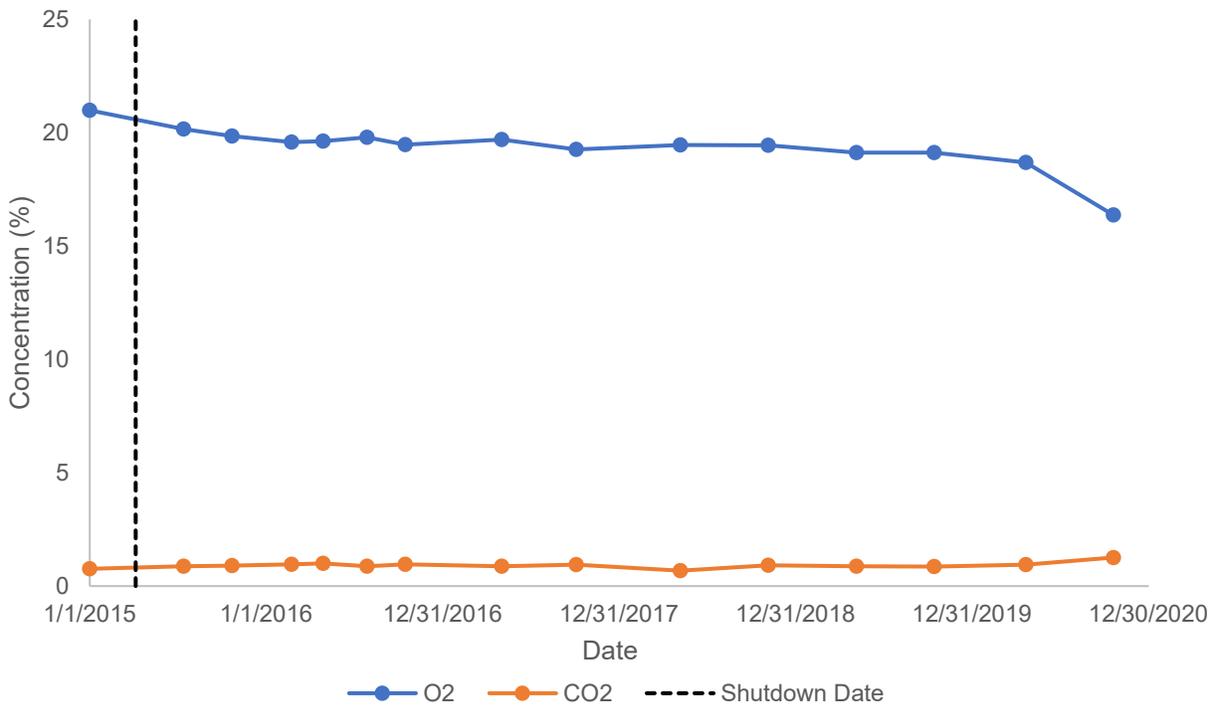
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**Oxygen and Carbon Dioxide Concentrations Over Time**



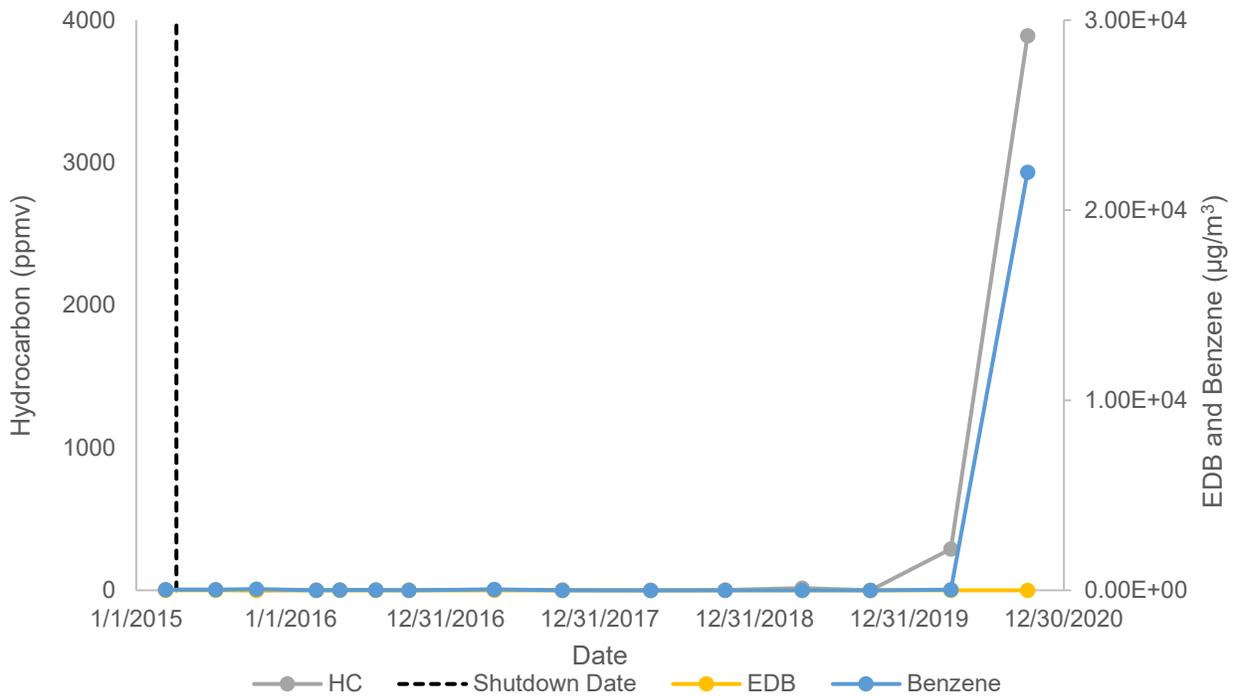
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



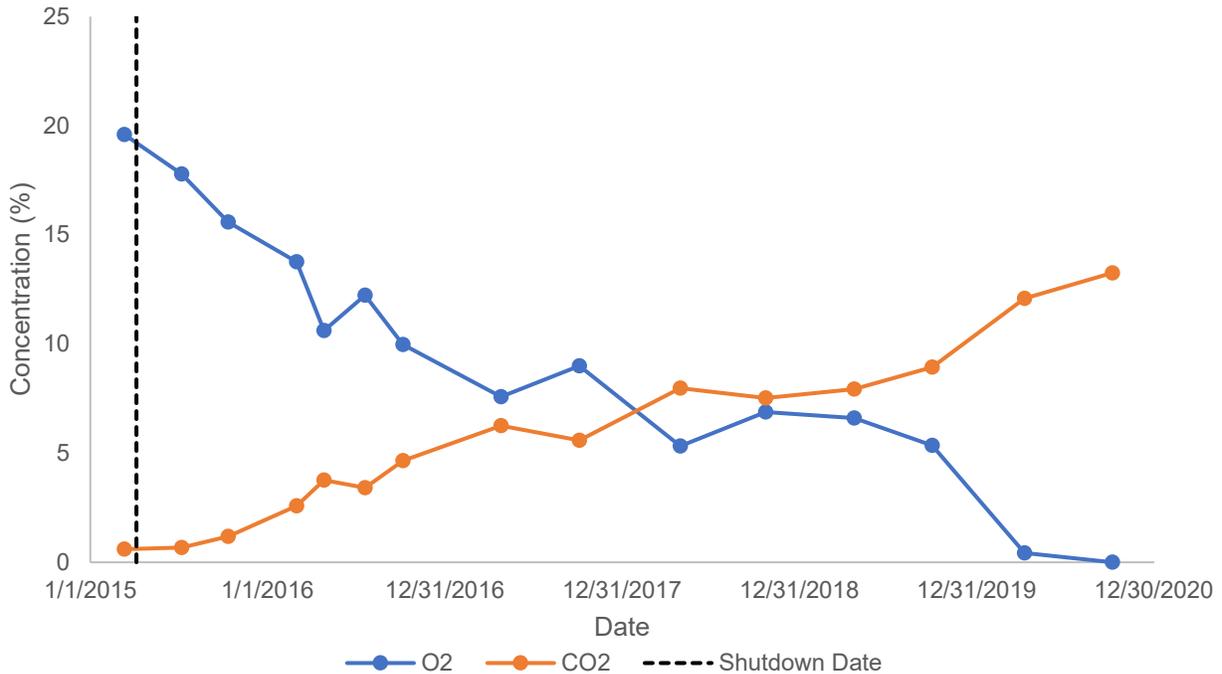
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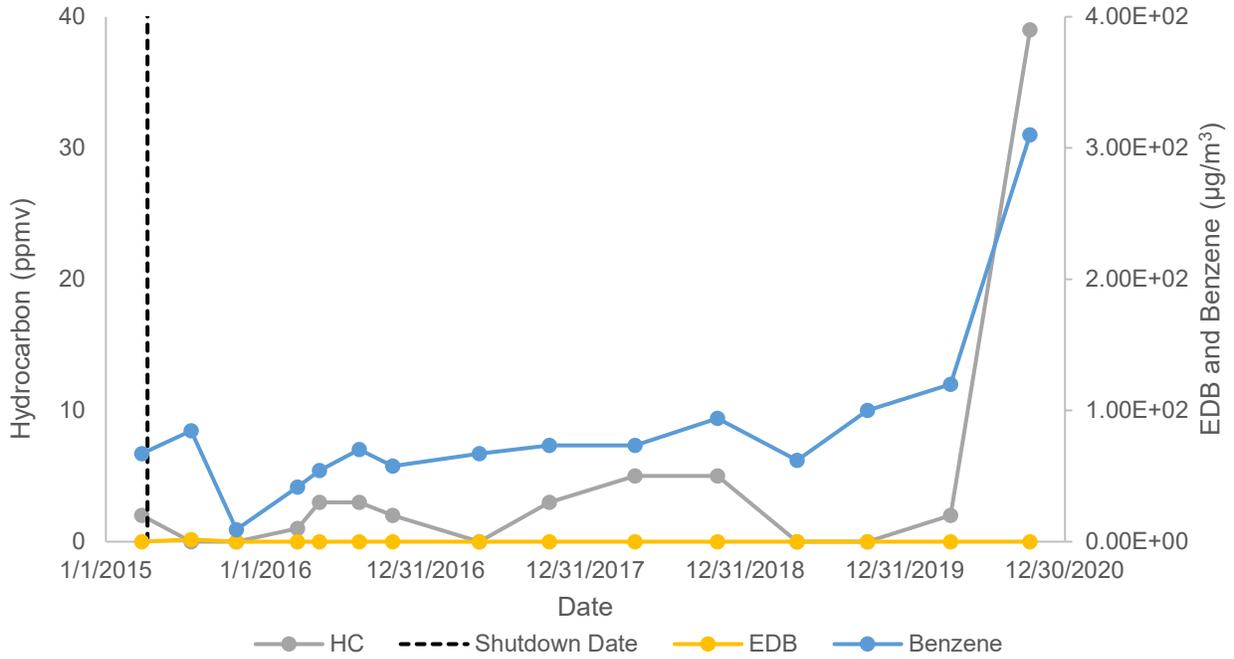
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



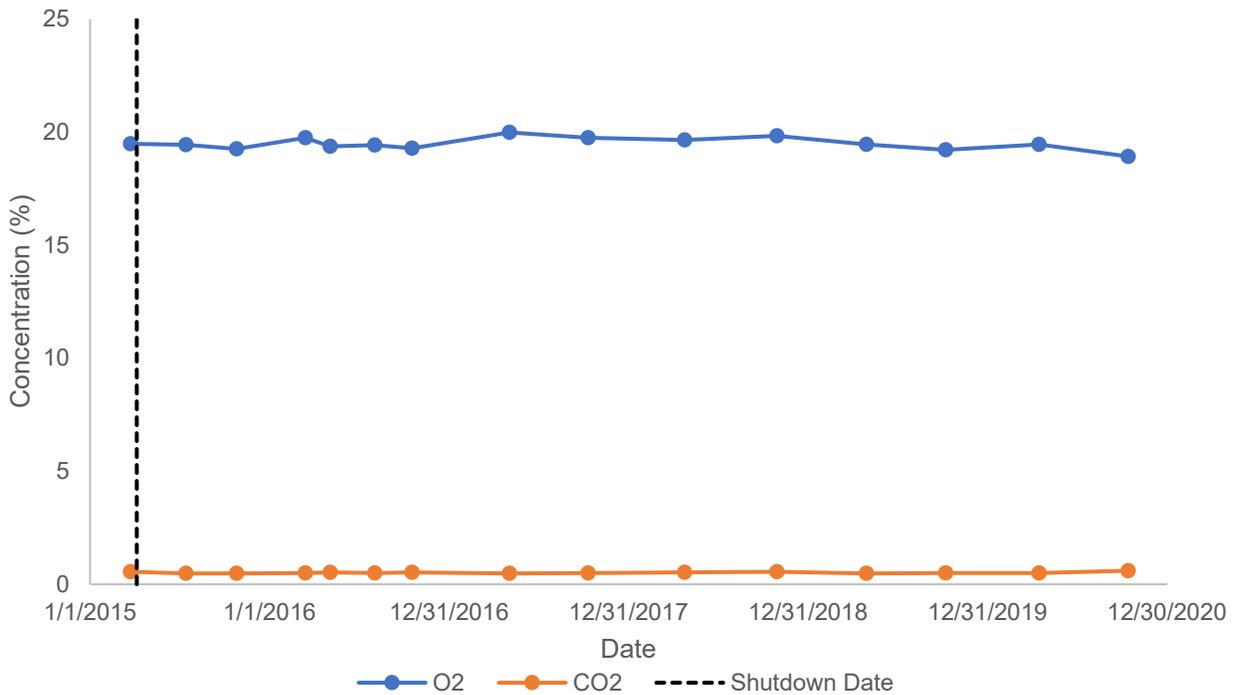
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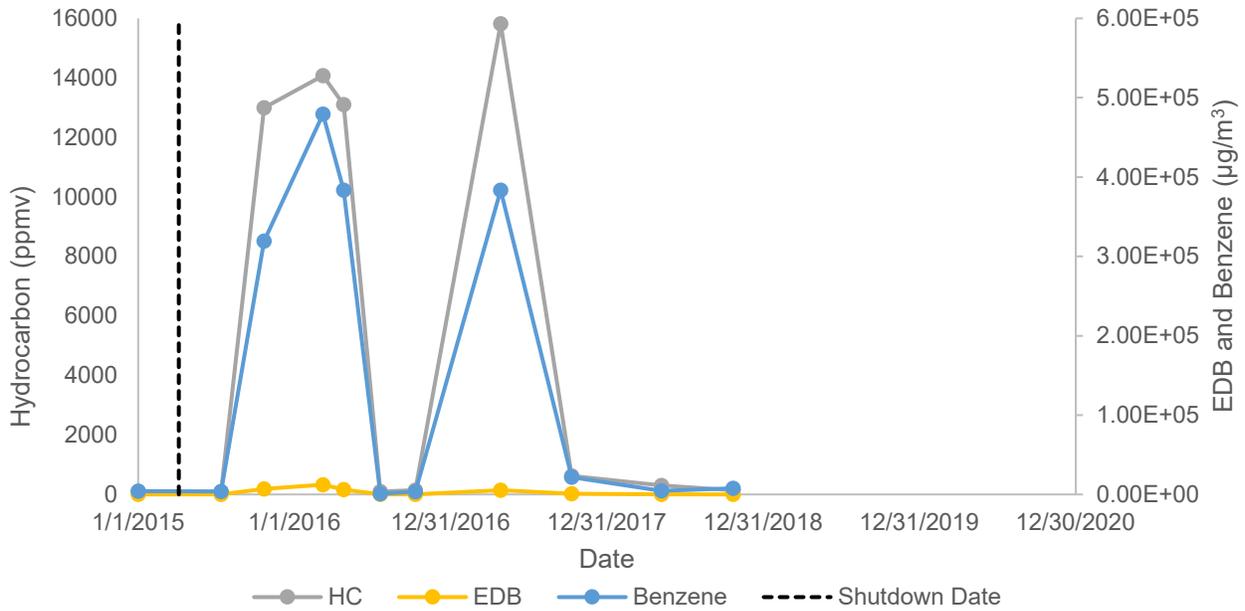
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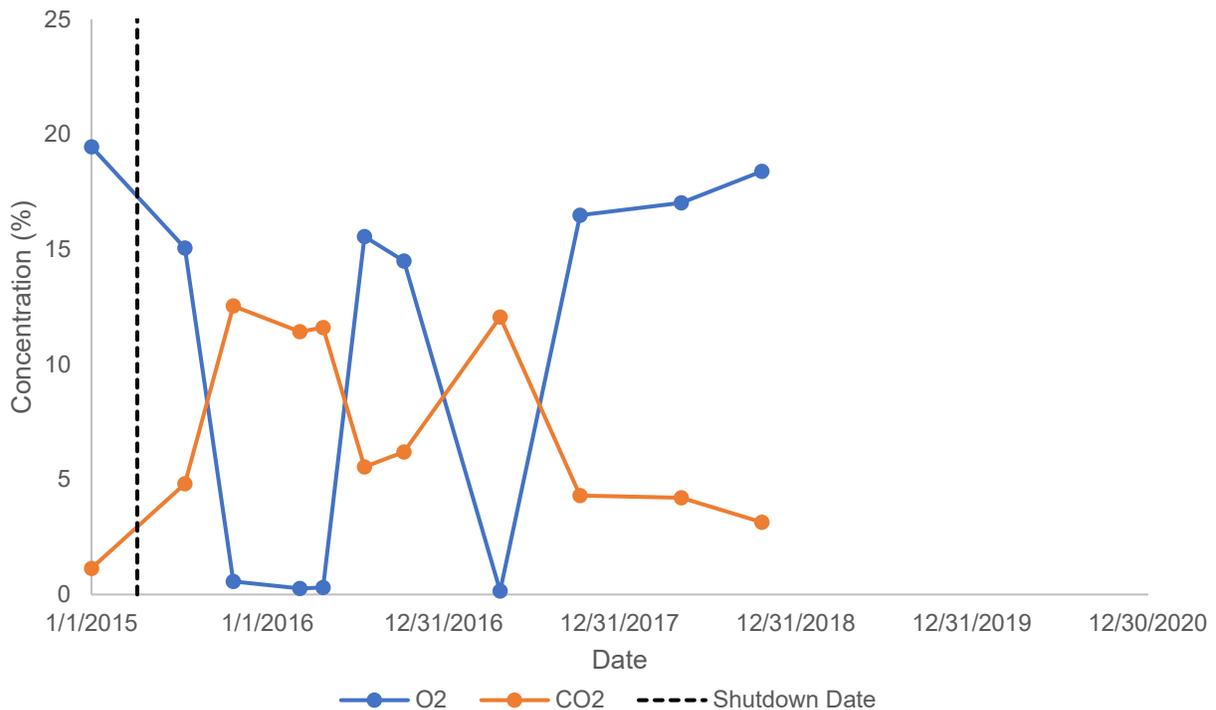
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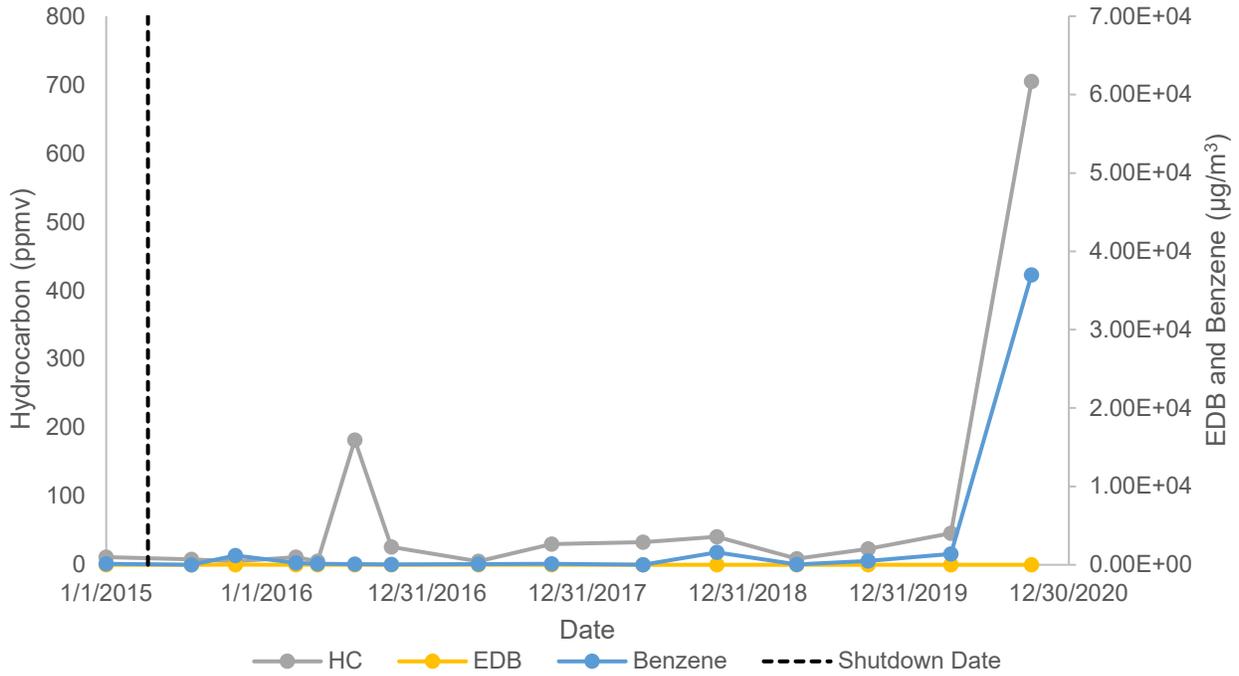
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



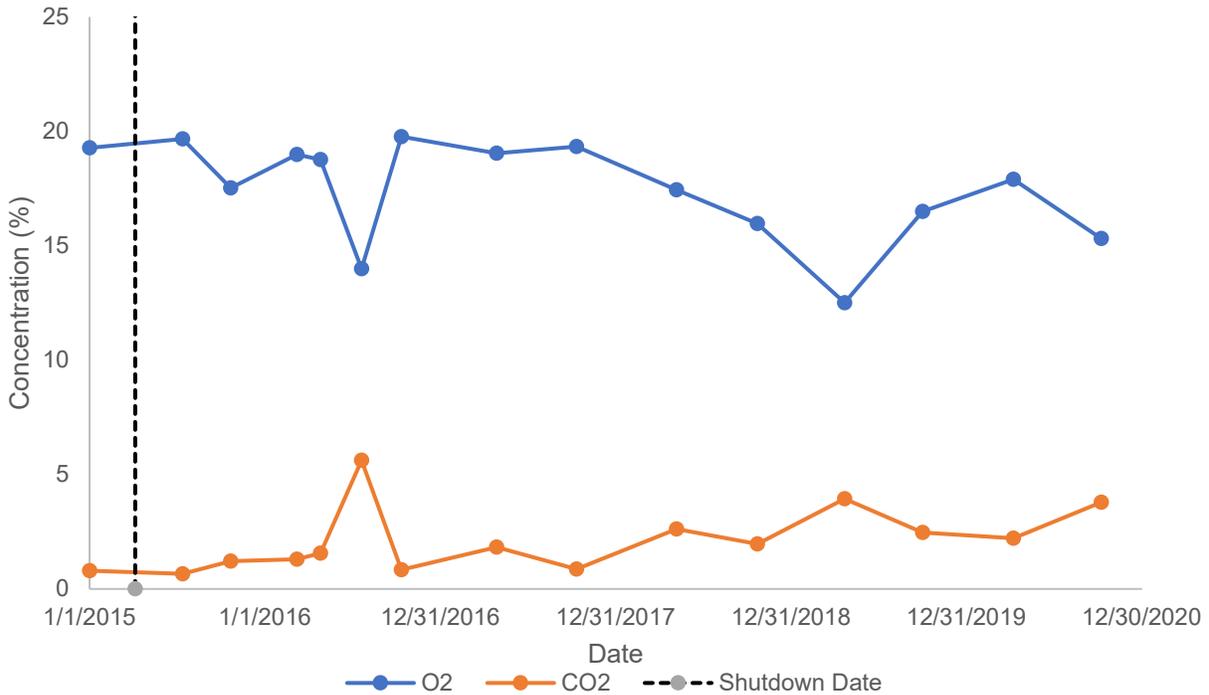
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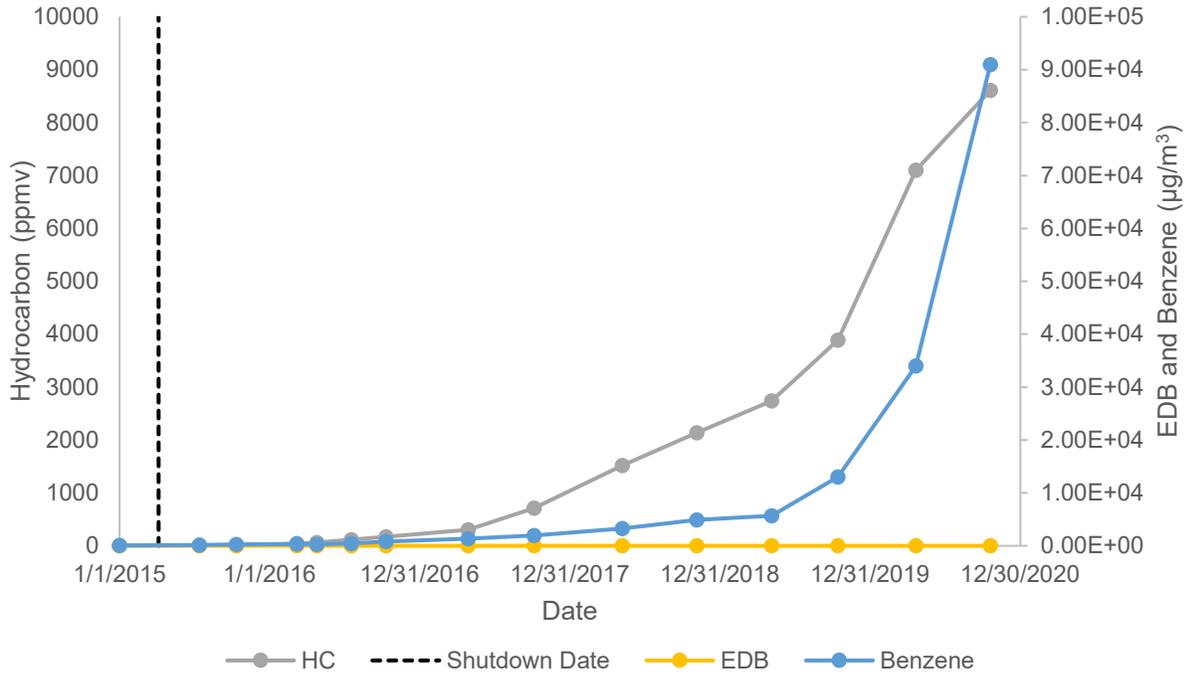
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



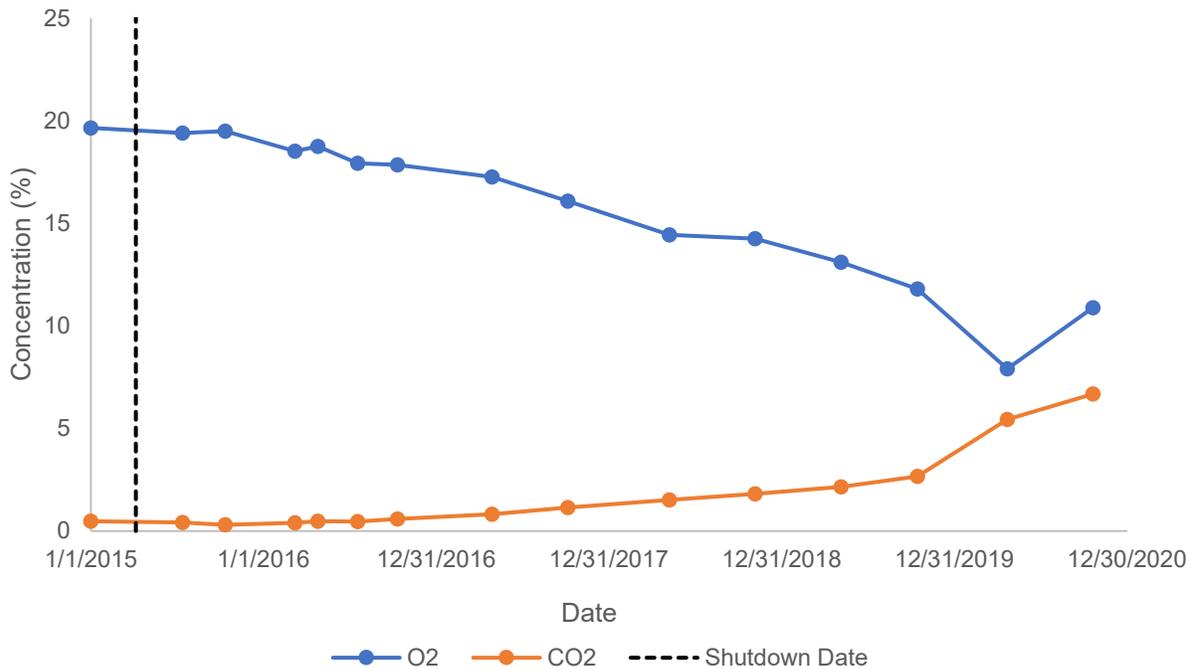
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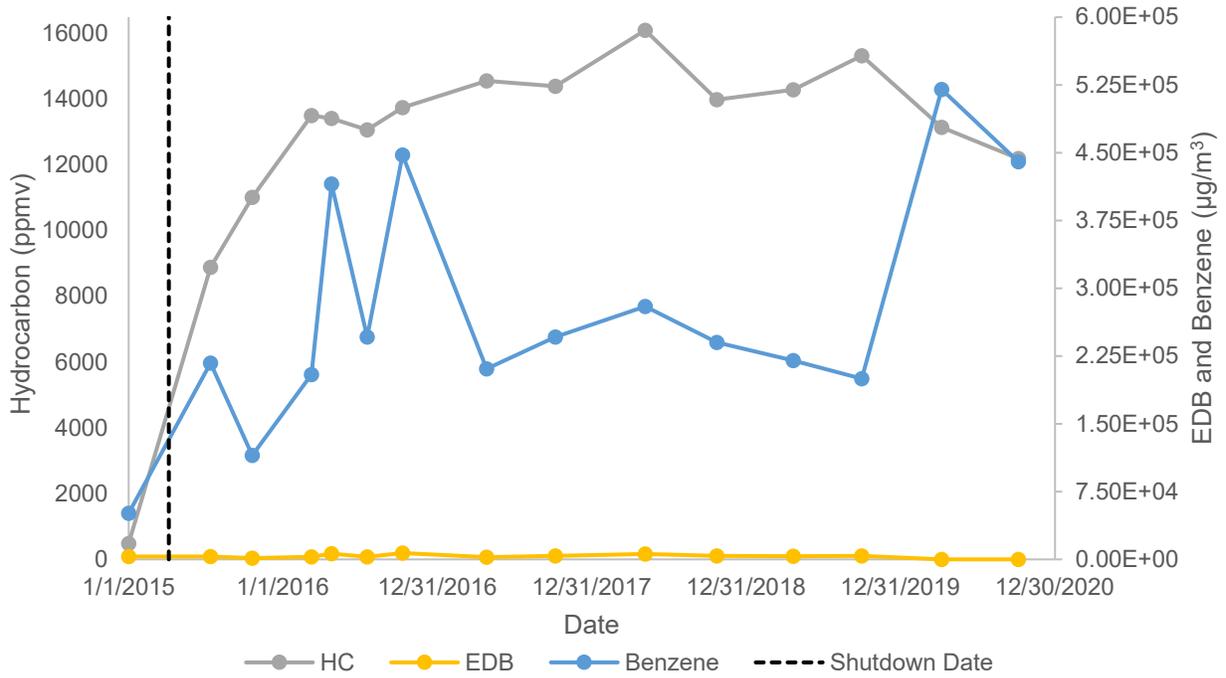
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



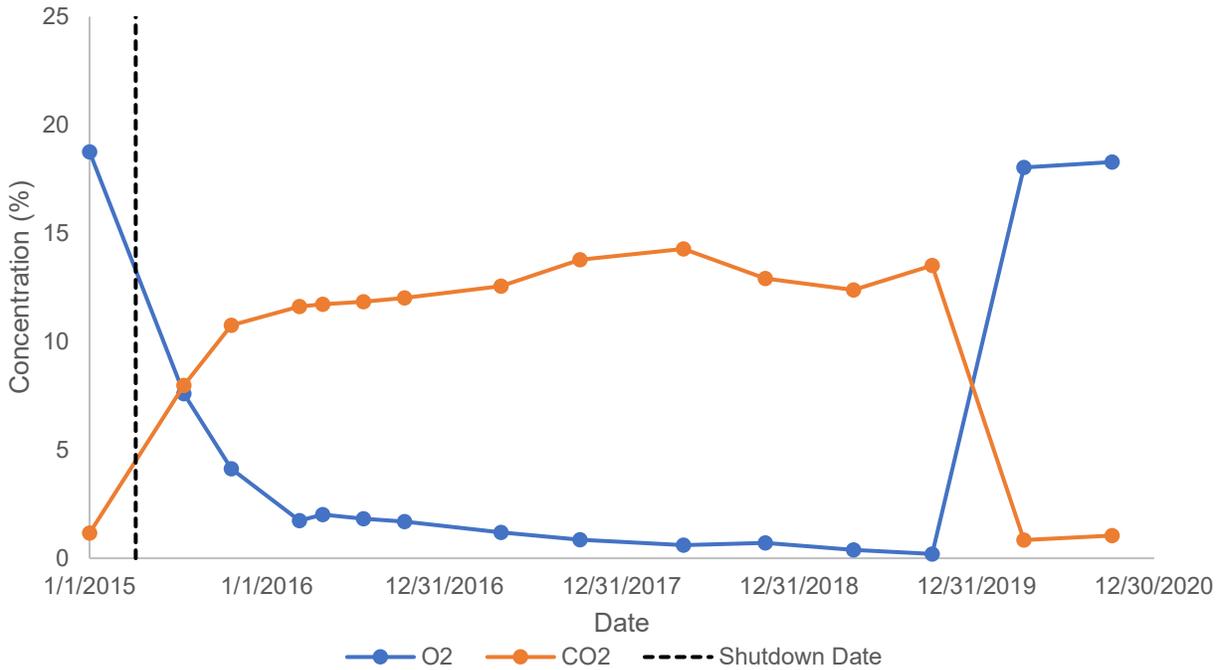
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**Oxygen and Carbon Dioxide Concentrations Over Time**



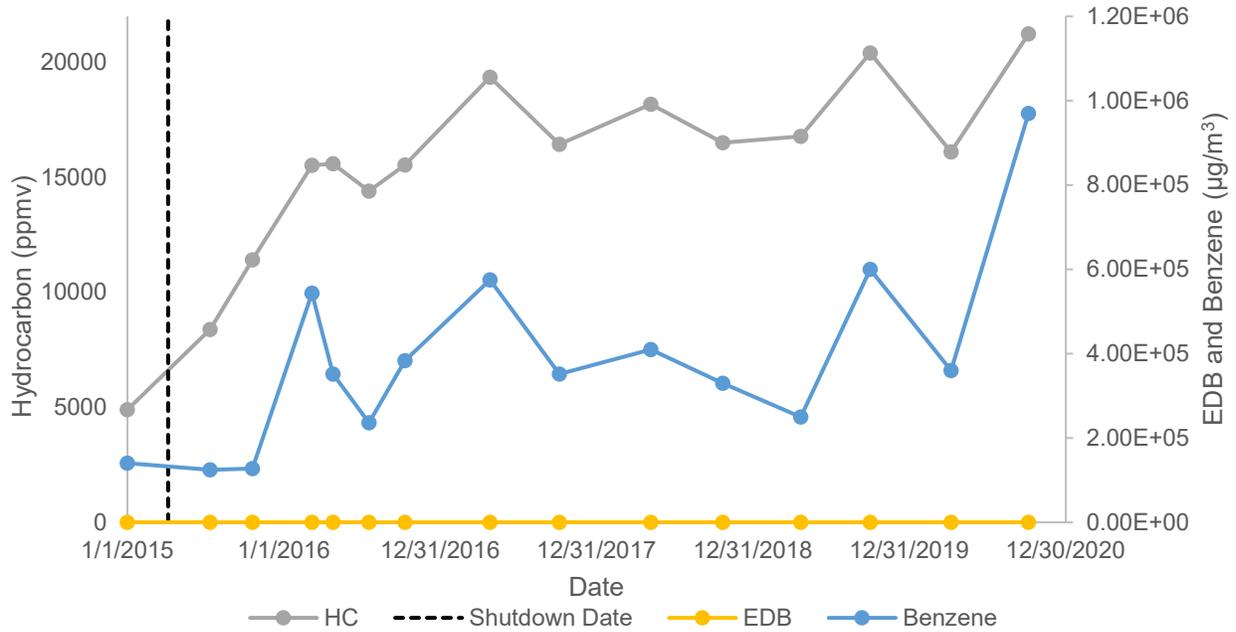
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



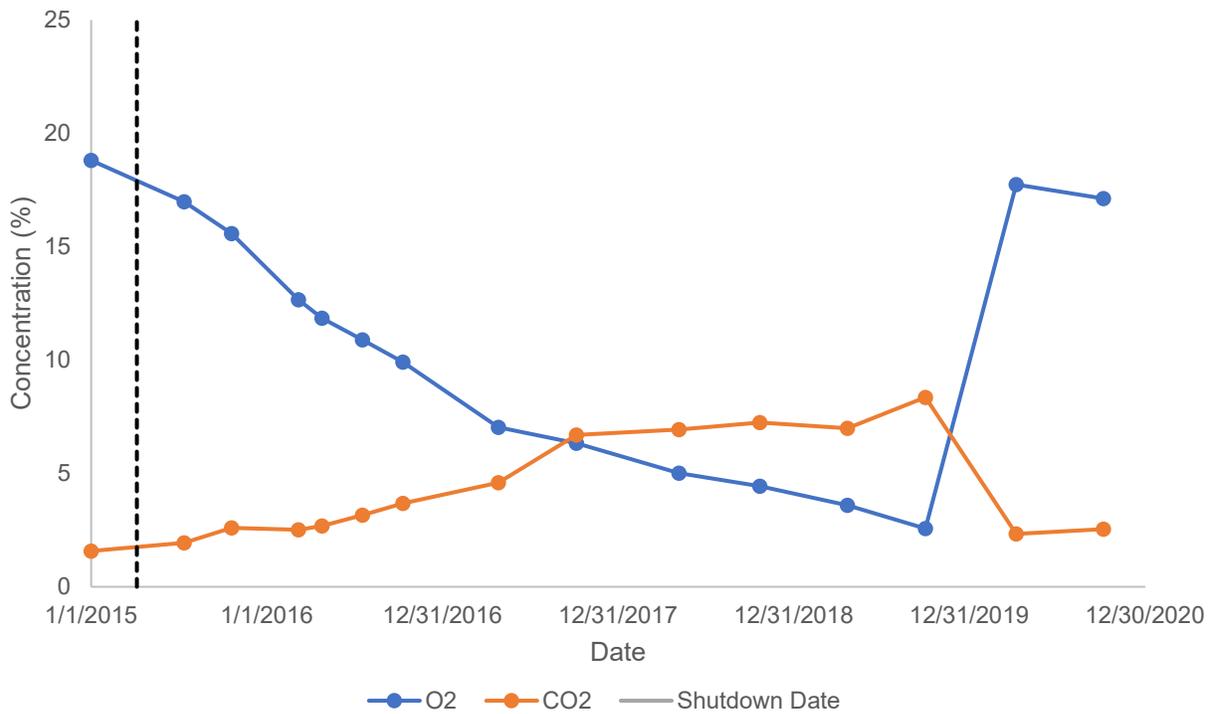
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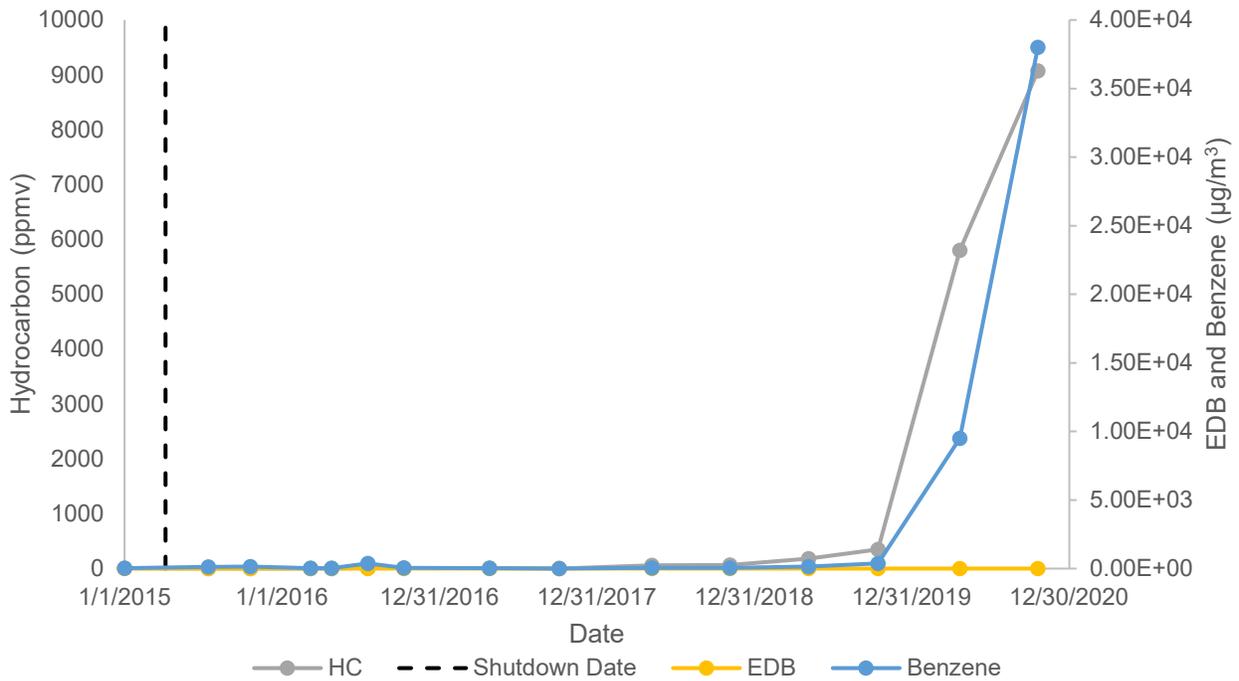
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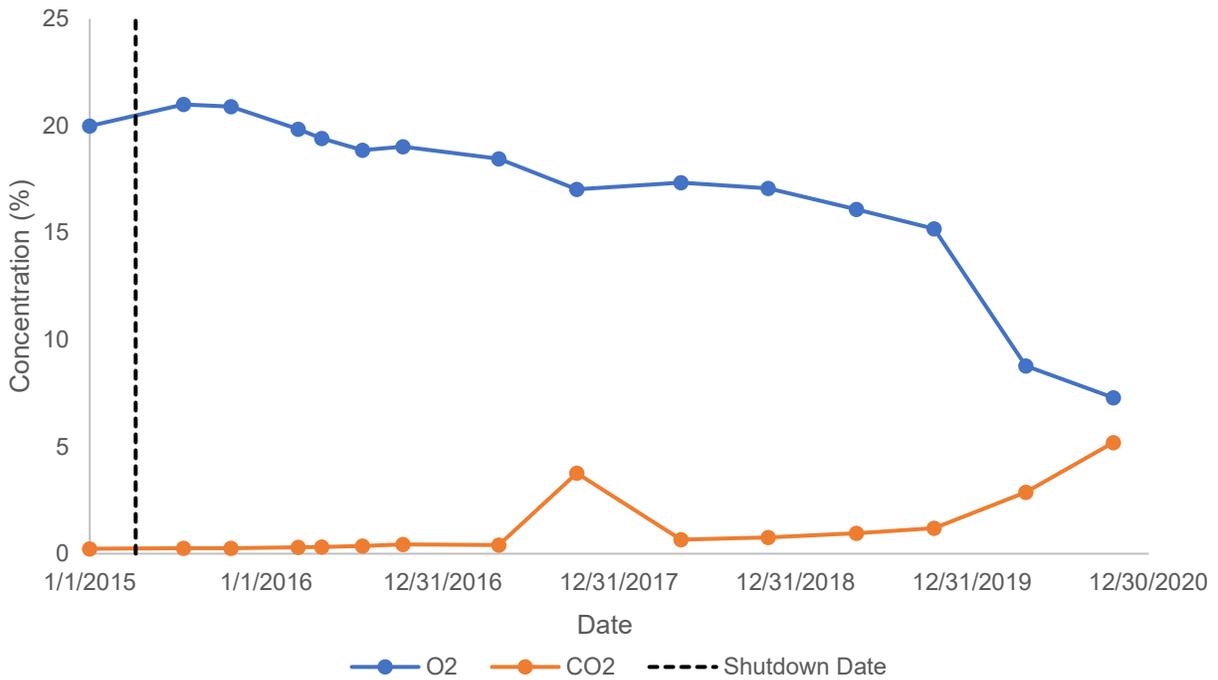
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**Oxygen and Carbon Dioxide Concentrations Over Time**



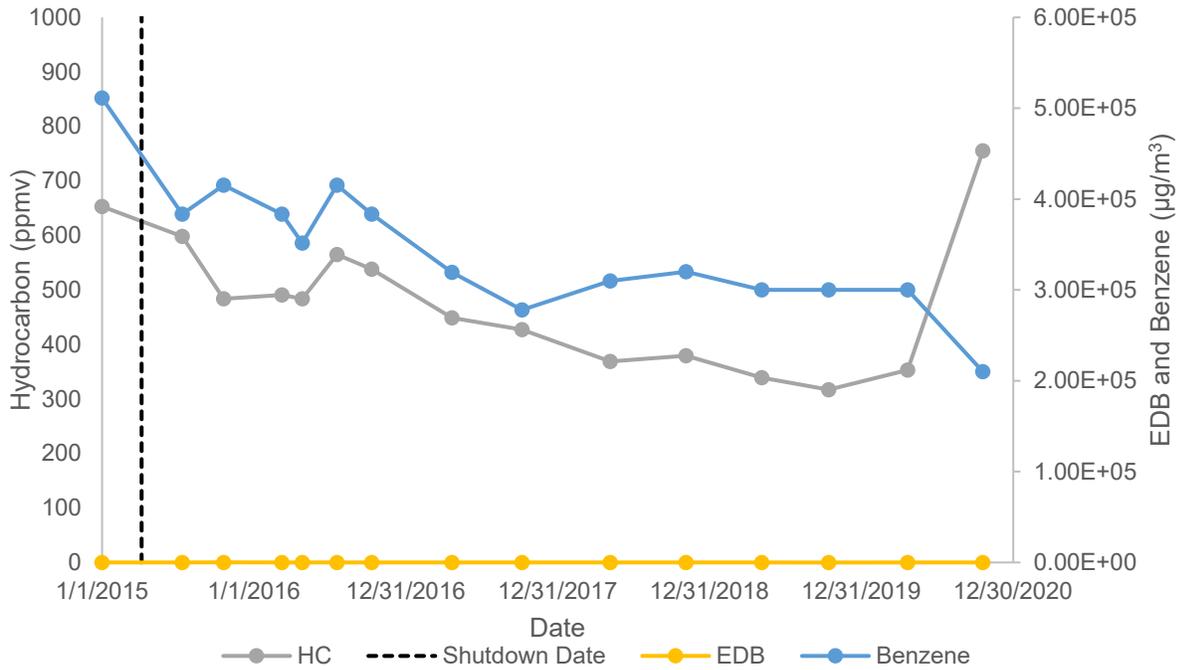
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



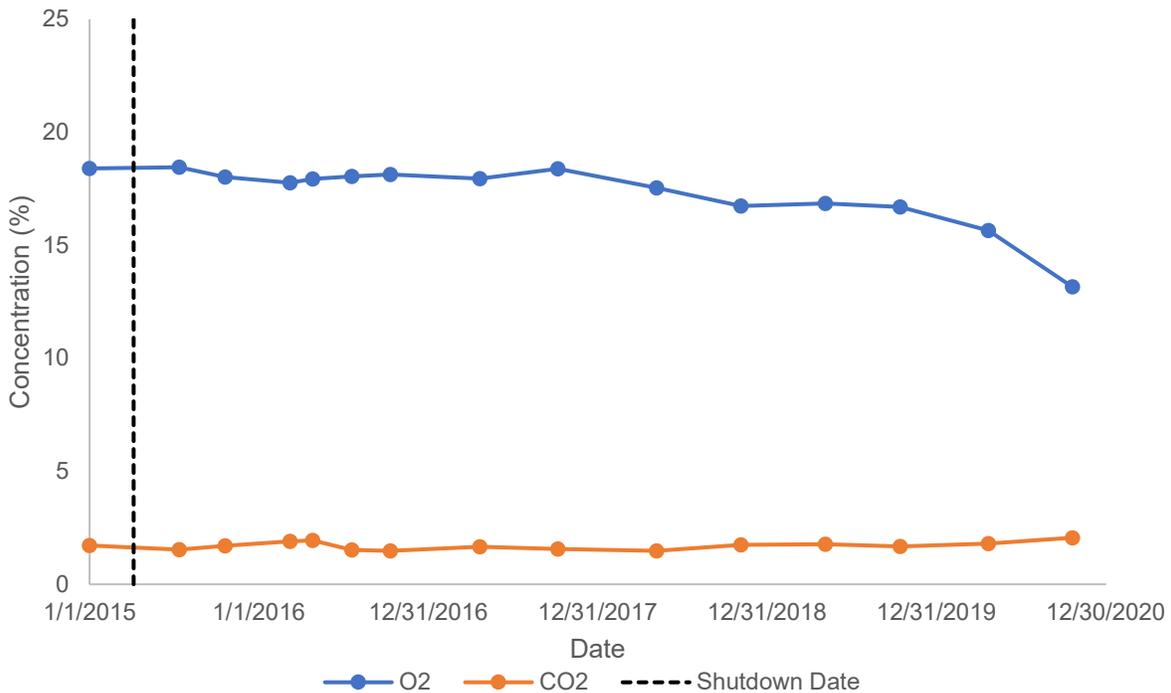
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**Oxygen and Carbon Dioxide Concentrations Over Time**



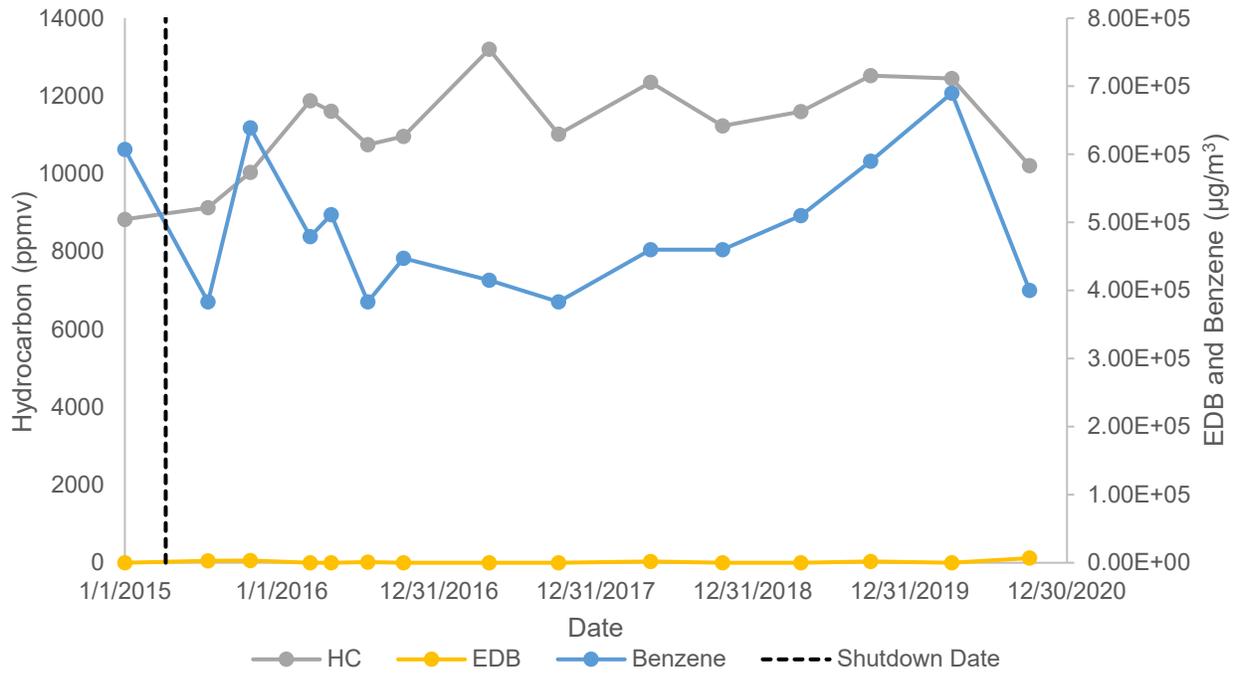
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



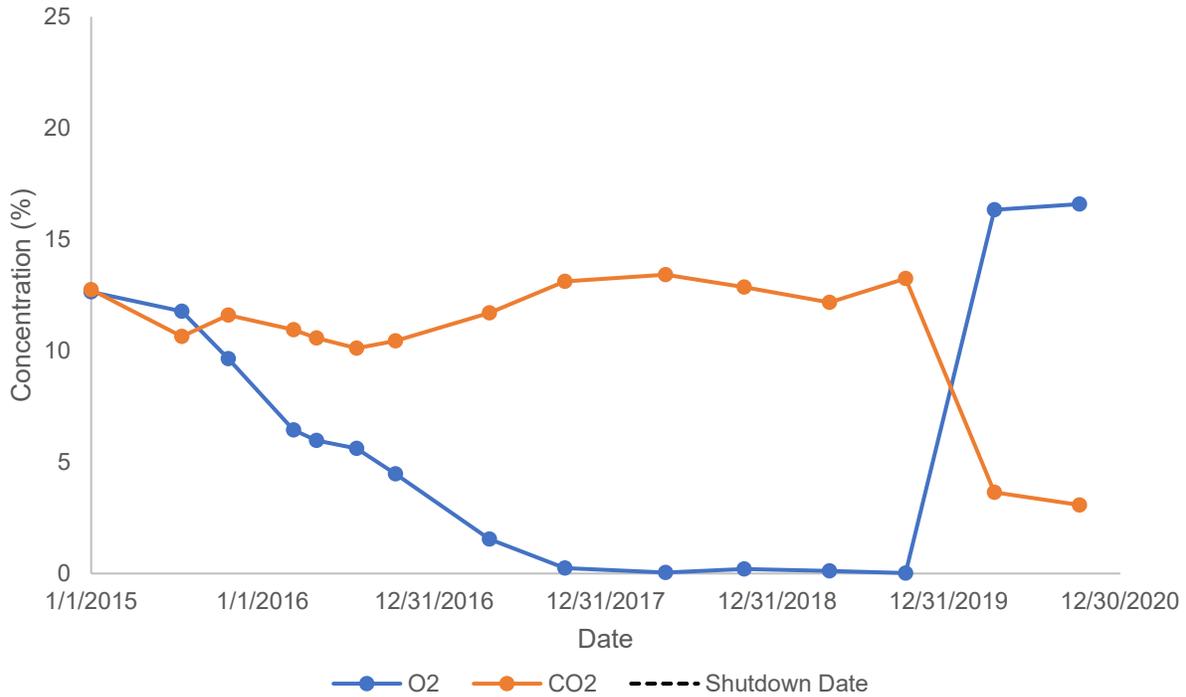
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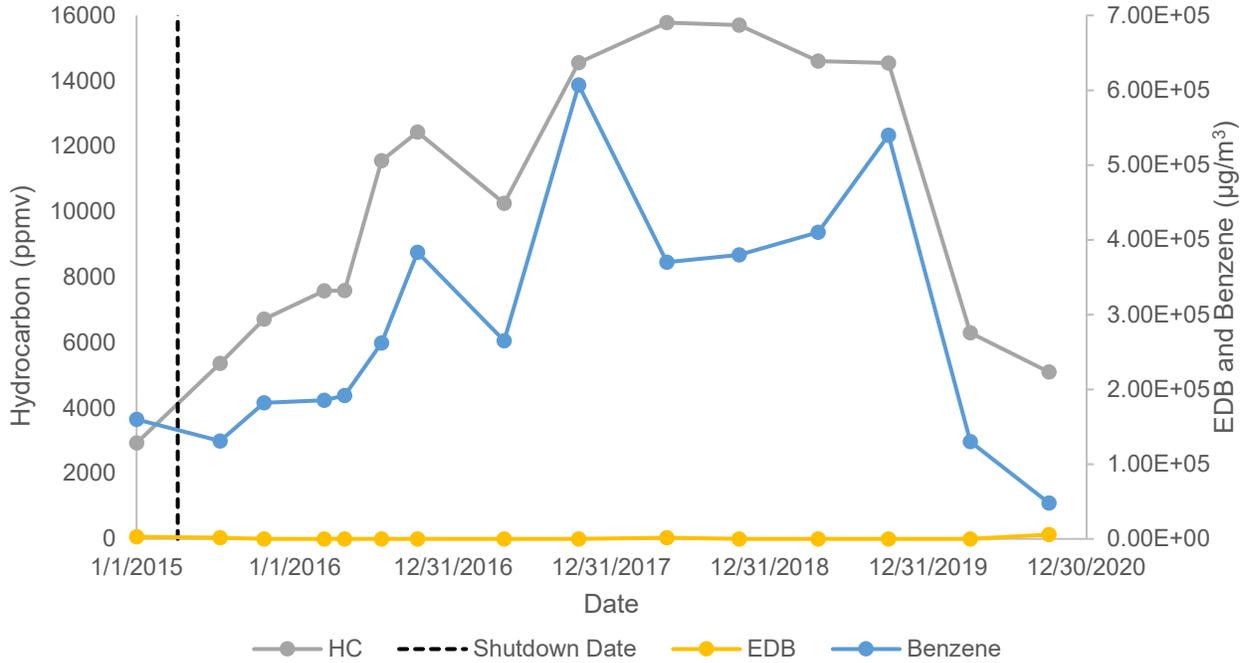
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



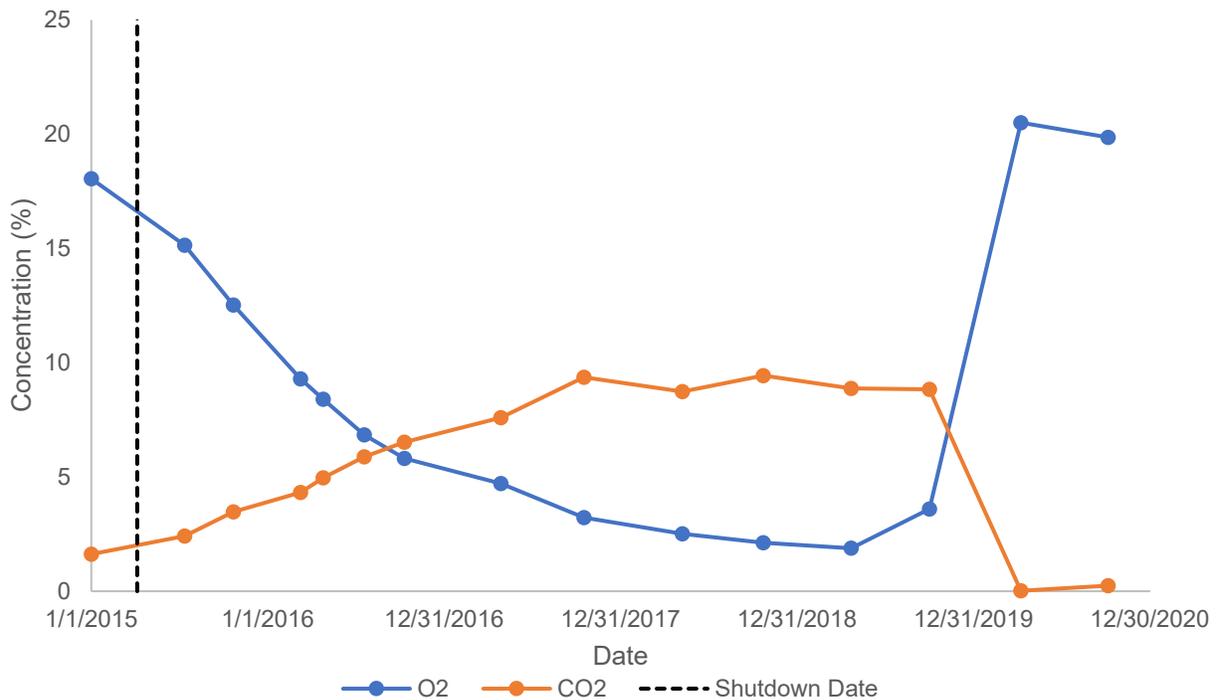
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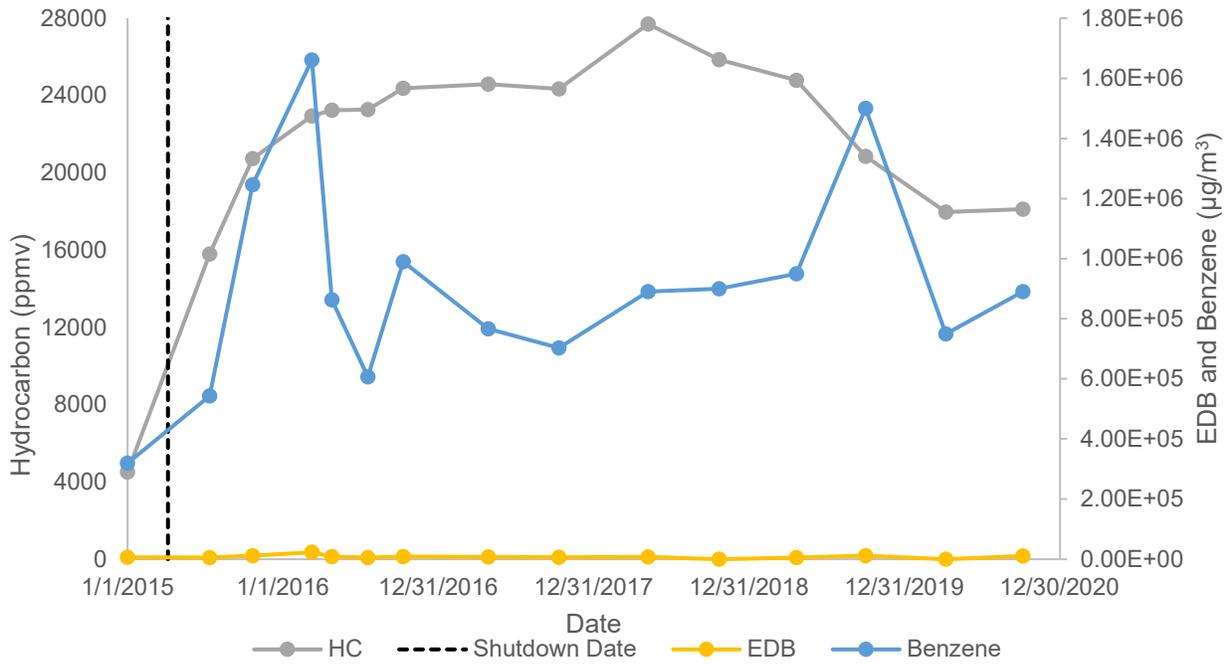
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



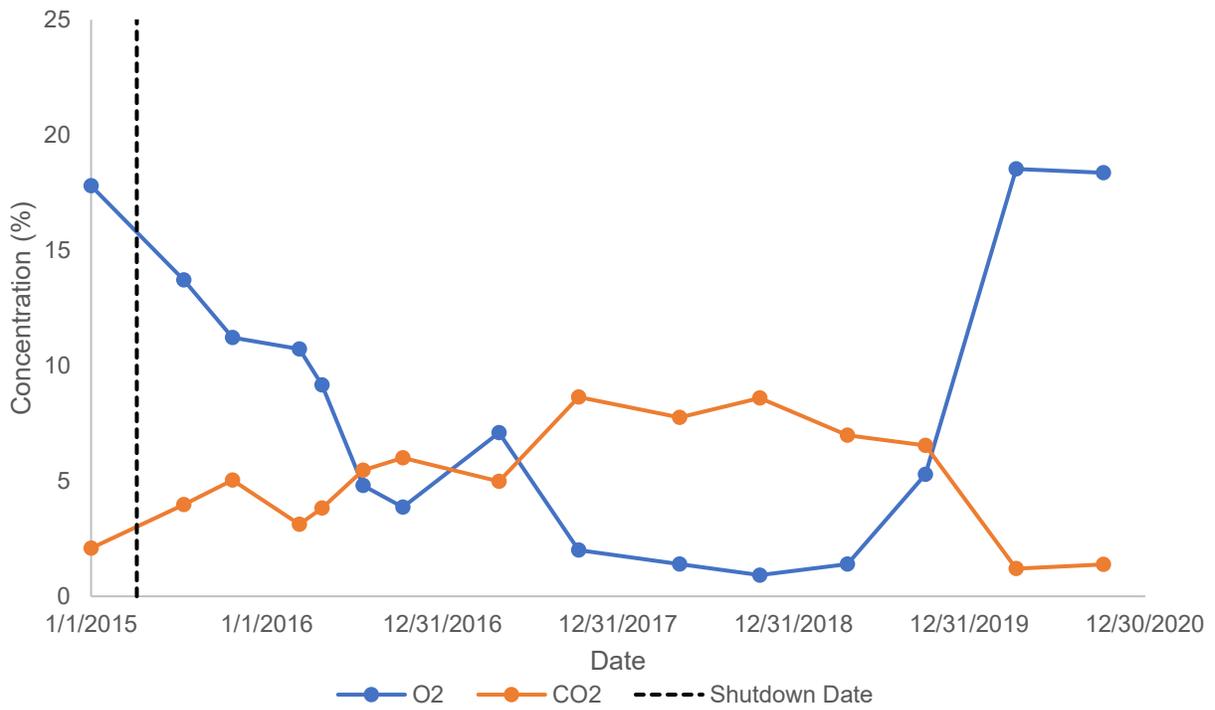
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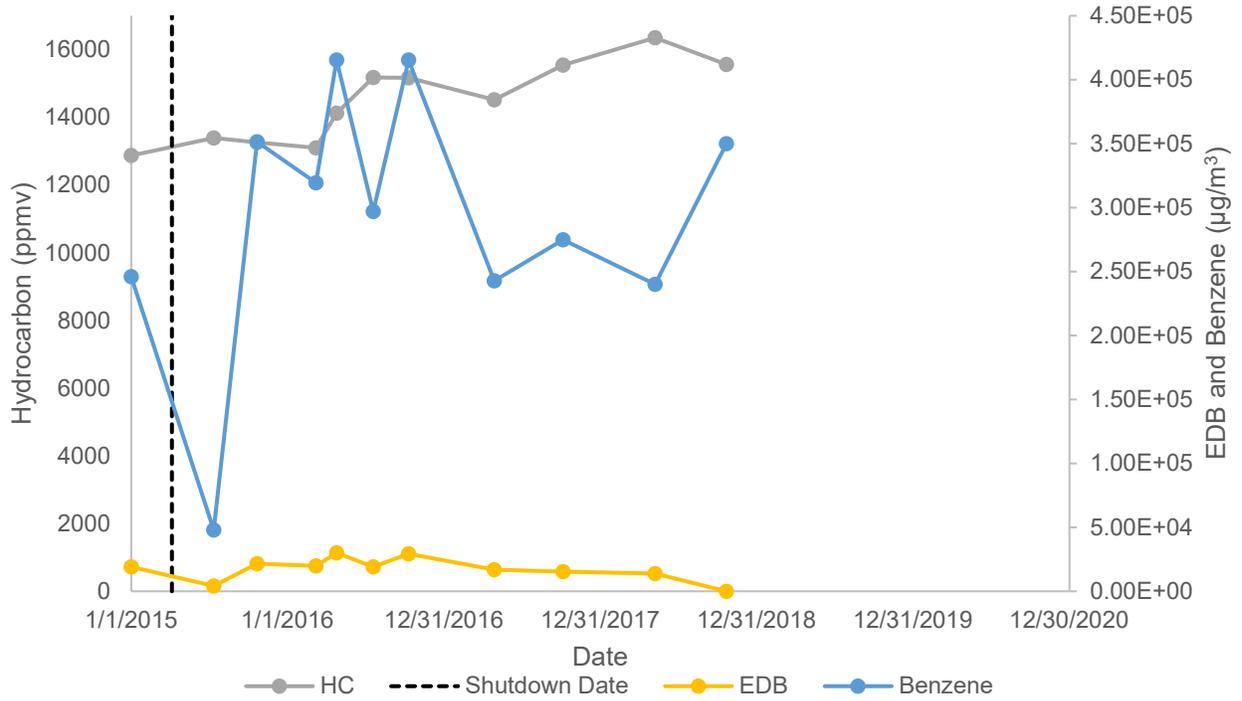
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



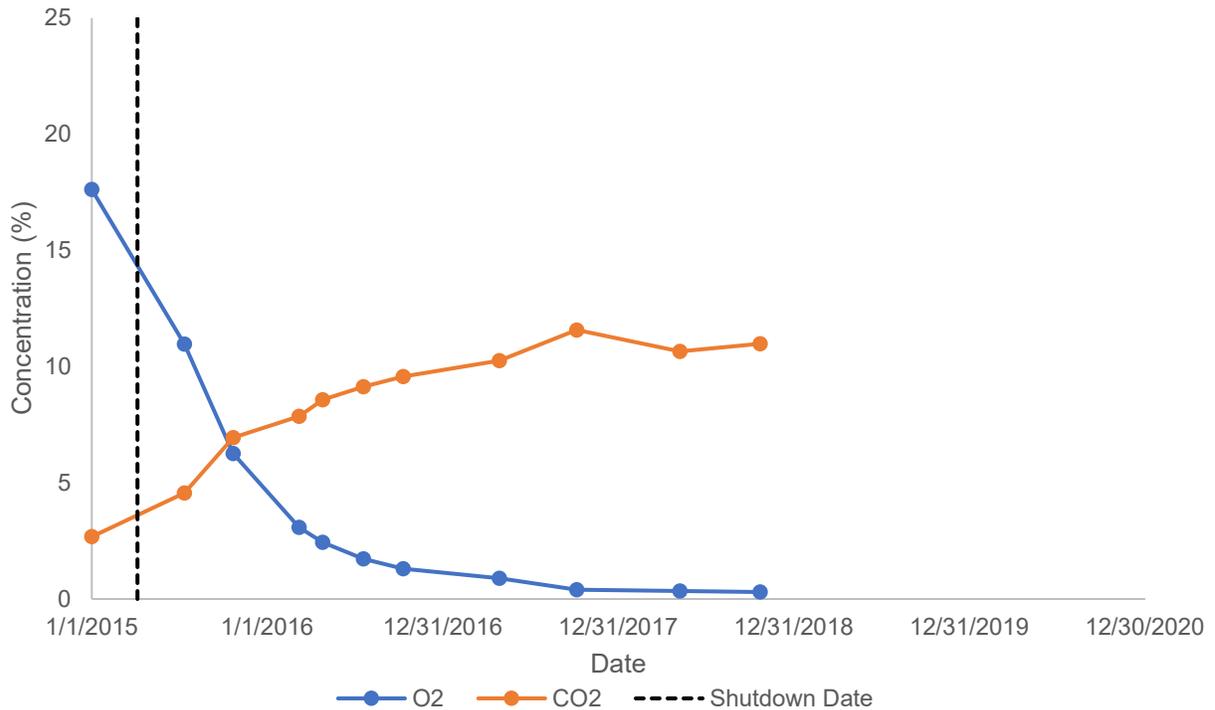
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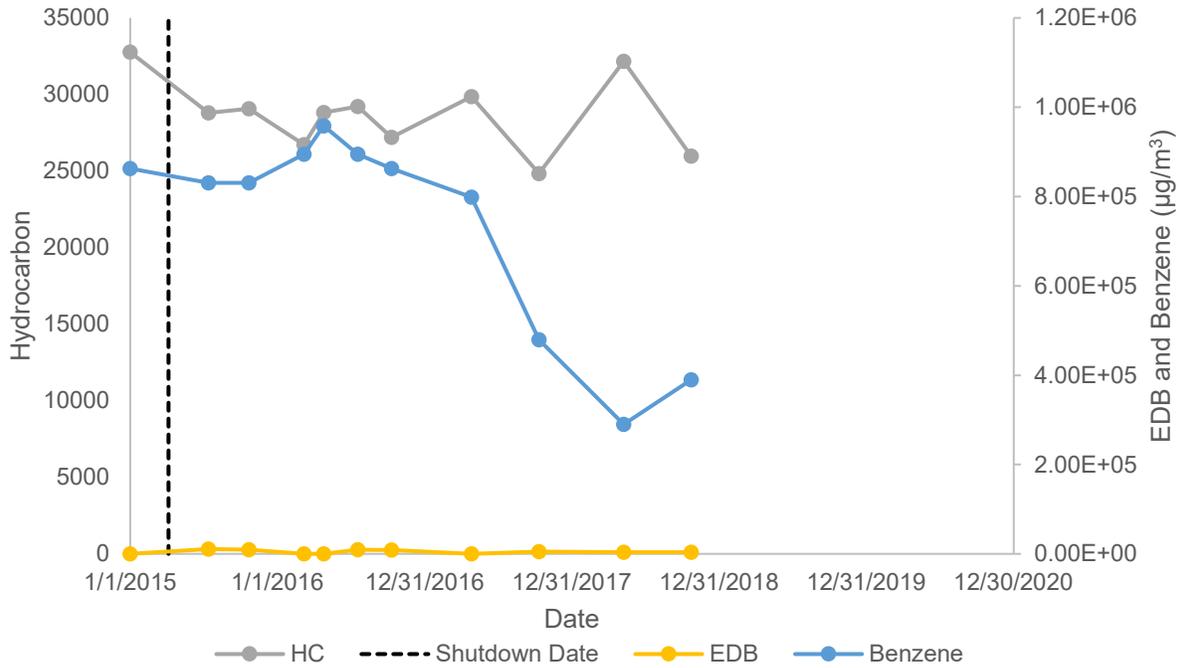
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



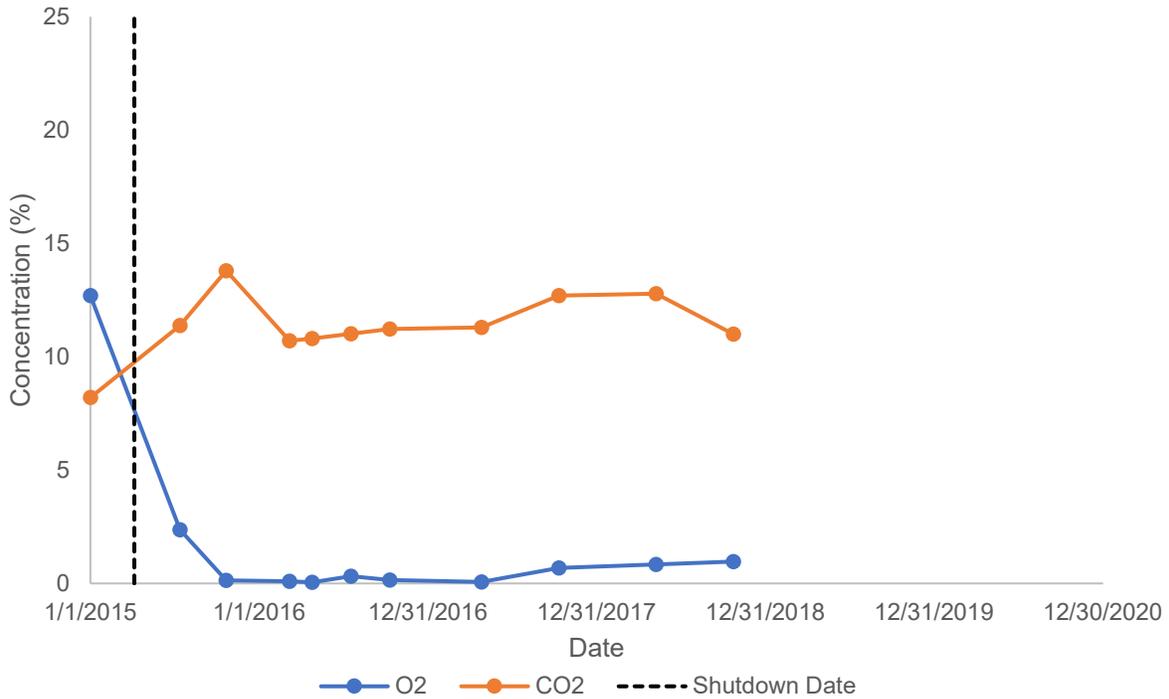
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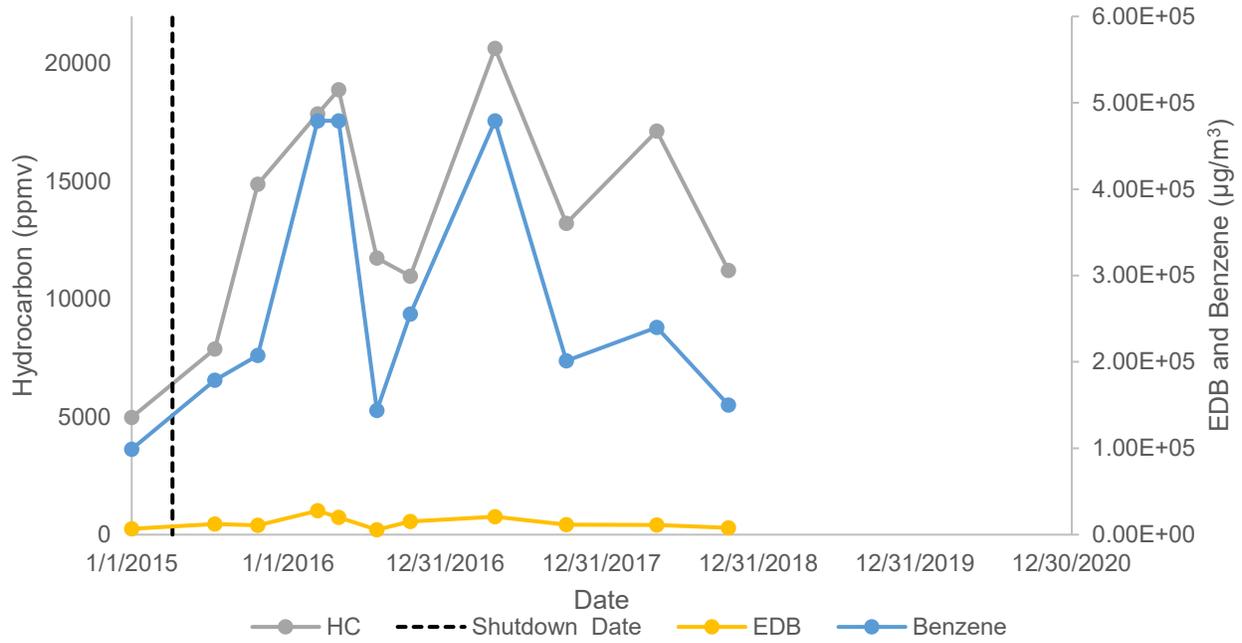
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



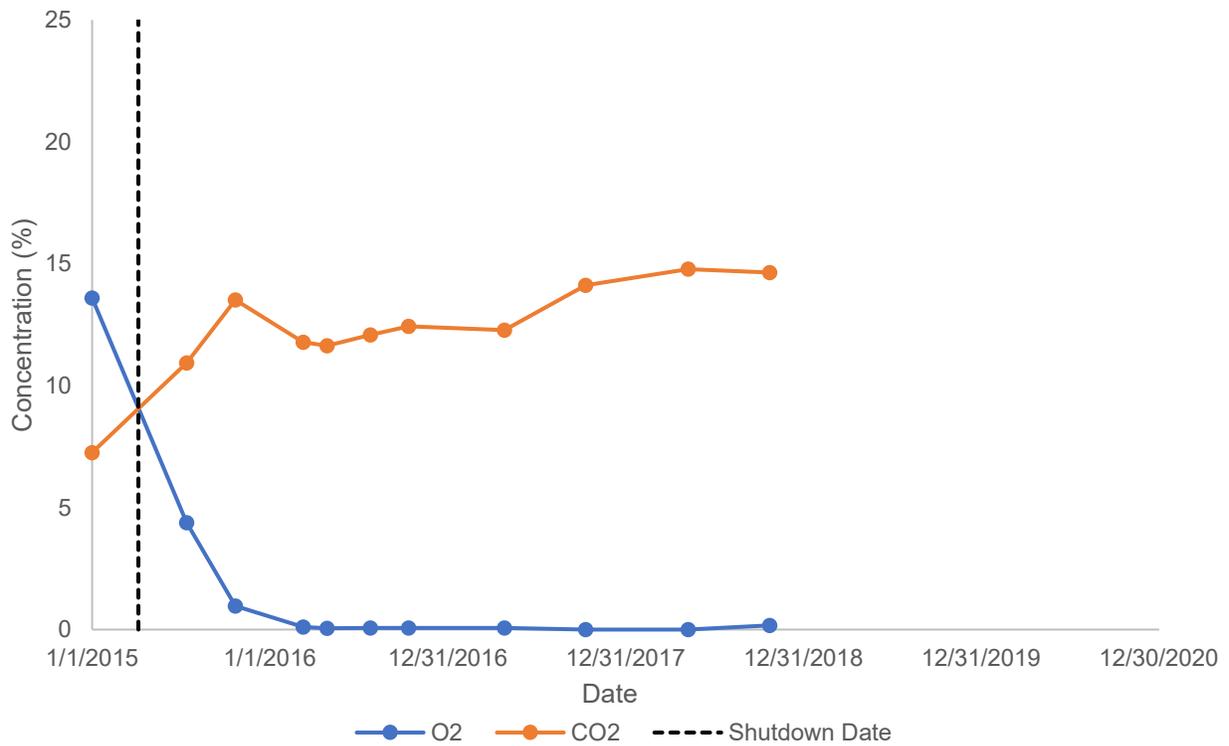
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**Oxygen and Carbon Dioxide Concentrations Over Time**



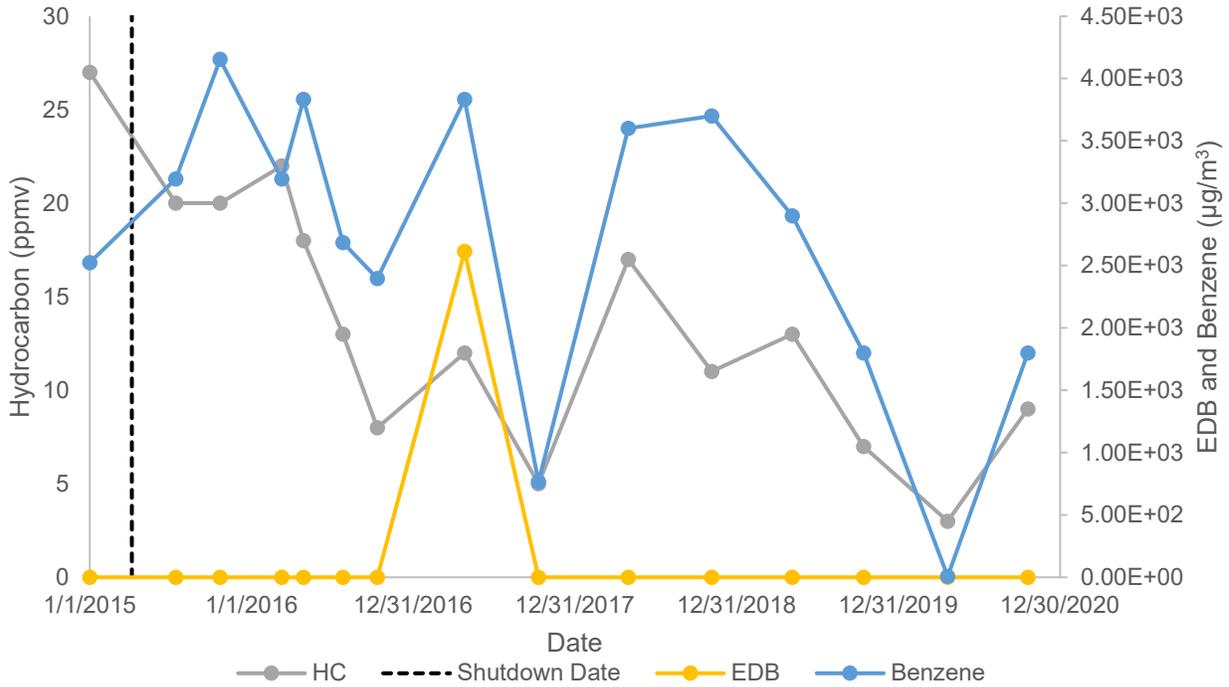
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



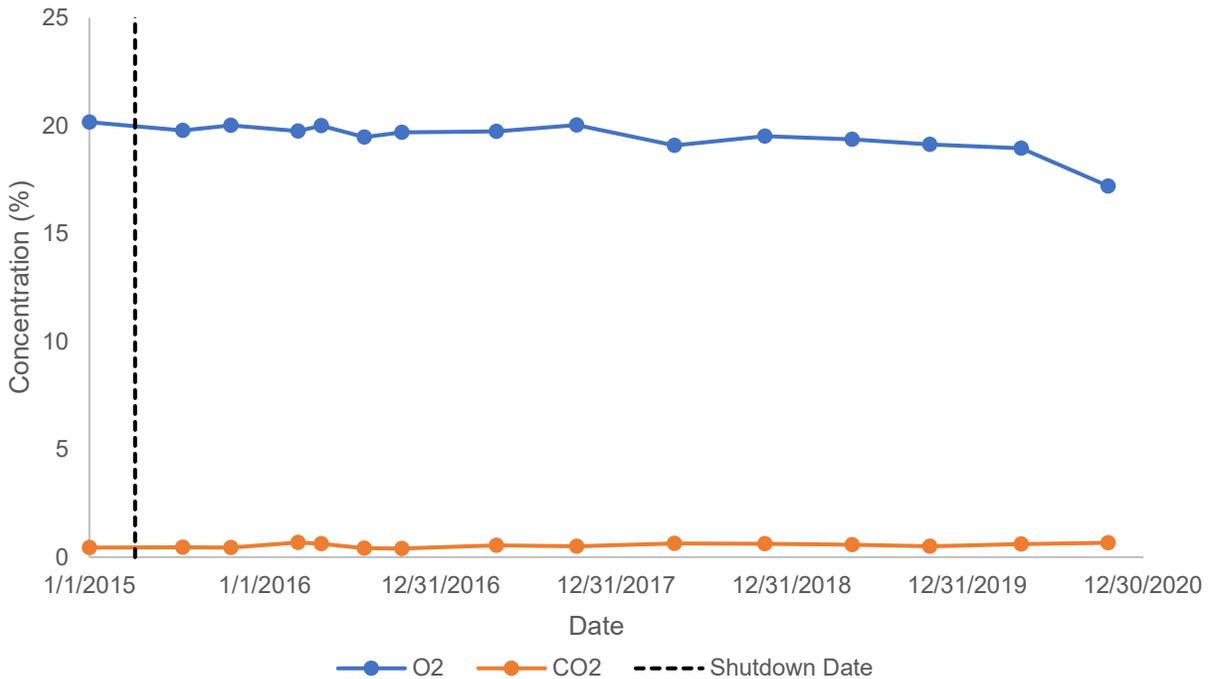
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**Oxygen and Carbon Dioxide Concentrations Over Time**



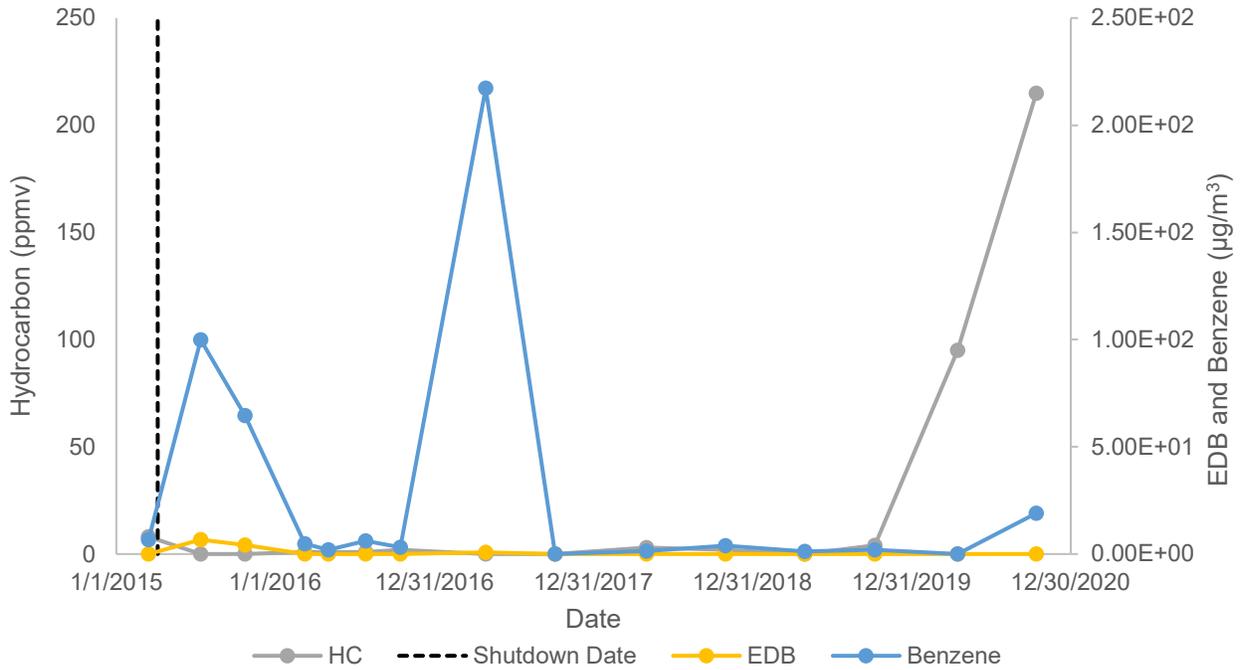
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



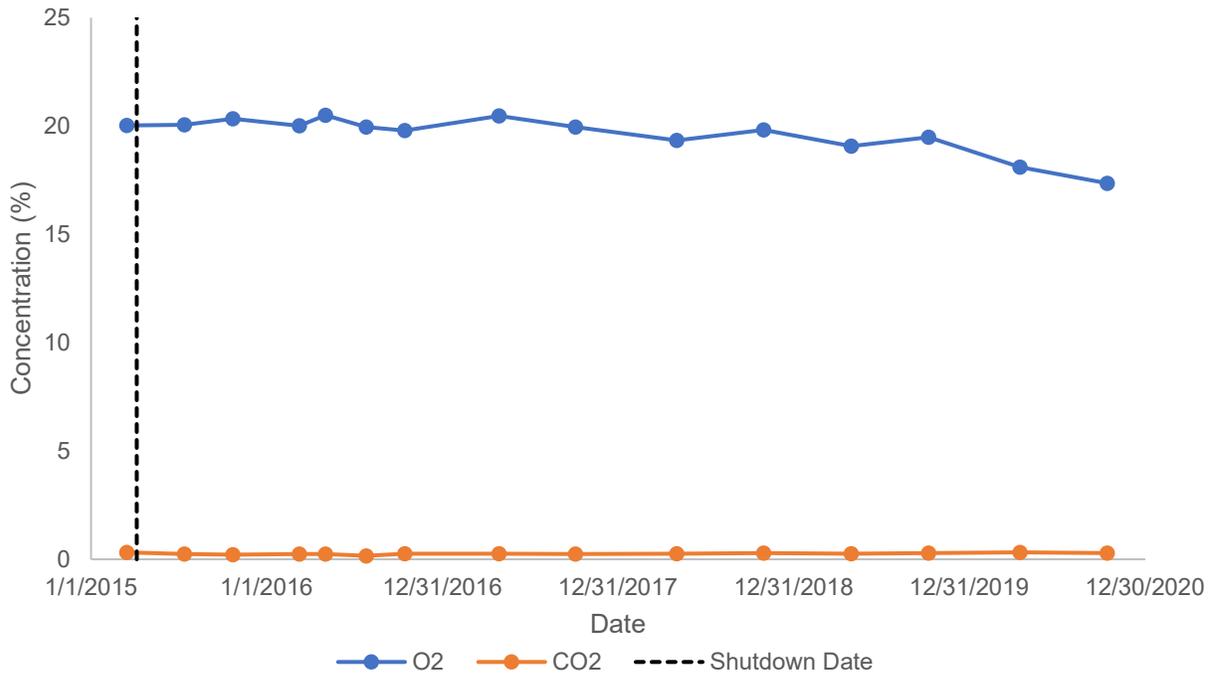
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**Oxygen and Carbon Dioxide Concentrations Over Time**



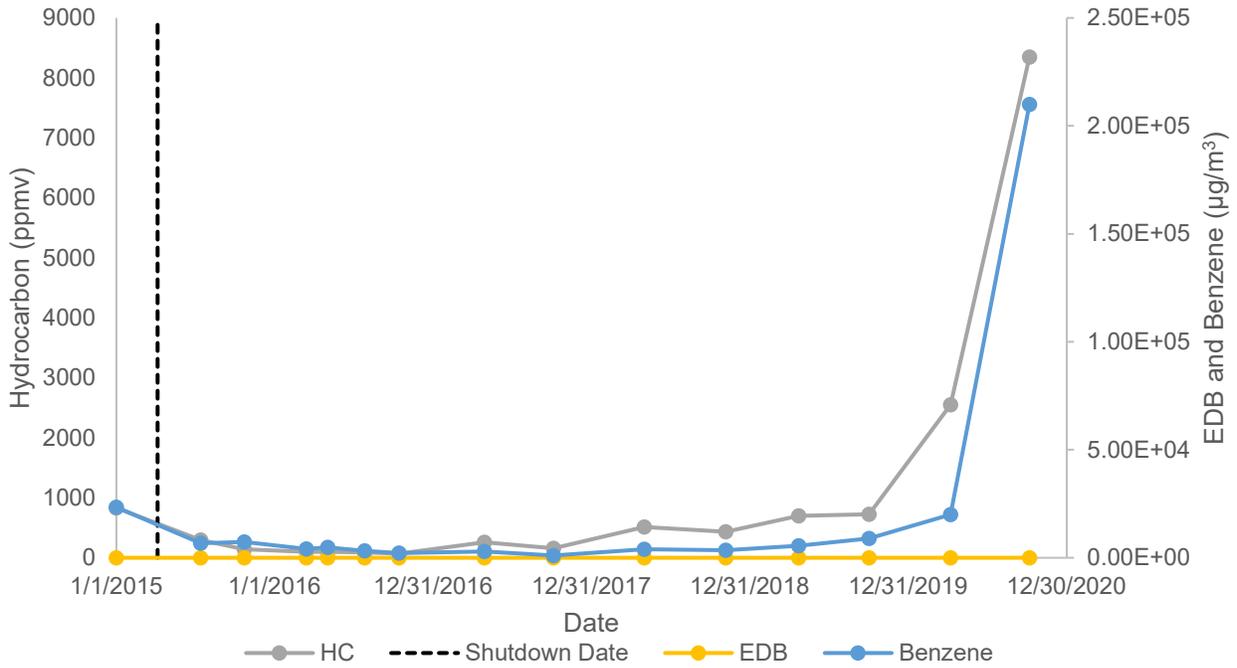
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



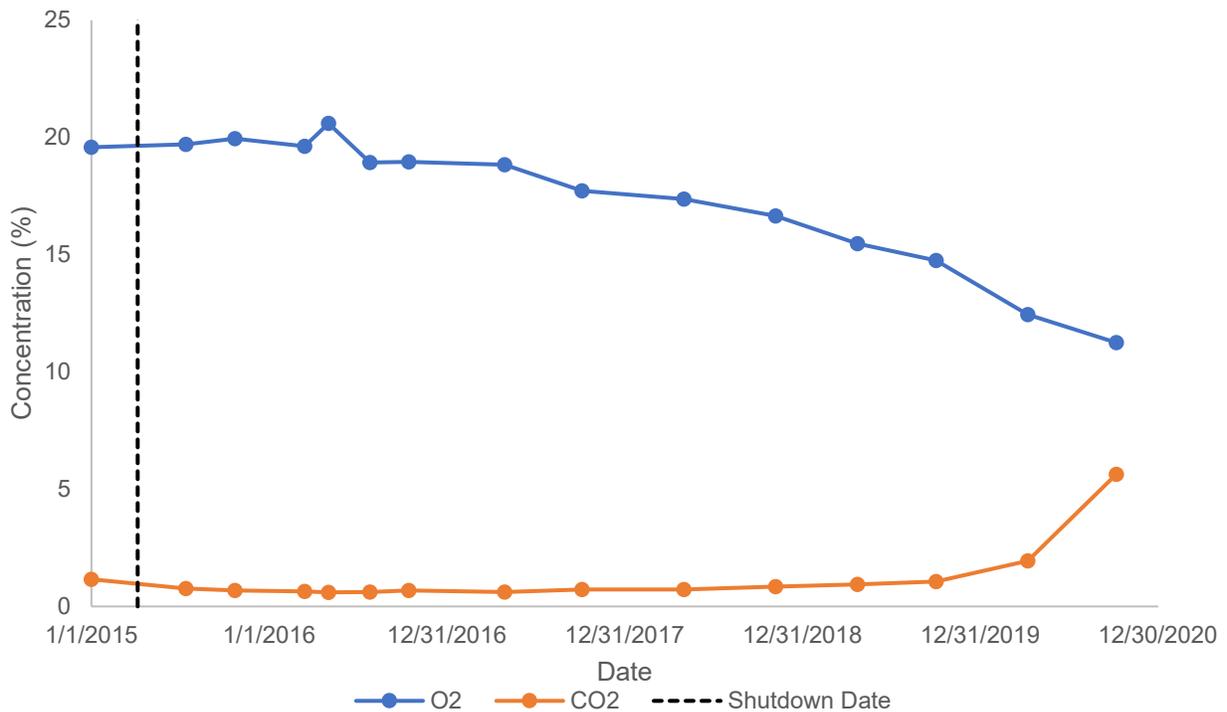
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**Oxygen and Carbon Dioxide Concentrations Over Time**



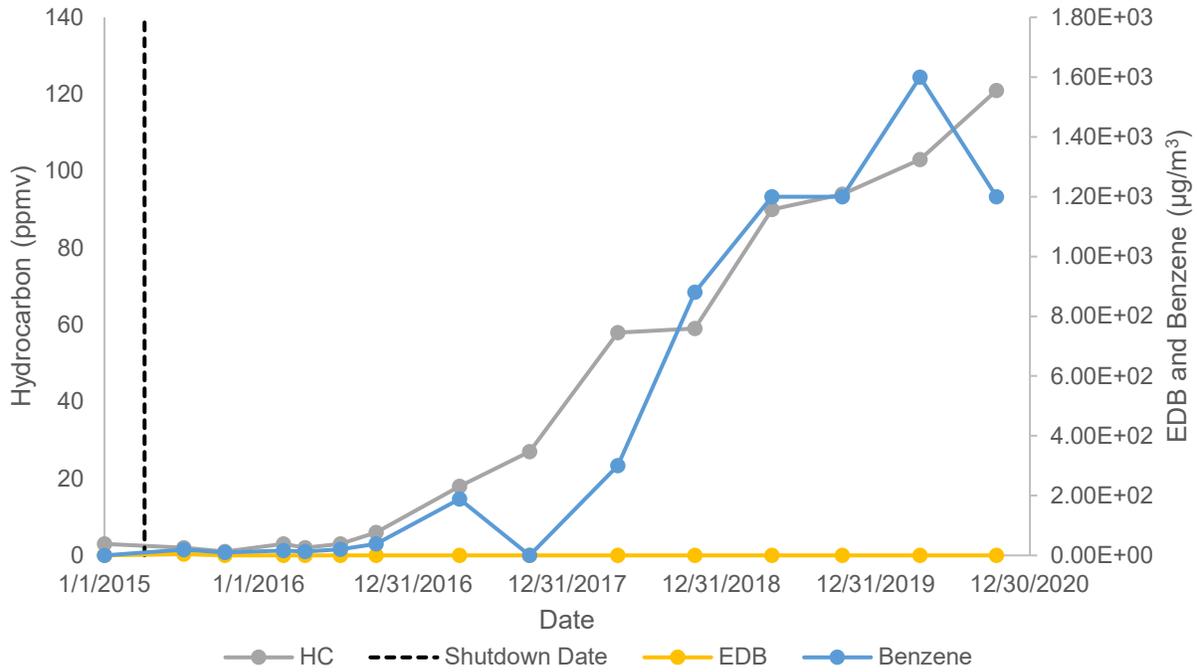
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



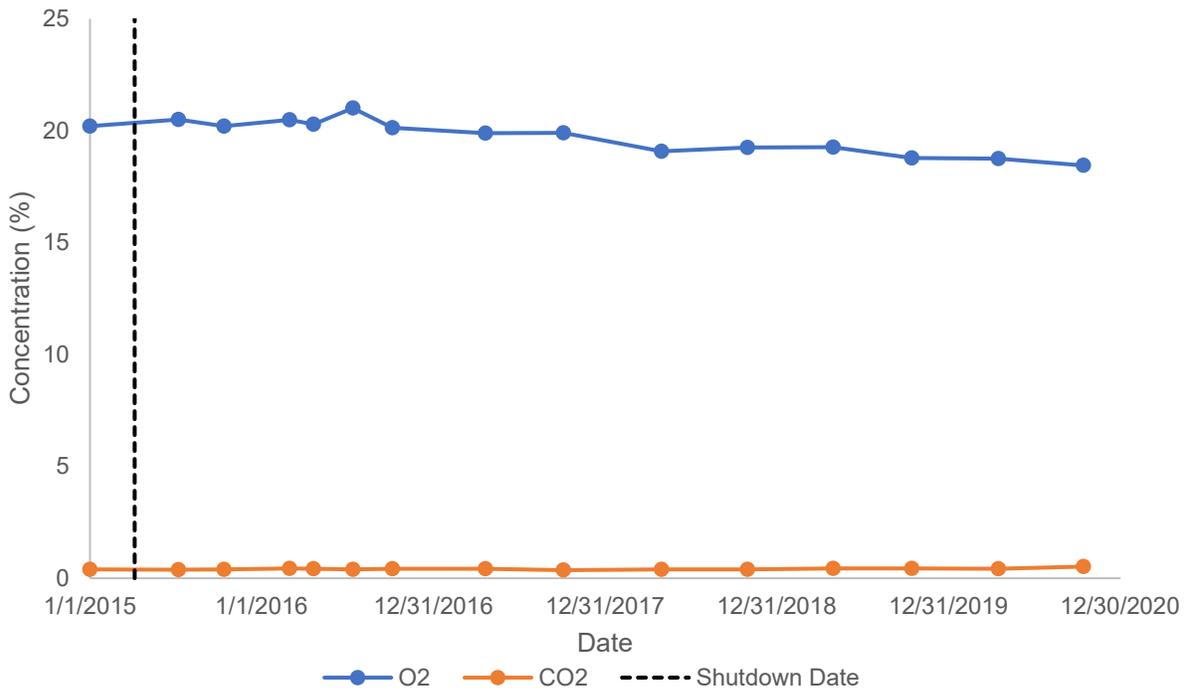
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**Oxygen and Carbon Dioxide Concentrations Over Time**



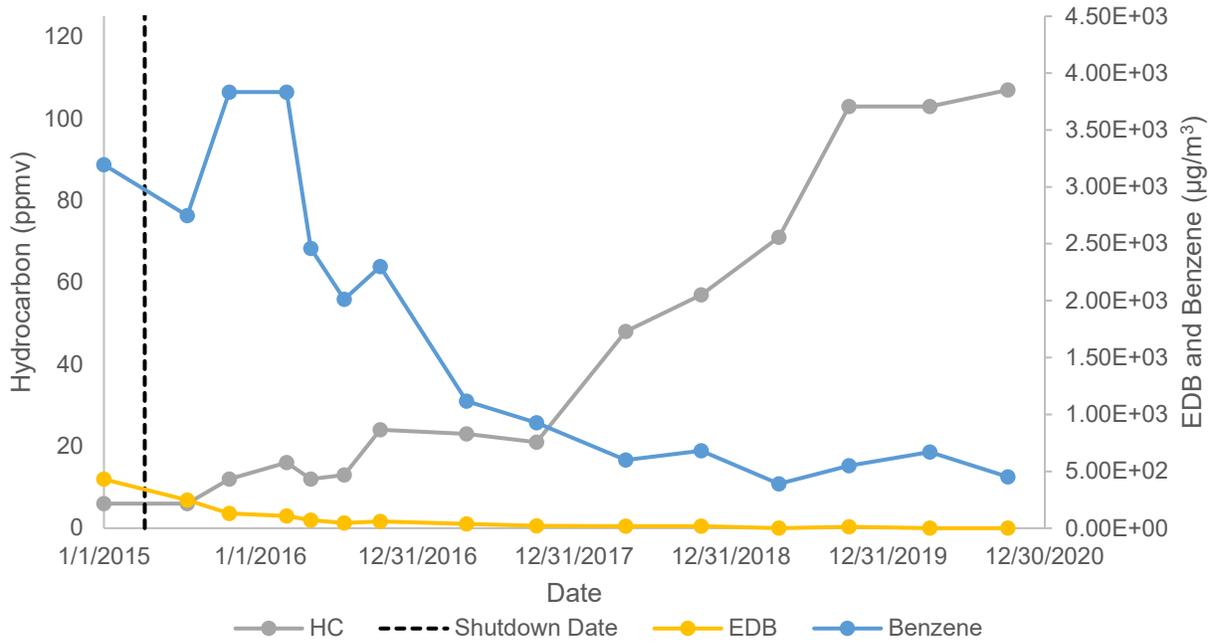
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



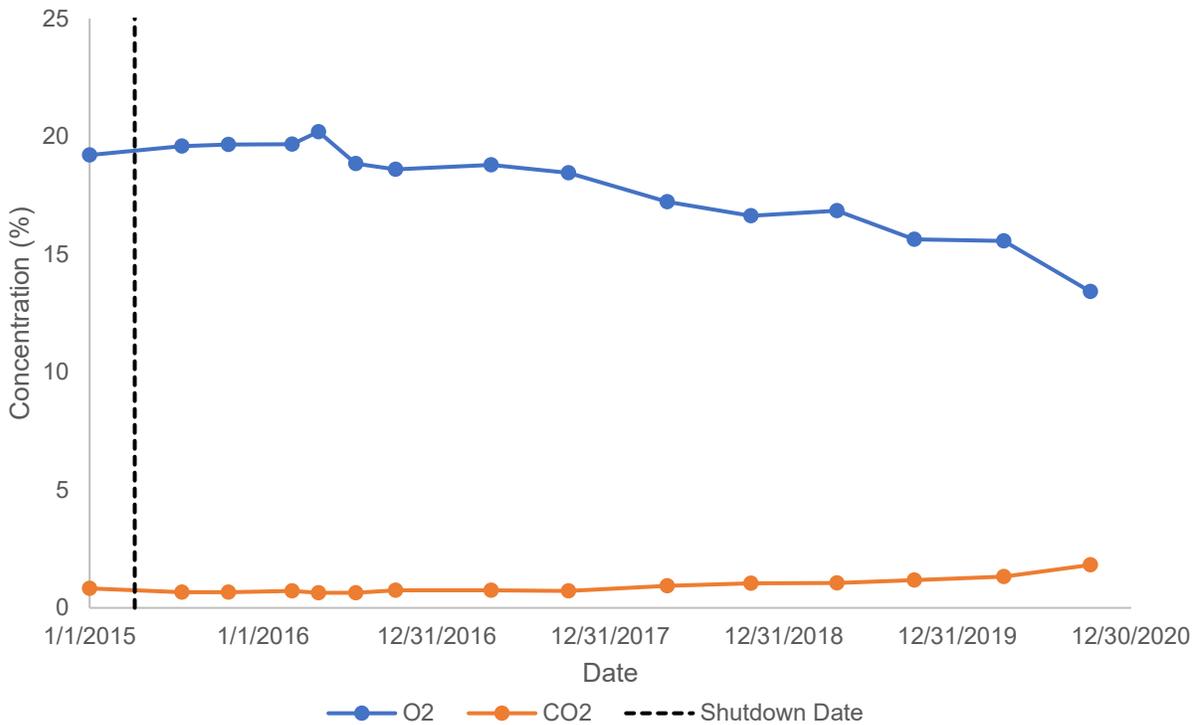
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**Oxygen and Carbon Dioxide Concentrations Over Time**



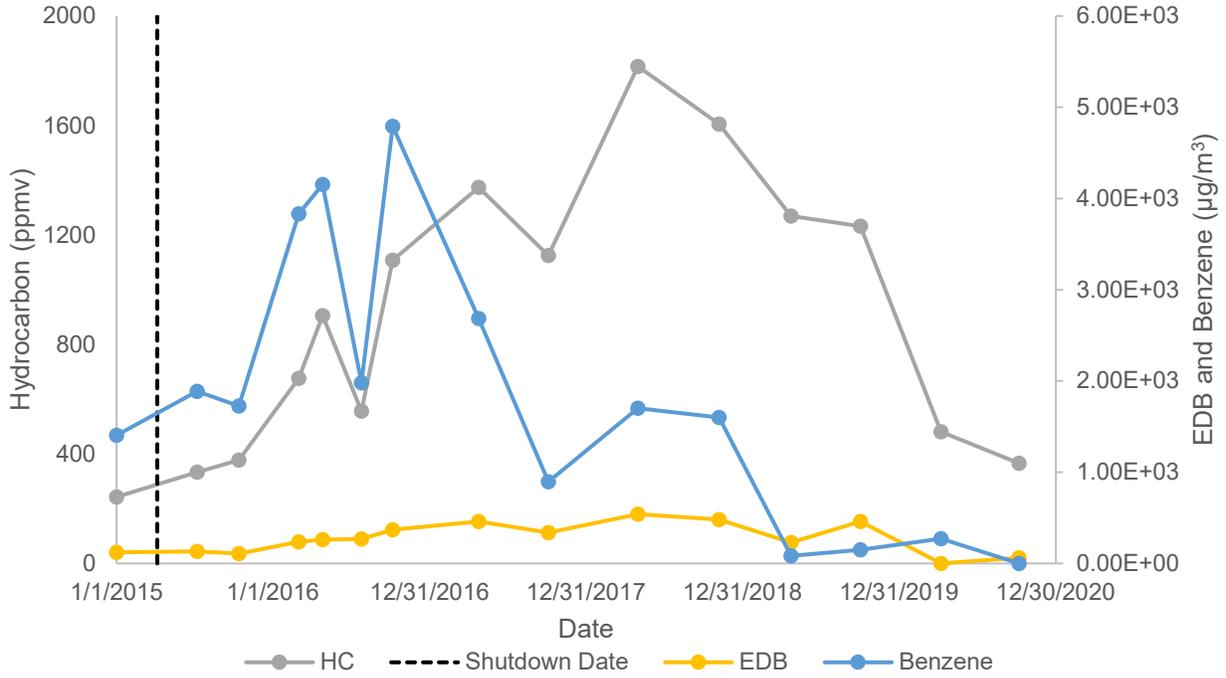
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



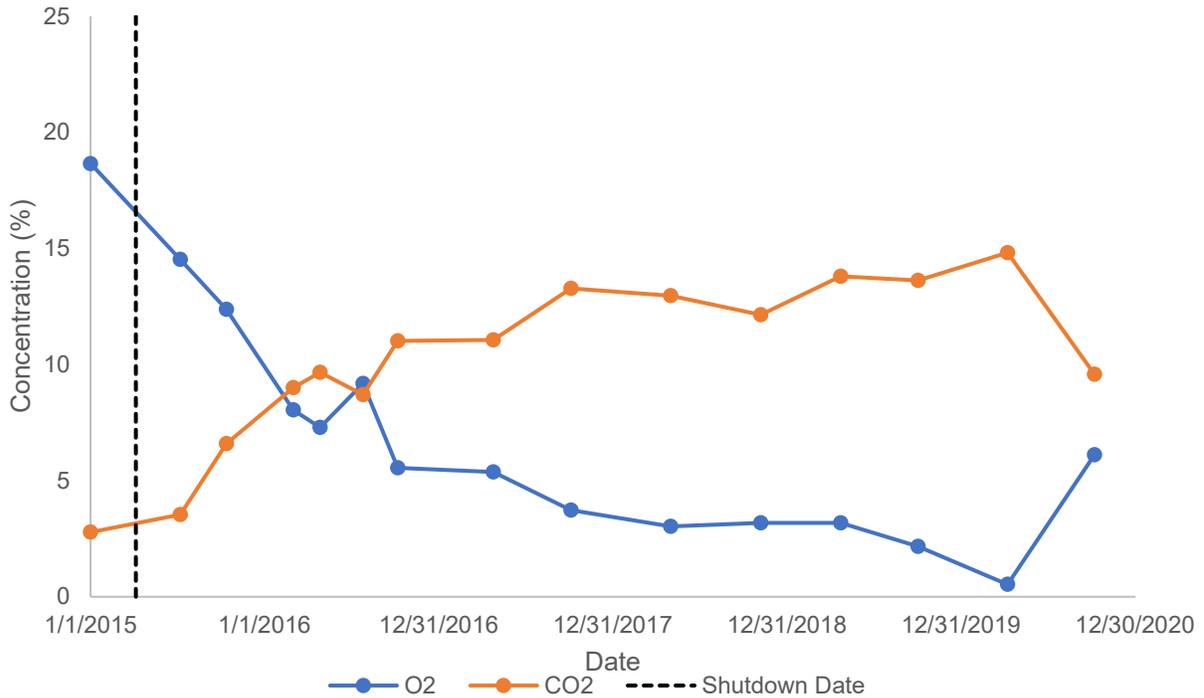
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**Oxygen and Carbon Dioxide Concentrations Over Time**



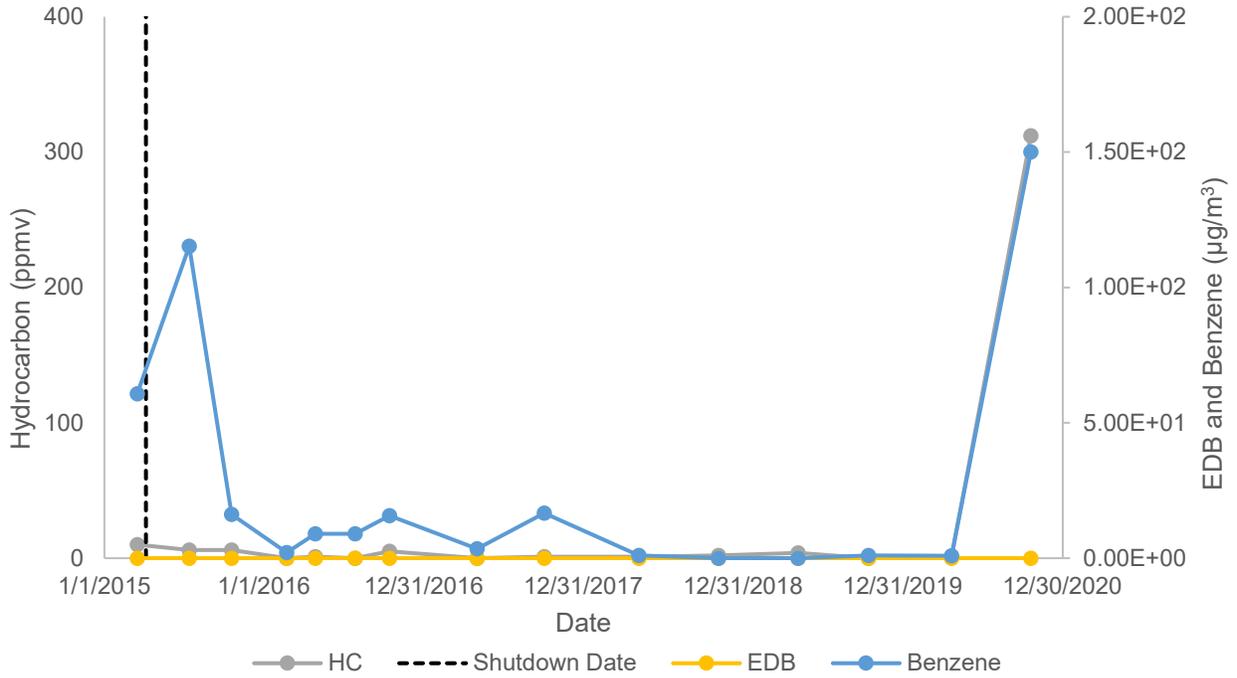
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



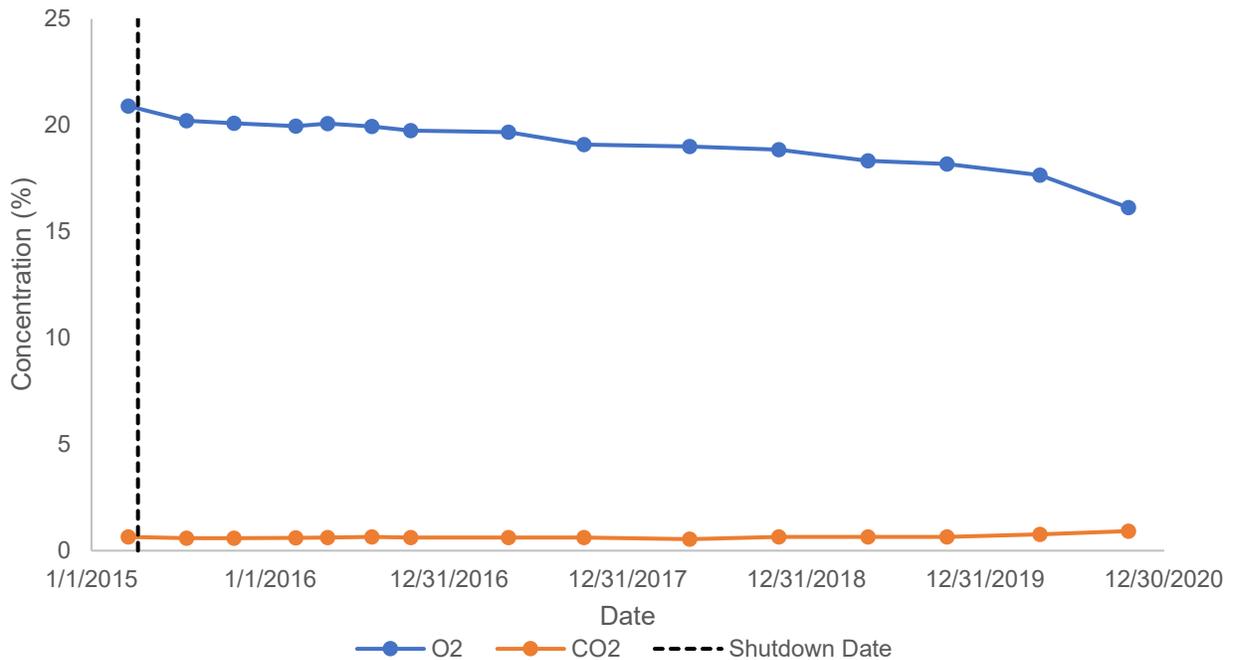
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**Oxygen and Carbon Dioxide Concentrations Over Time**



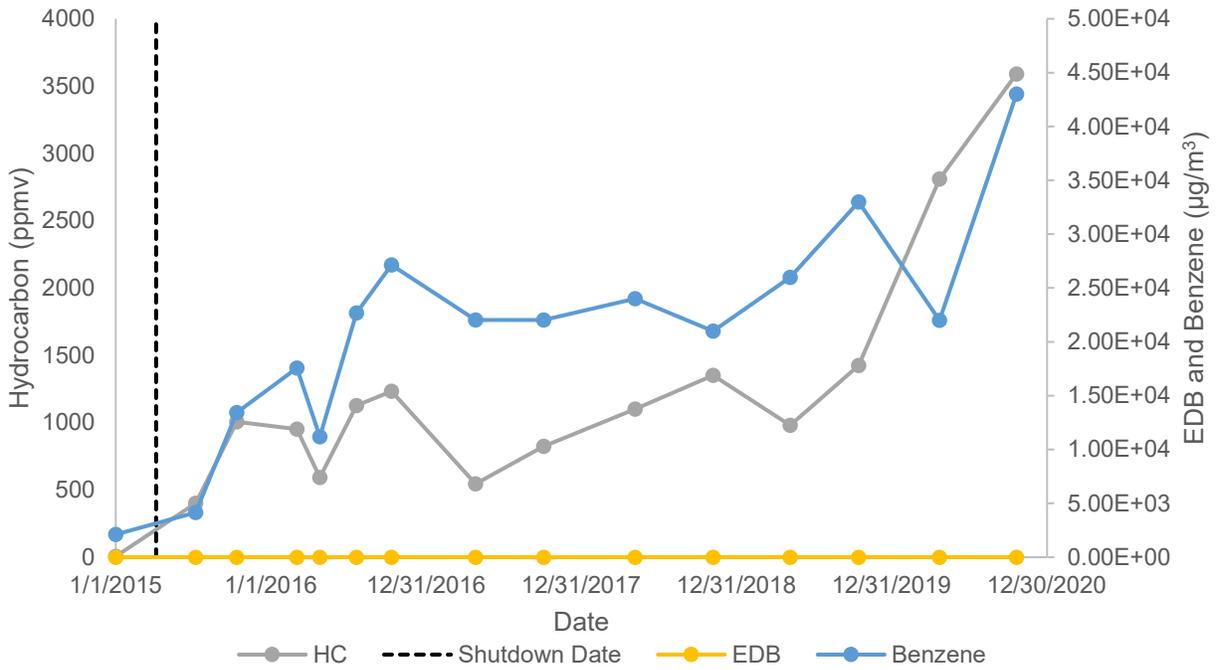
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



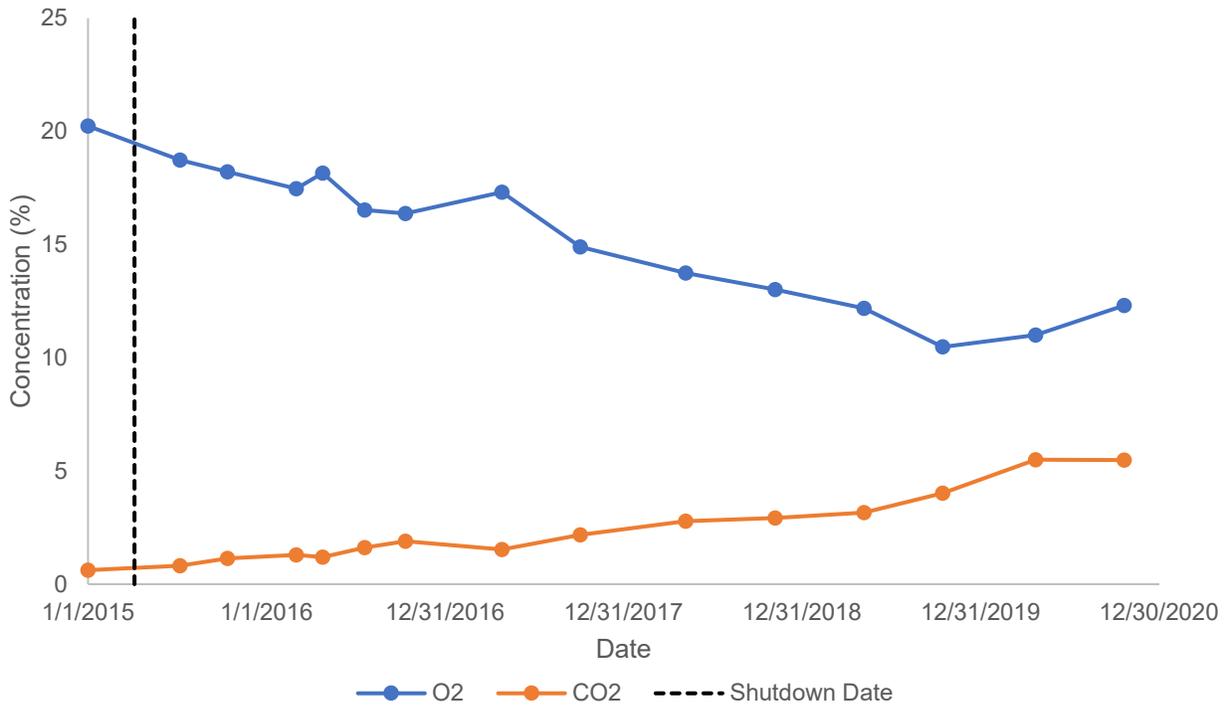
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**Oxygen and Carbon Dioxide Concentrations Over Time**



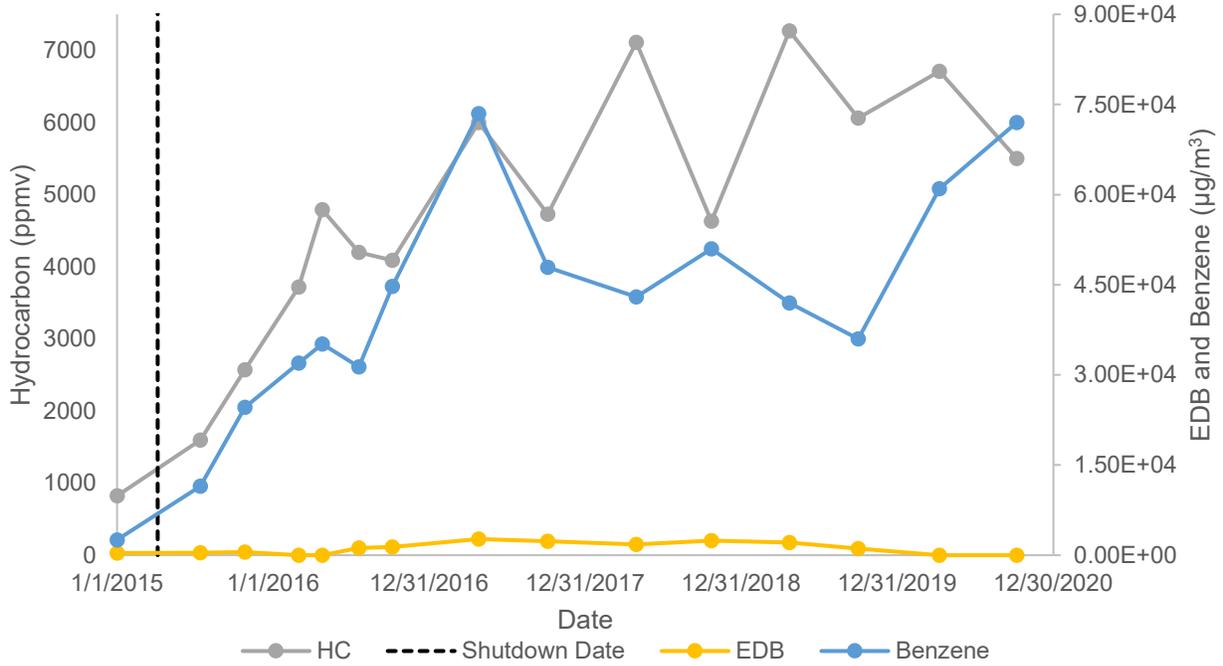
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



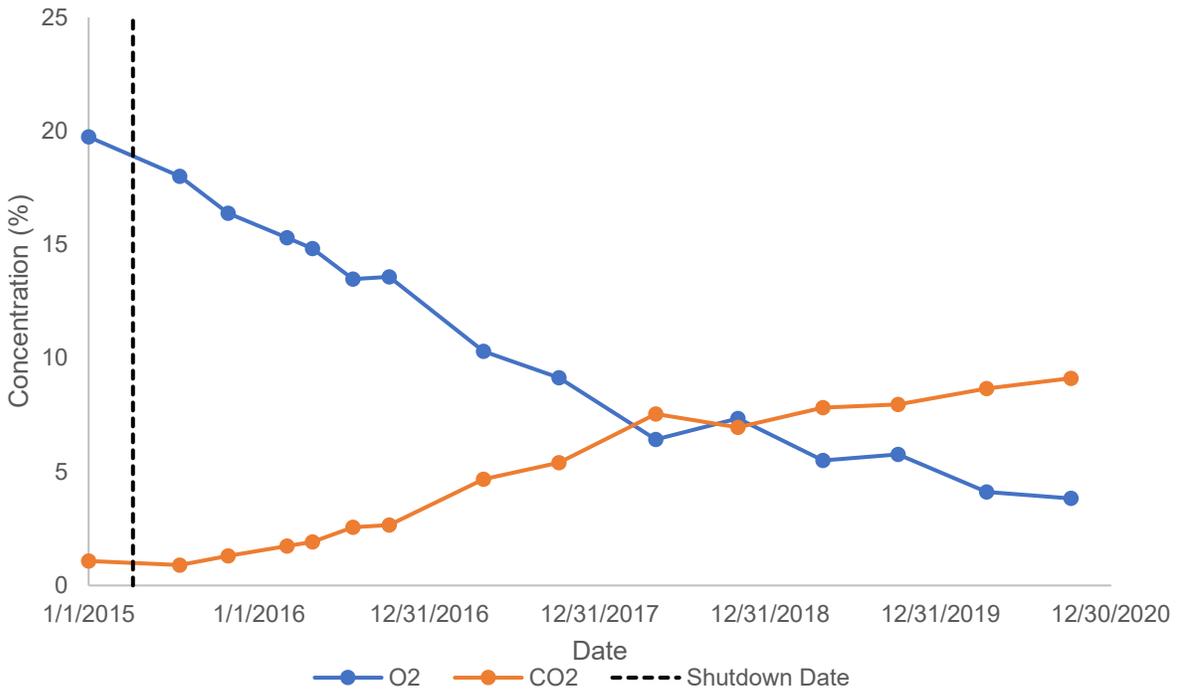
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**Oxygen and Carbon Dioxide Concentrations Over Time**



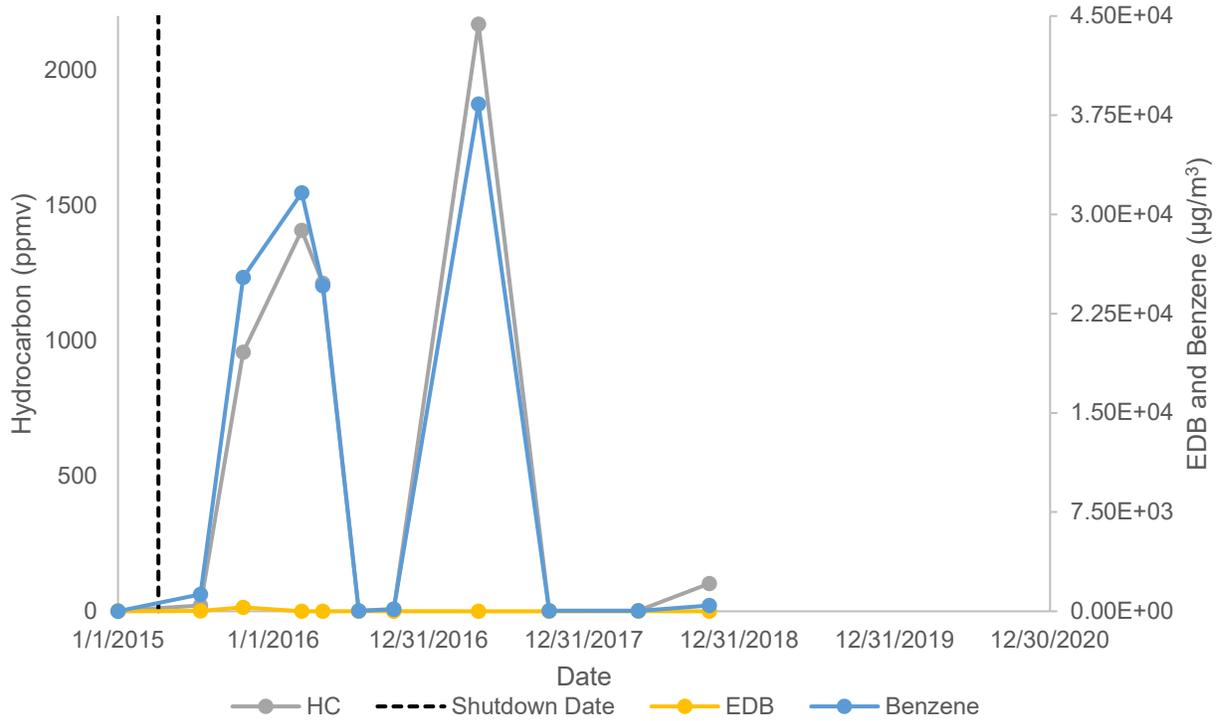
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



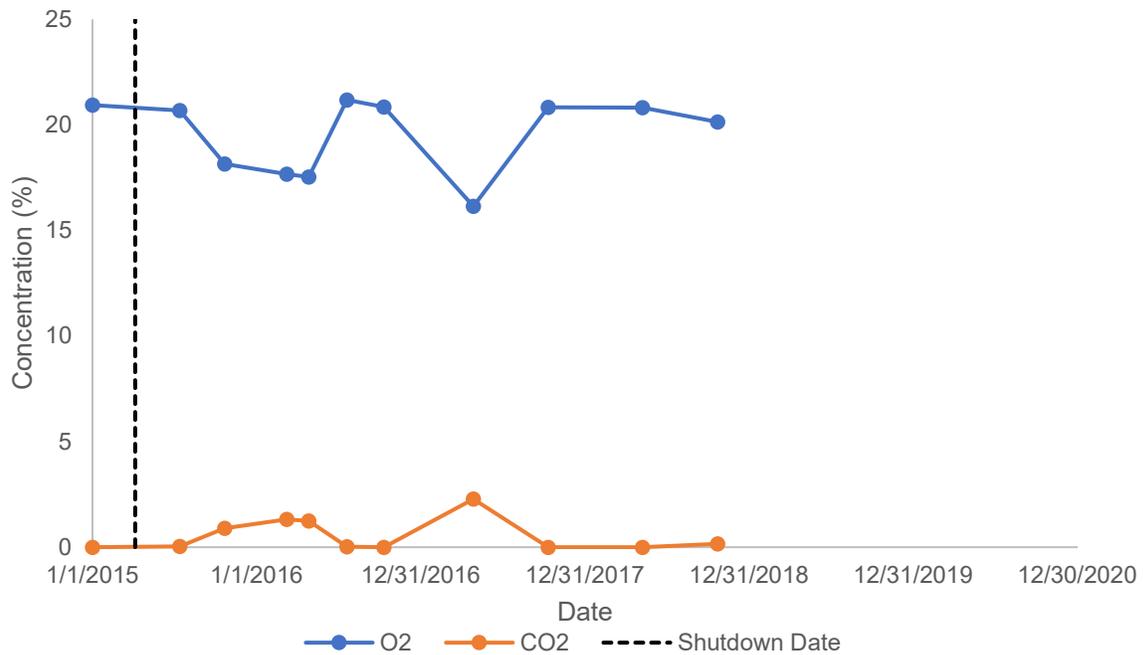
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**Oxygen and Carbon Dioxide Concentrations Over Time**



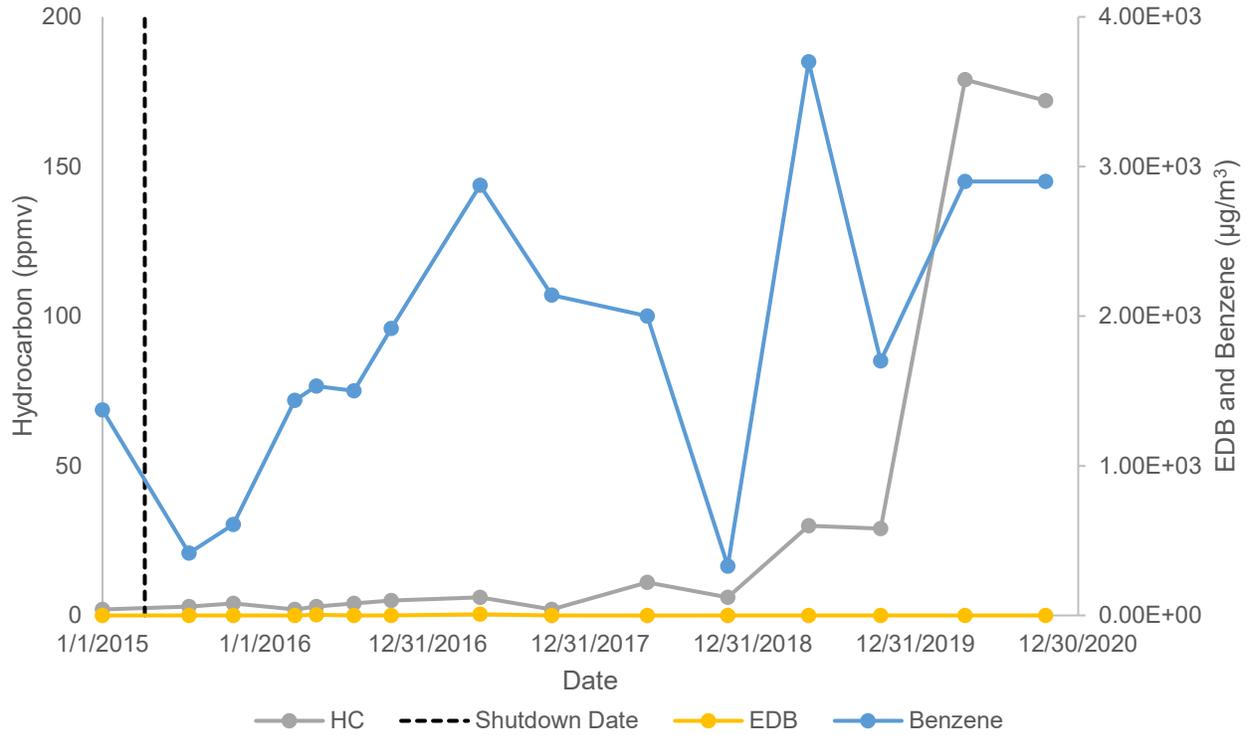
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



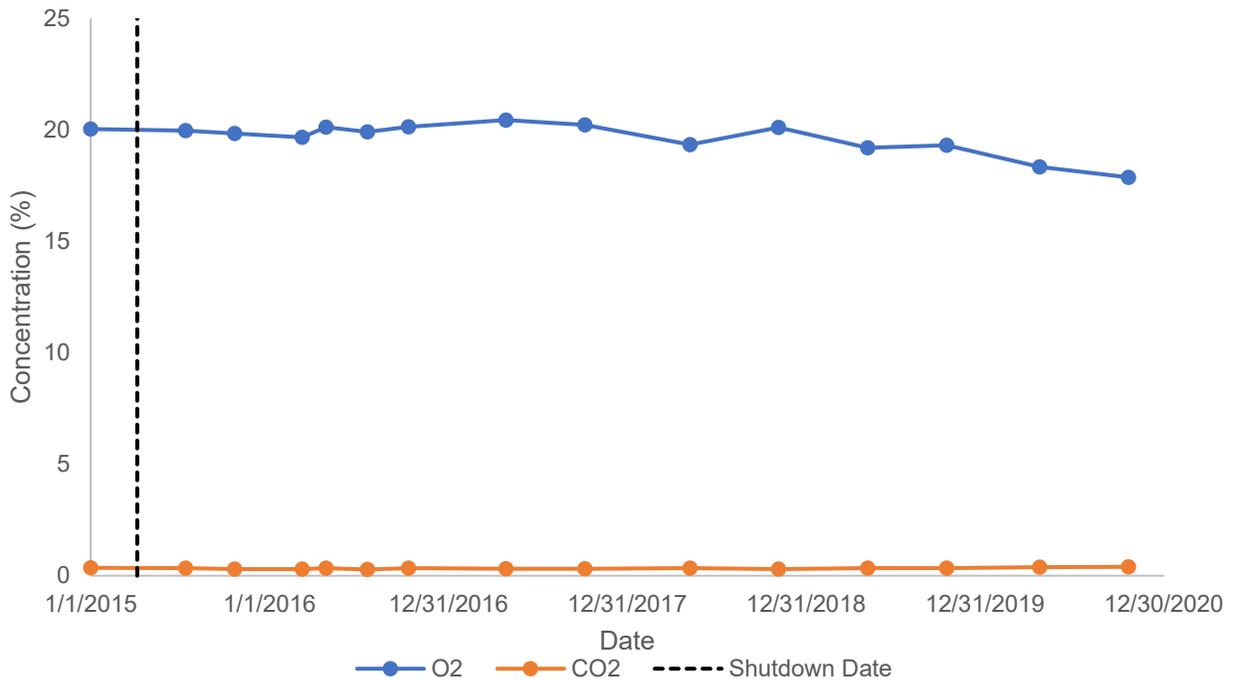
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**Oxygen and Carbon Dioxide Concentrations Over Time**



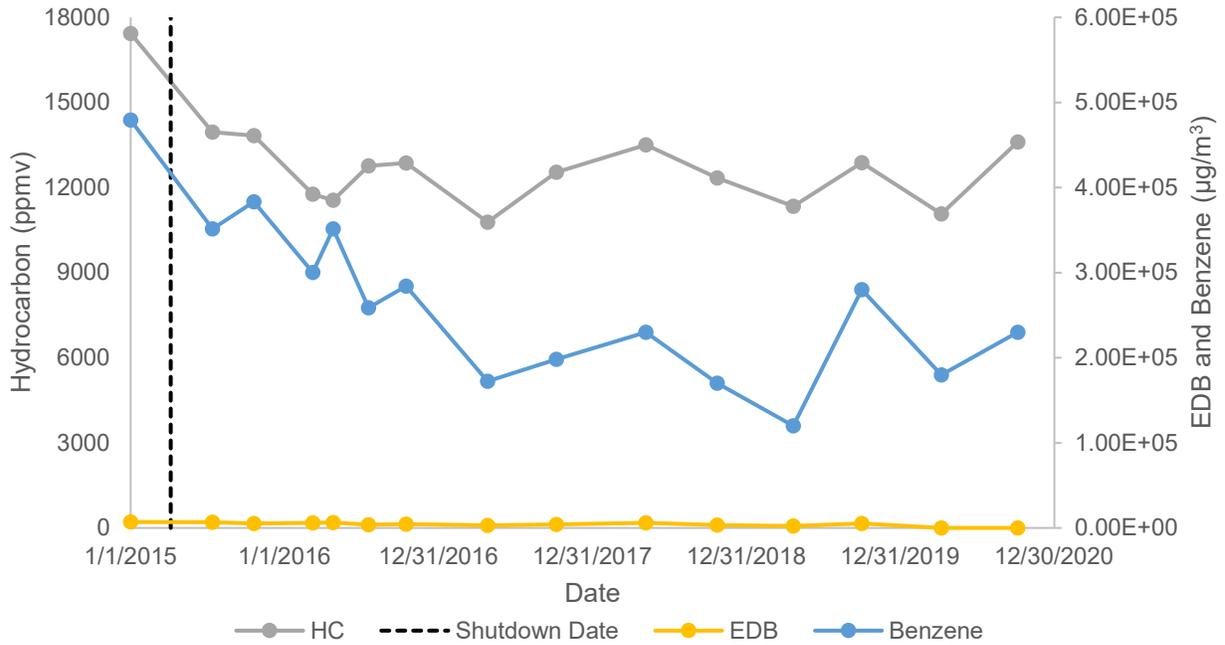
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



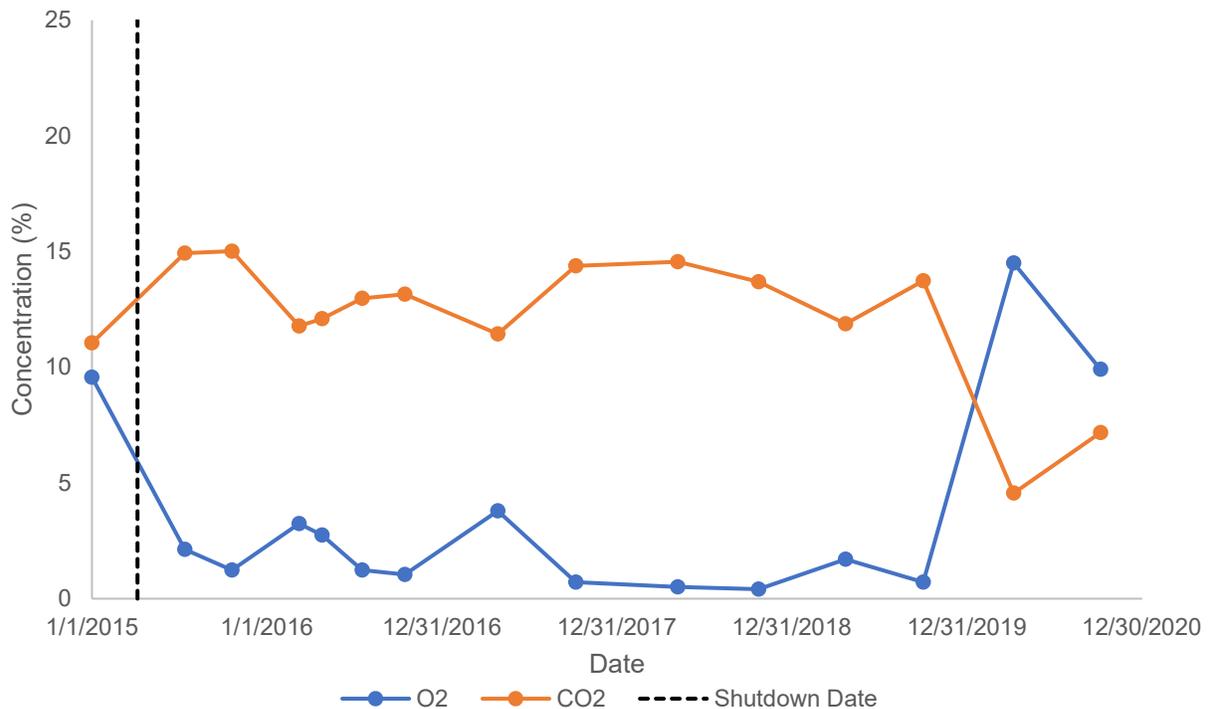
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**Oxygen and Carbon Dioxide Concentrations Over Time**



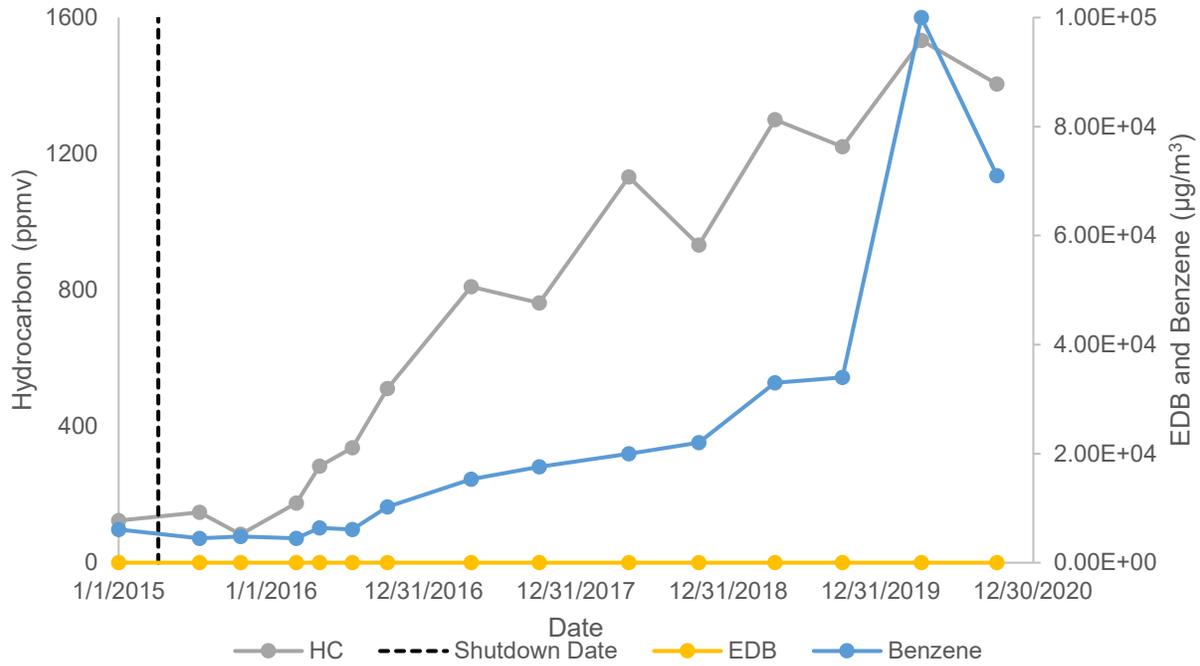
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



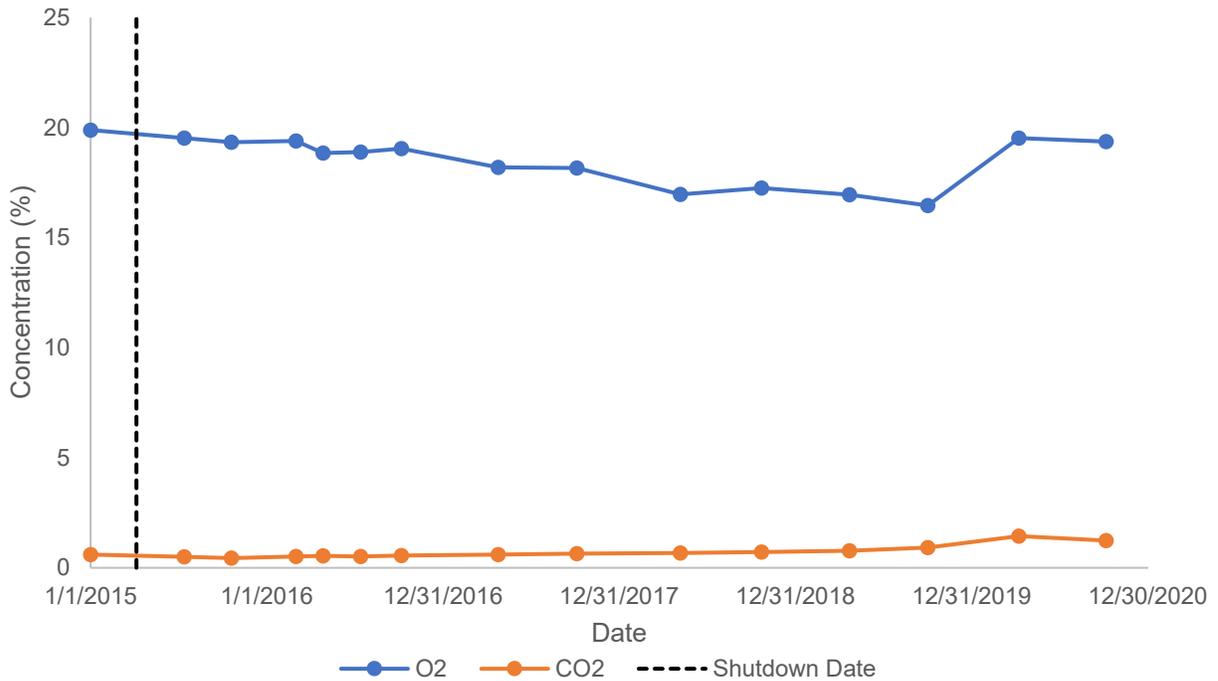
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**Oxygen and Carbon Dioxide Concentrations Over Time**



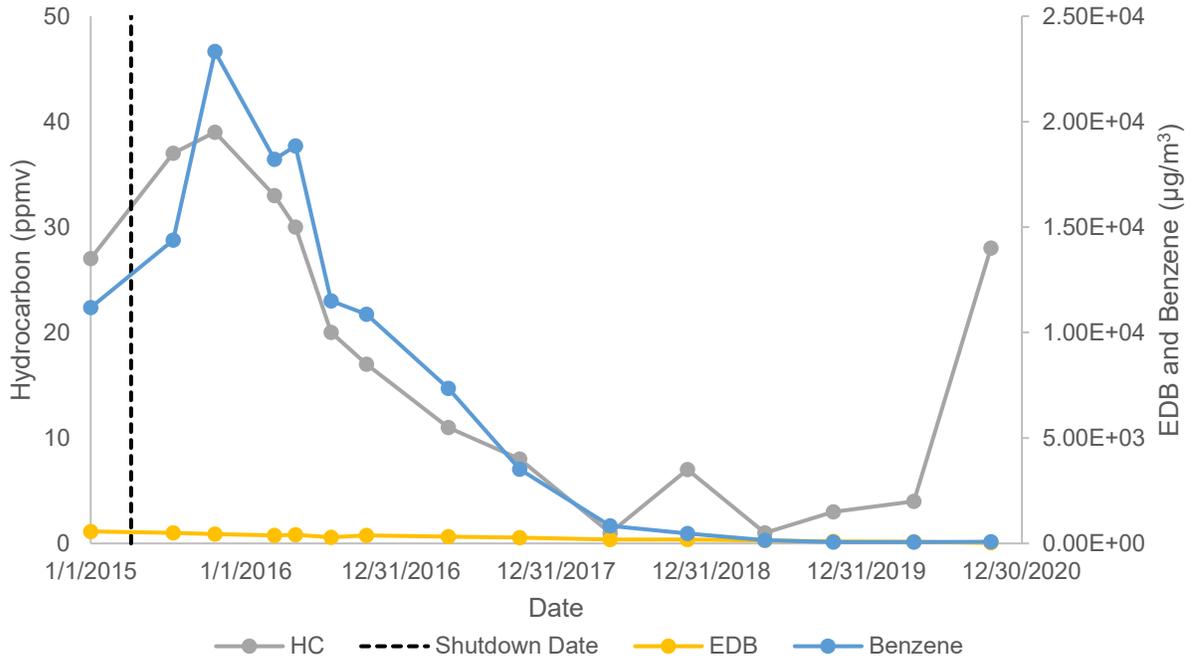
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



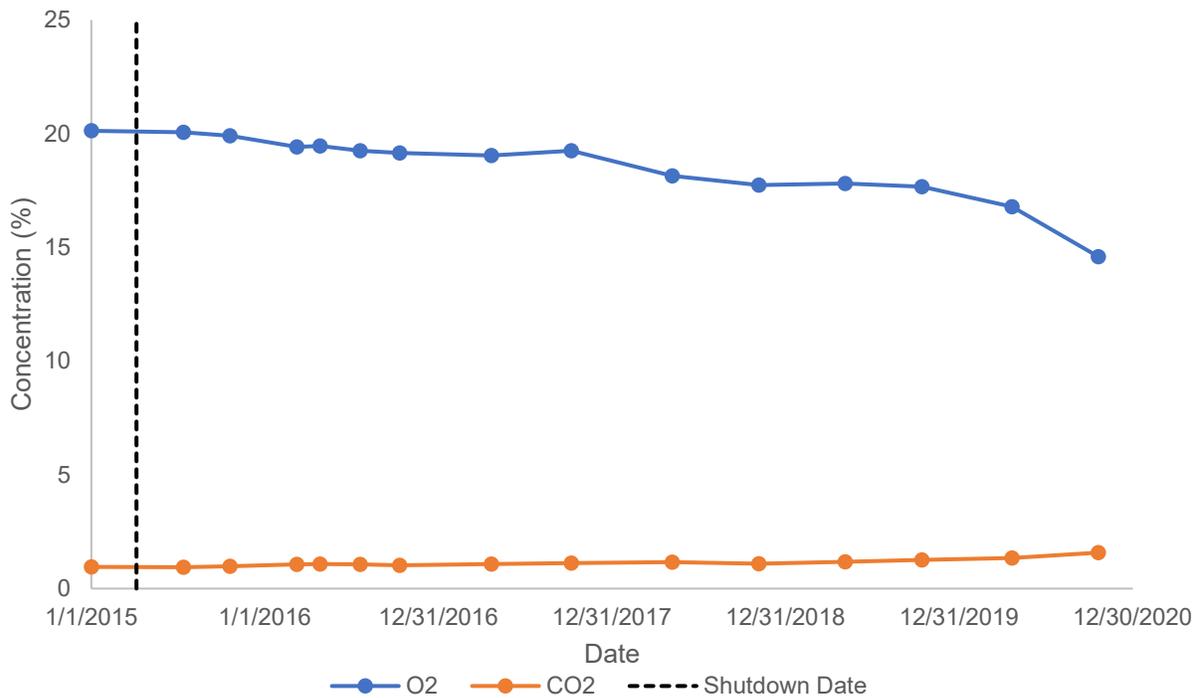
**Well ID: SVMW-04-300**  
**Oxygen and Carbon Dioxide Concentrations Over Time**



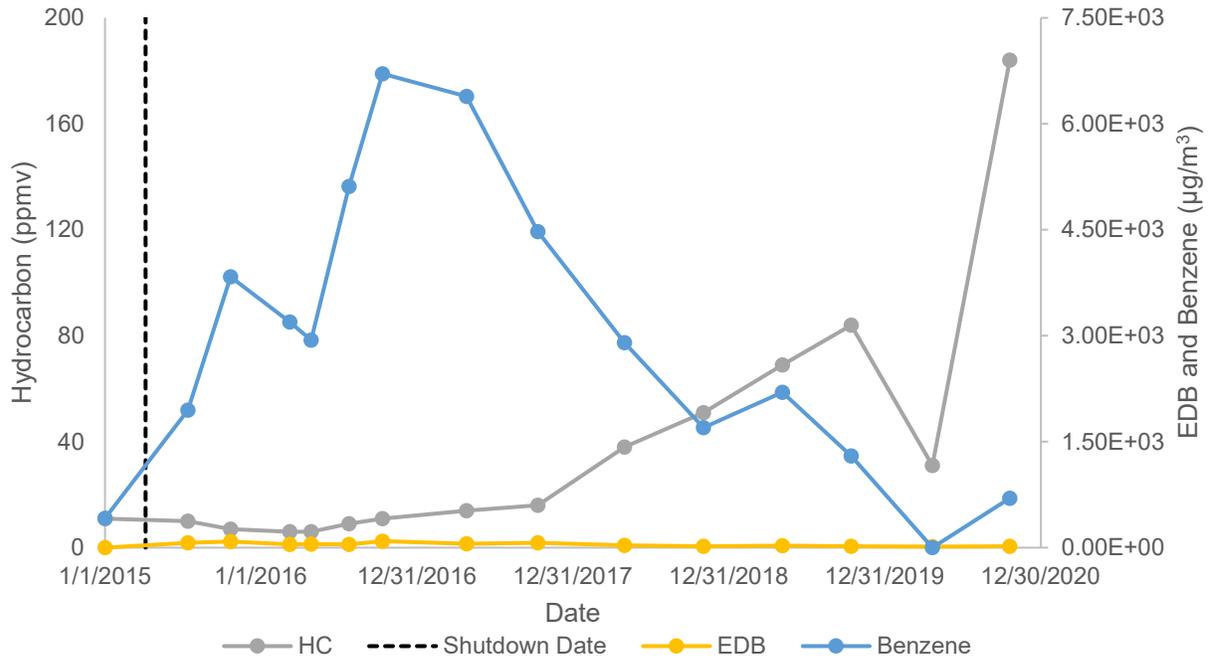
**Well ID: SVMW-06-302**  
**Hydrocarbon, EDB, and Benzene Levels Over Time**



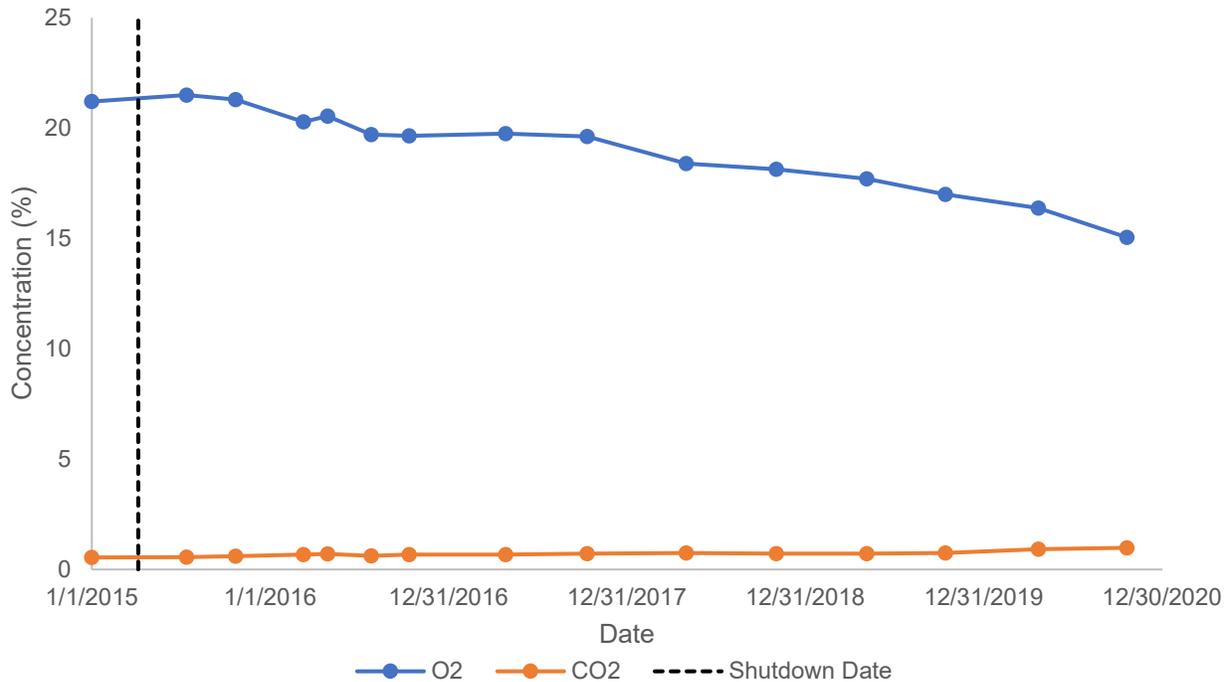
**Well ID: SVMW-06-302**  
**Oxygen and Carbon Dioxide Concentrations Over Time**



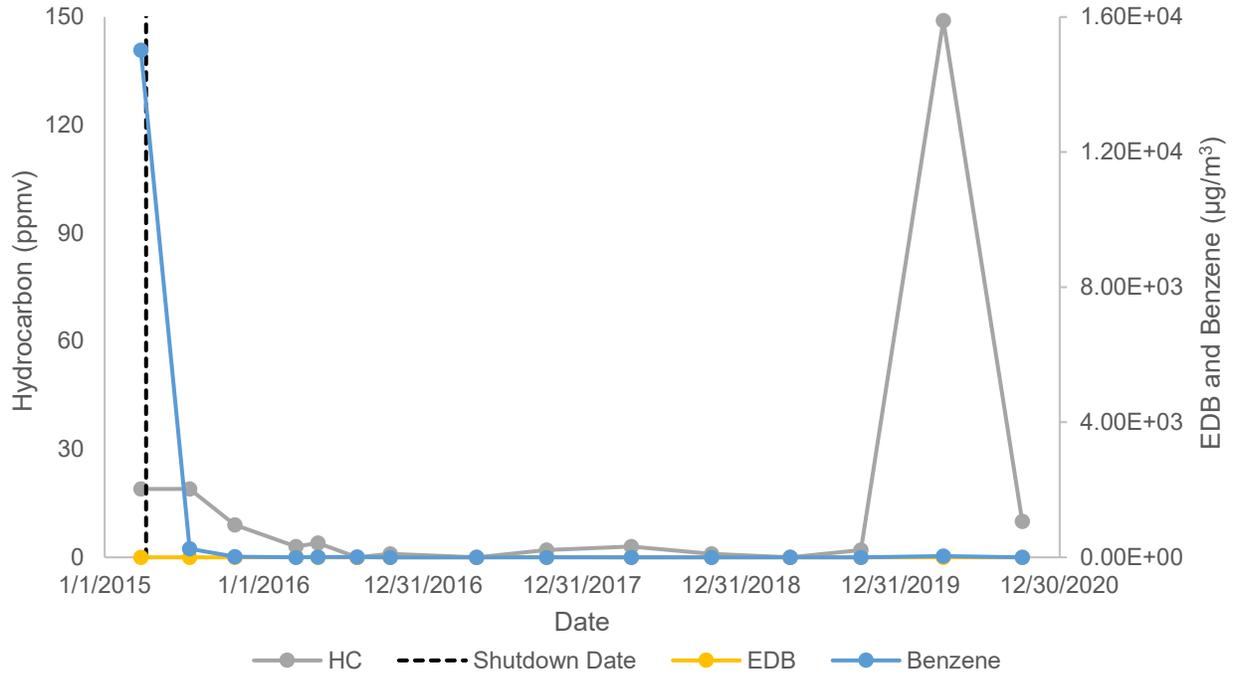
**Well ID: SVMW-15-350**  
**Hydrocarbon, EDB, and Benzene Levels Over Time**



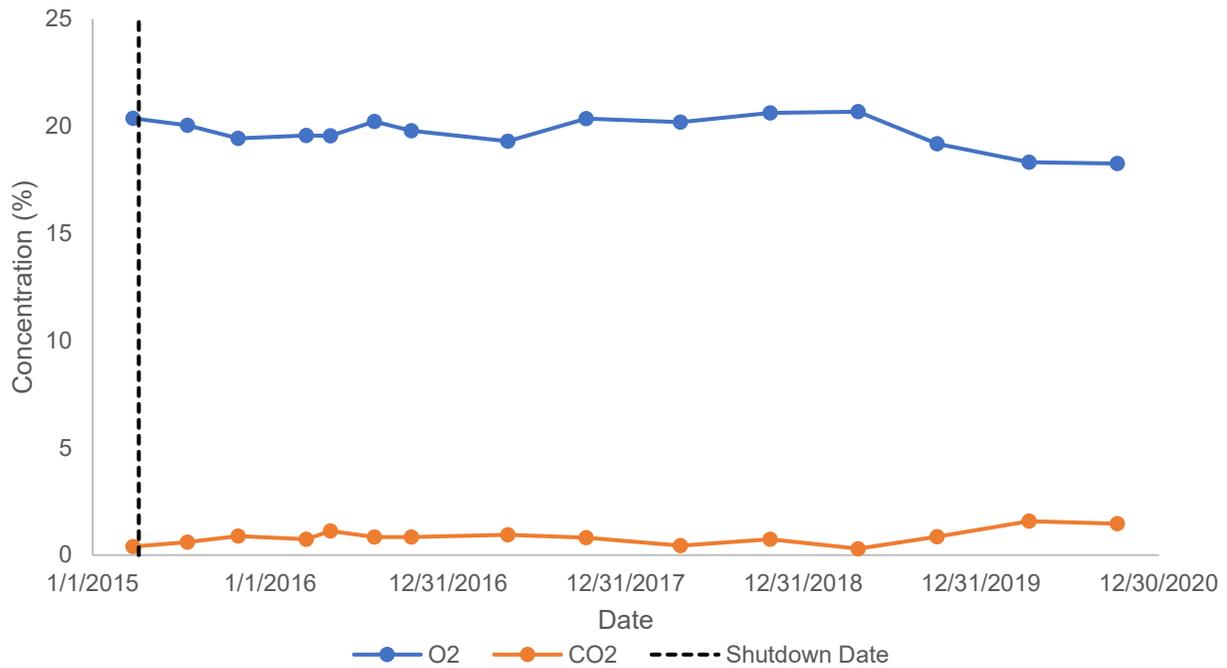
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**Oxygen and Carbon Dioxide Concentrations Over Time**



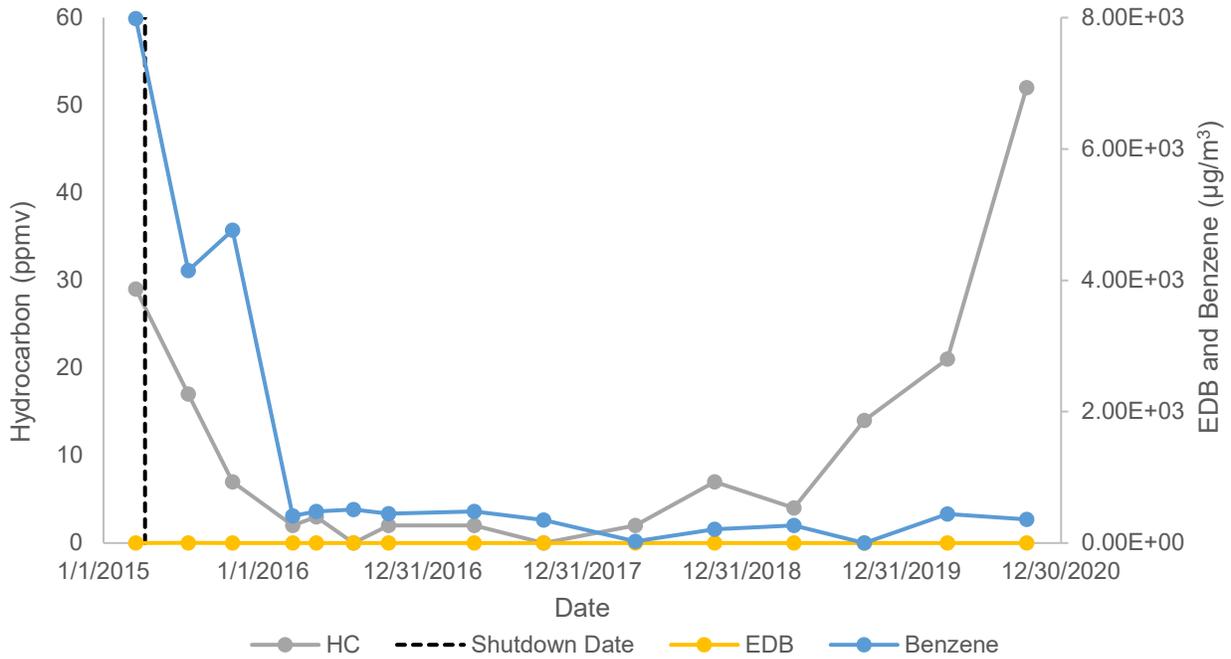
**Well ID: KAFB-106028-450**  
**Hydrocarbon, EDB, and Benzene Levels Over Time**



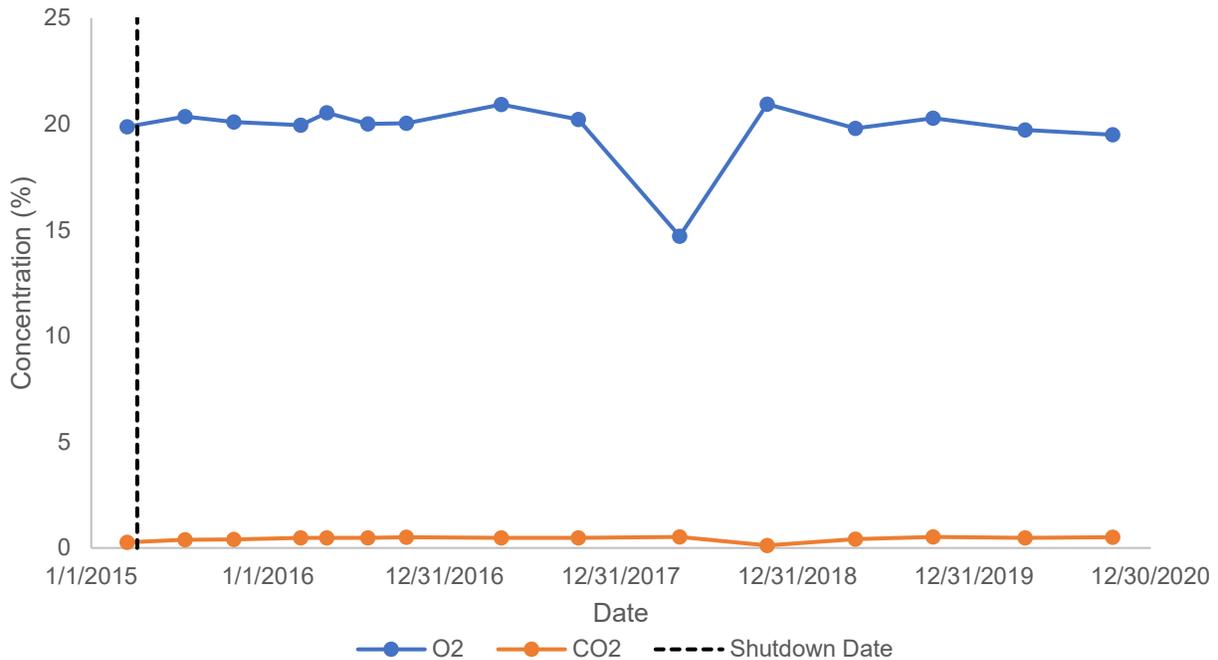
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**Oxygen and Carbon Dioxide Concentrations Over Time**



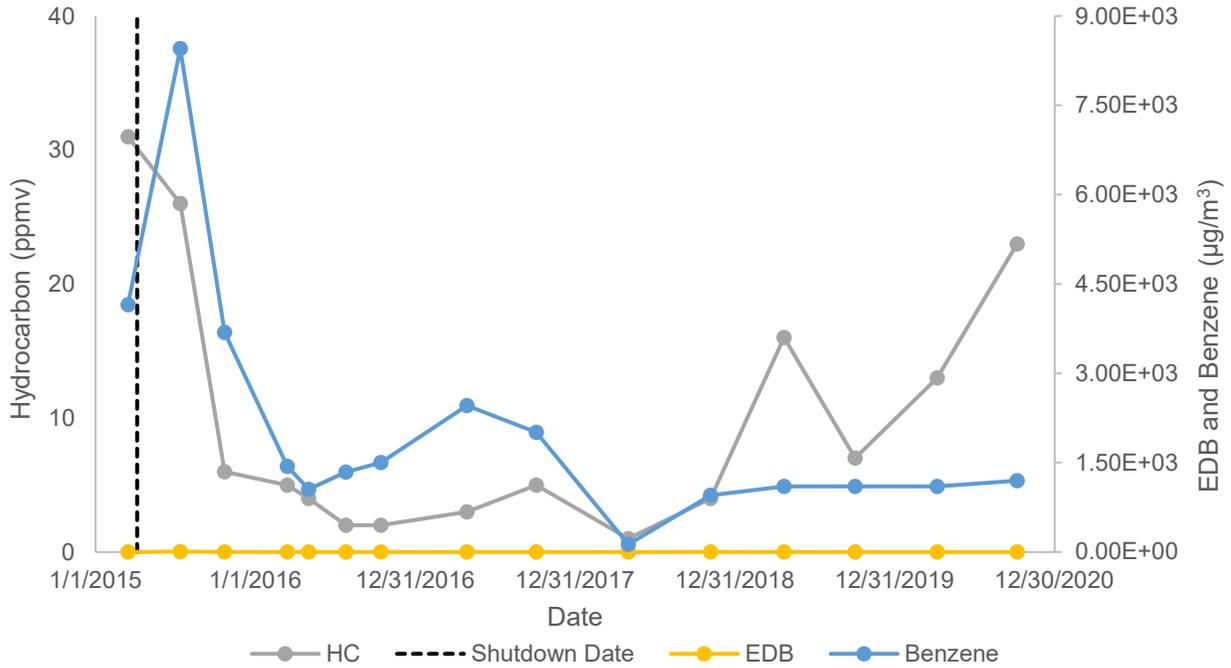
**Well ID: KAFB-106110-450**  
**Hydrocarbon, EDB, and Benzene Levels Over Time**



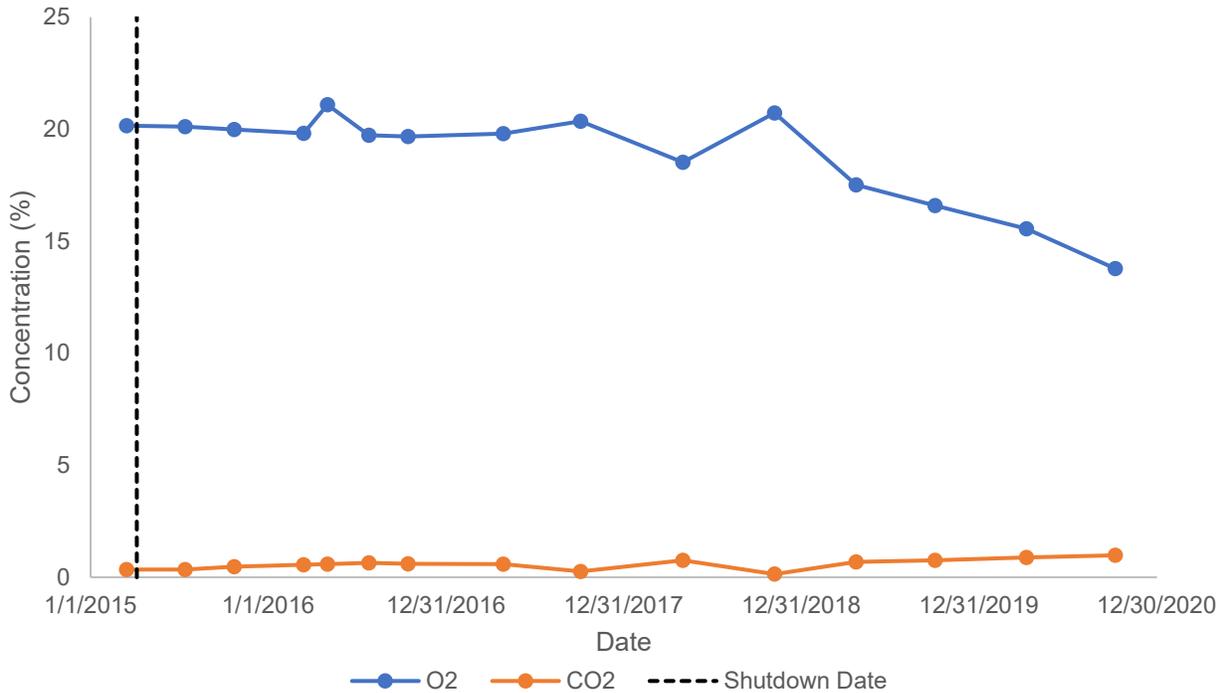
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**Oxygen and Carbon Dioxide Concentrations Over Time**



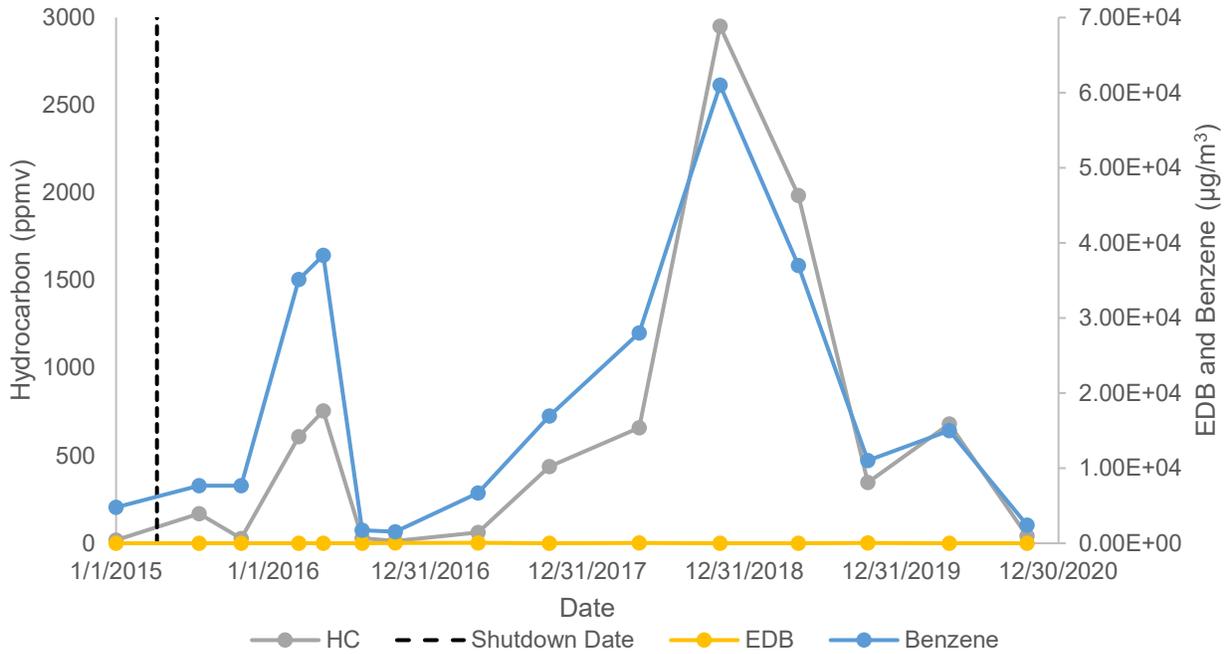
**Well ID: KAFB-106111-450**  
**Hydrocarbon, EDB, and Benzene Levels Over Time**



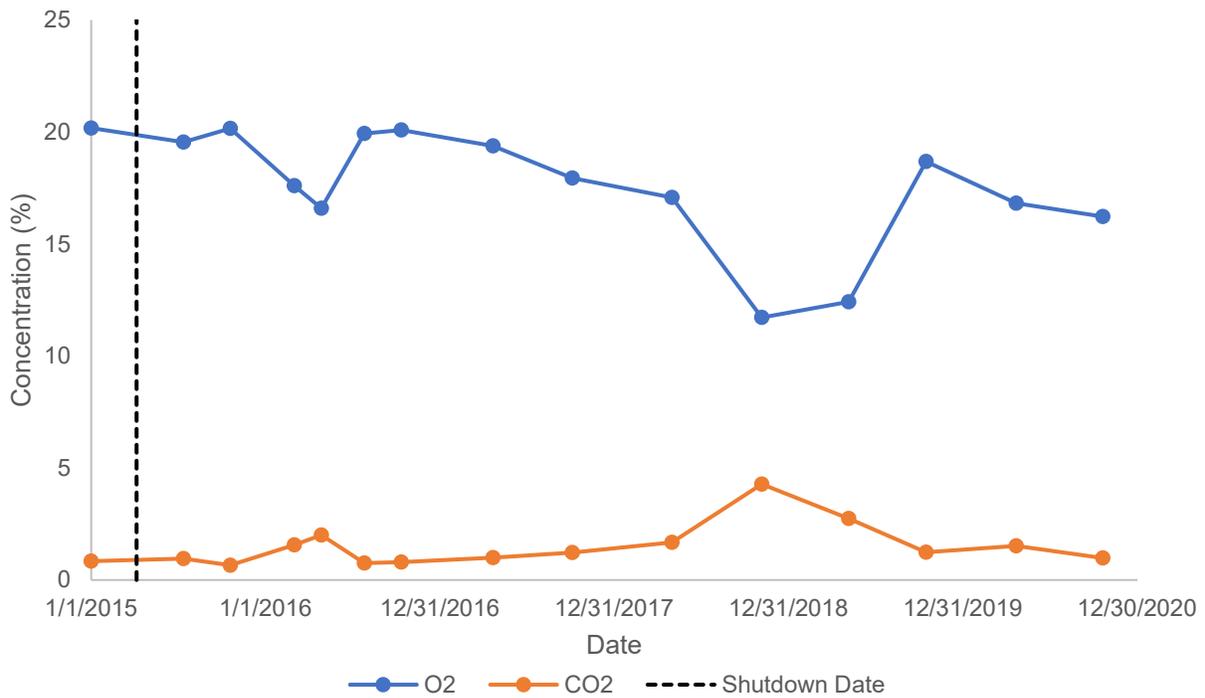
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**Oxygen and Carbon Dioxide Concentrations Over Time**



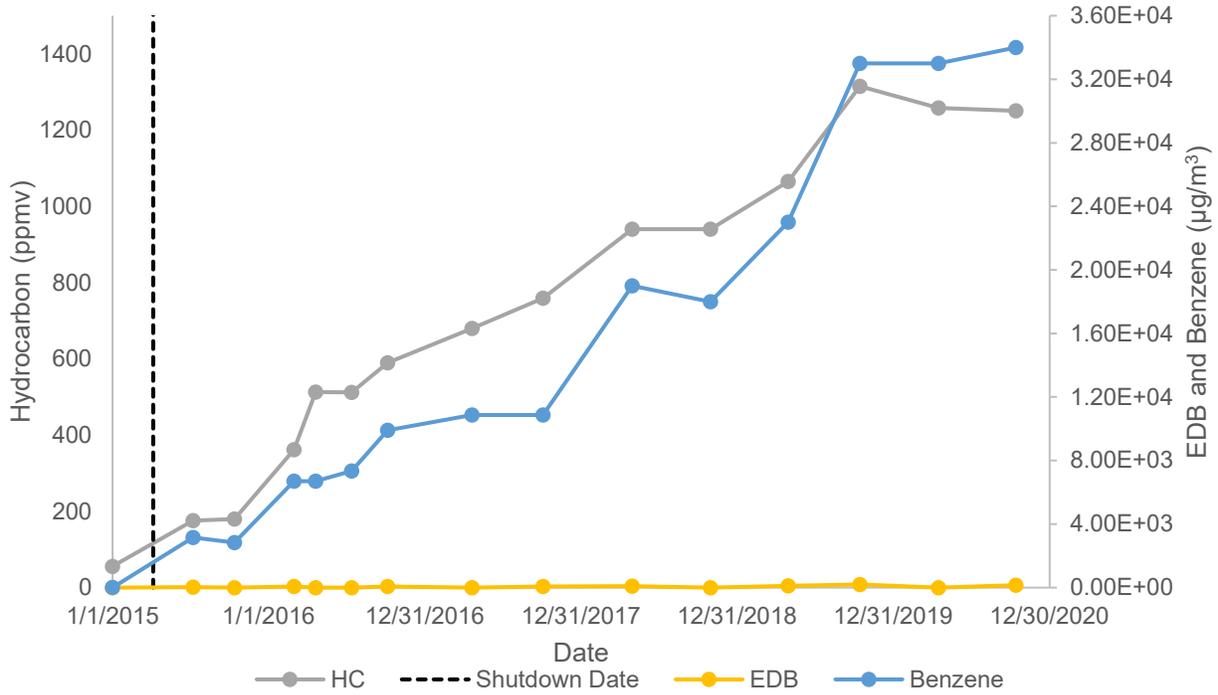
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



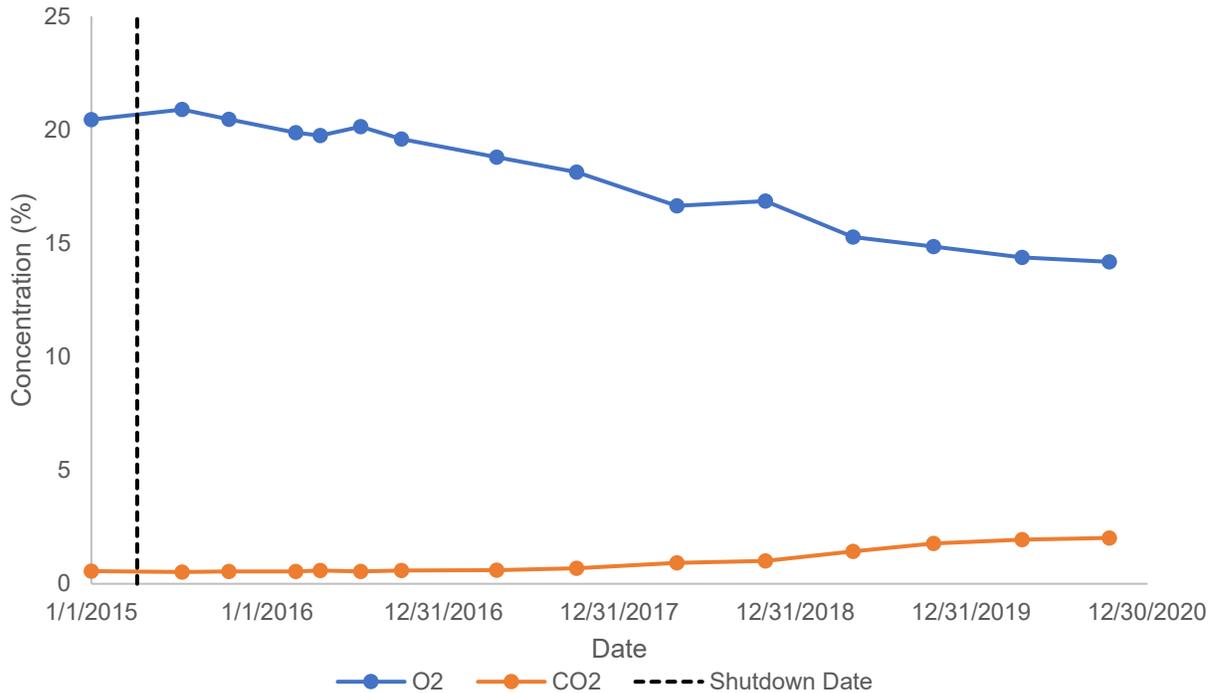
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**Oxygen and Carbon Dioxide Concentrations Over Time**



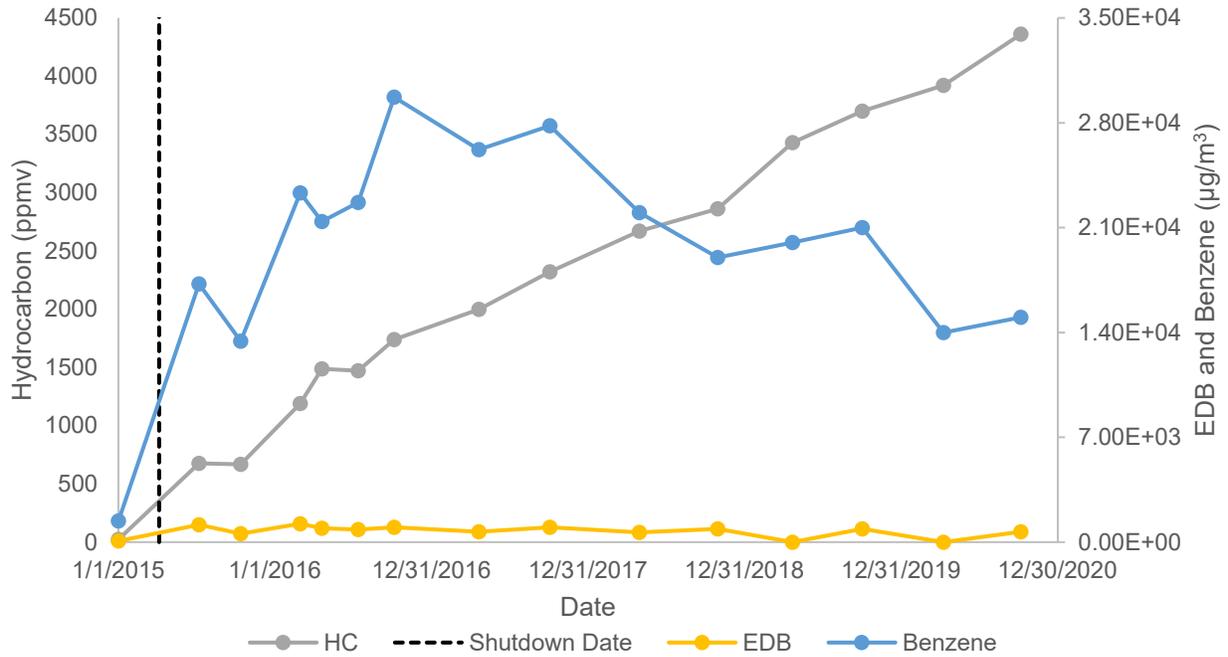
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



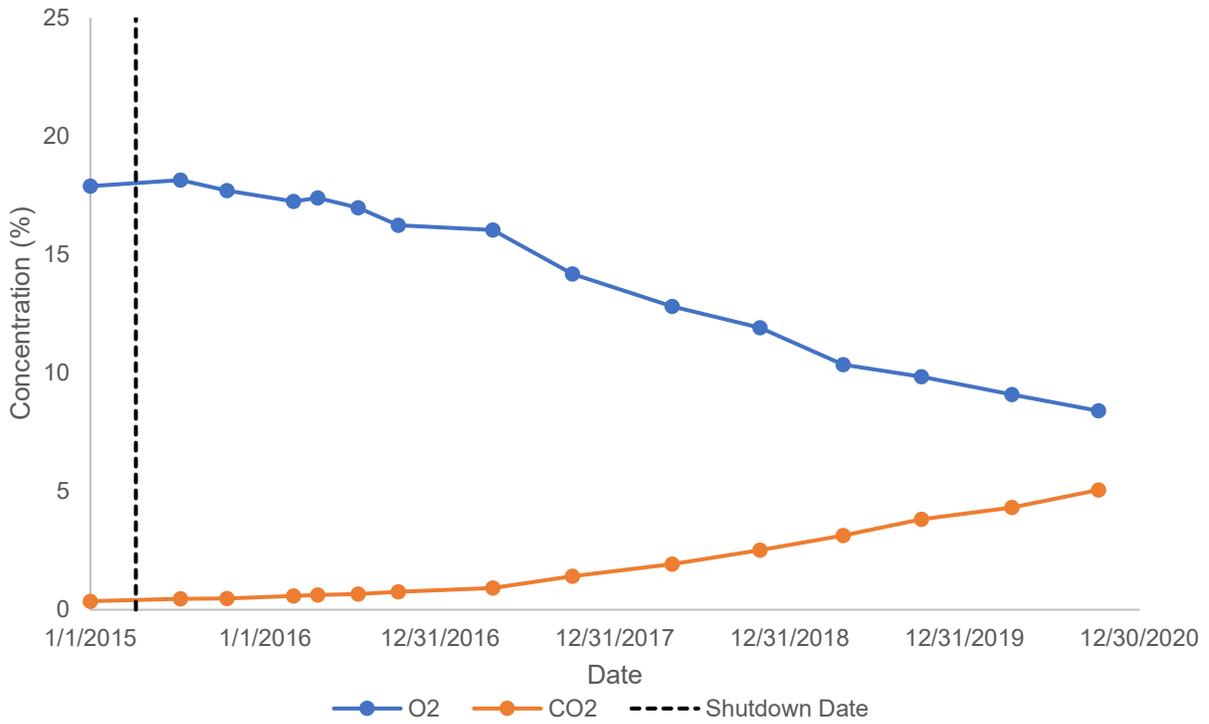
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**Oxygen and Carbon Dioxide Concentrations Over Time**



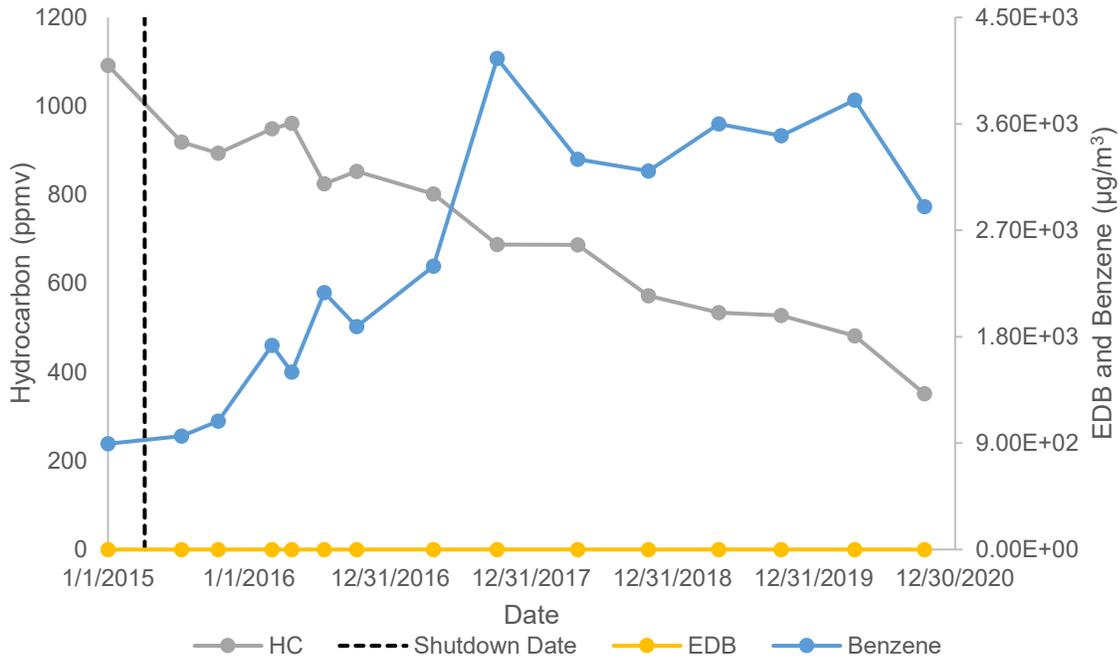
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



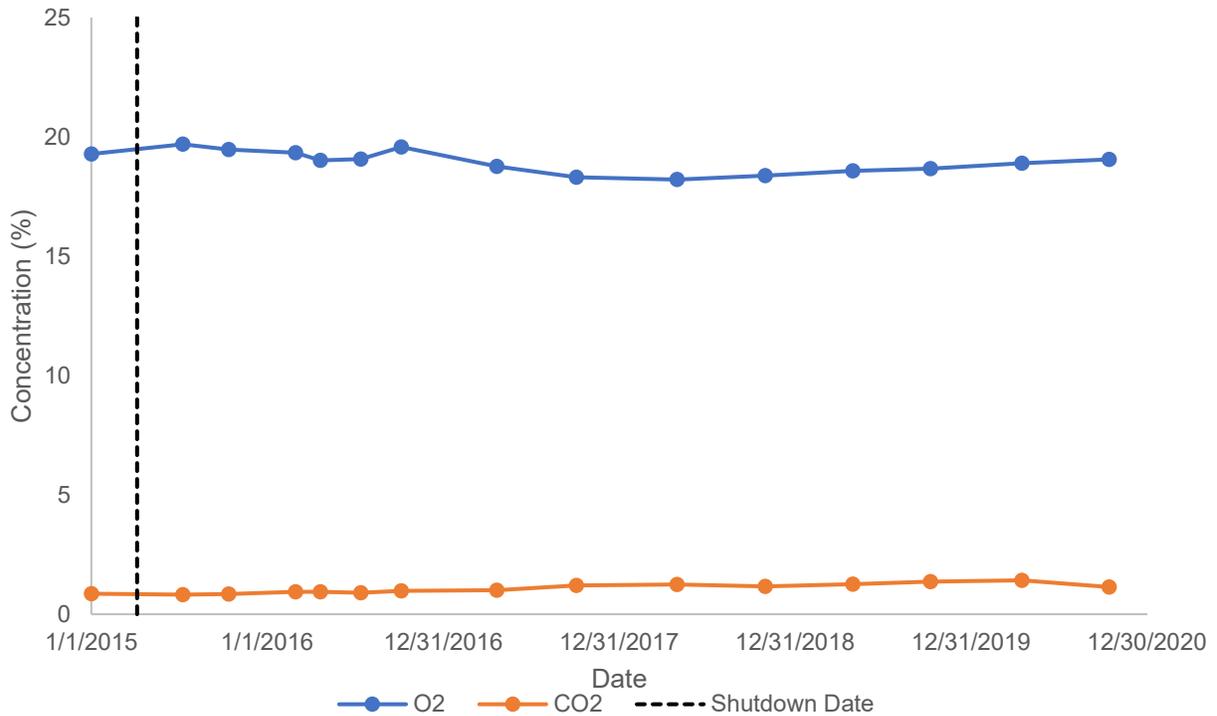
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**Oxygen and Carbon Dioxide Concentrations Over Time**



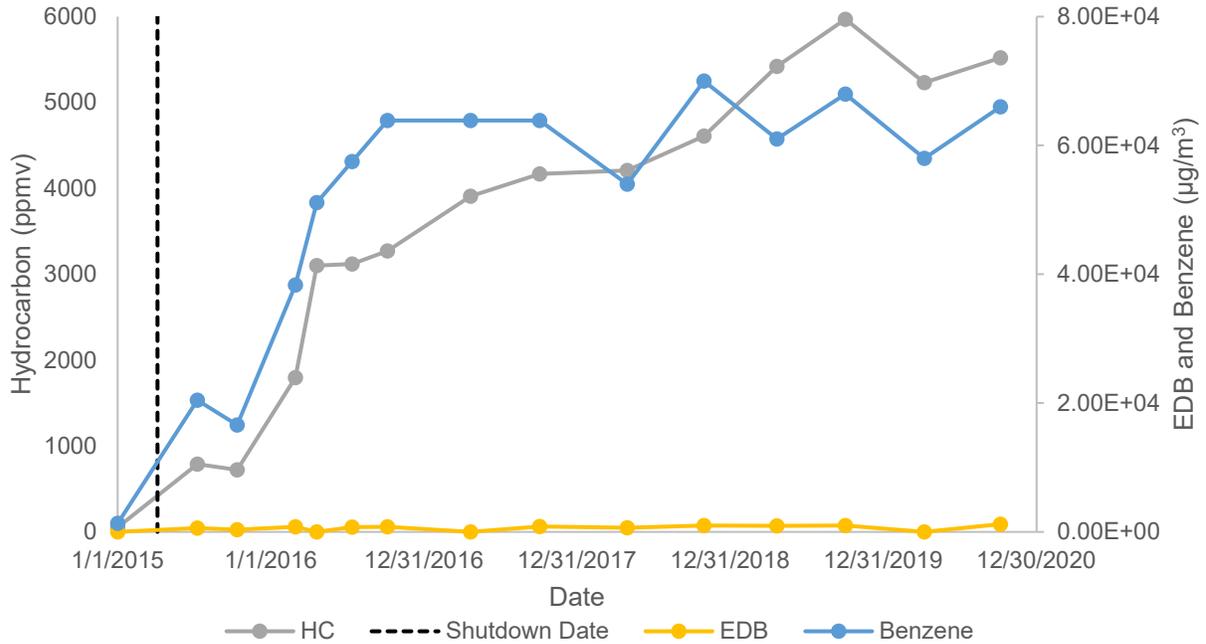
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



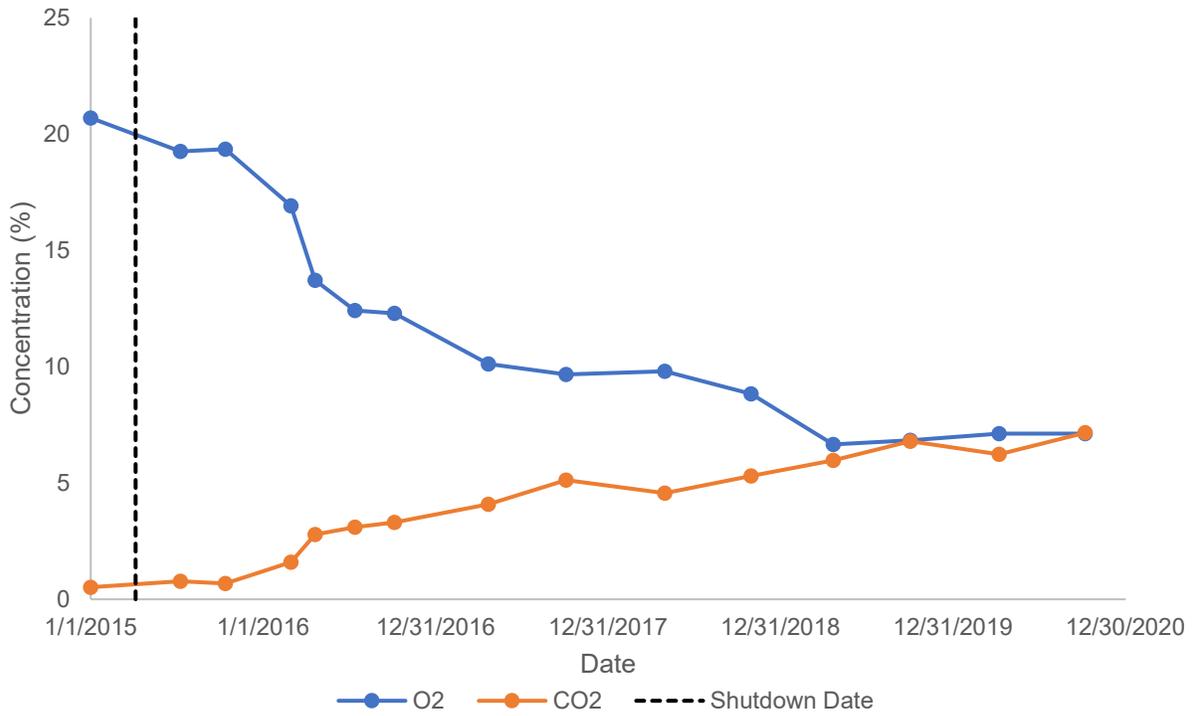
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**Oxygen and Carbon Dioxide Concentrations Over Time**



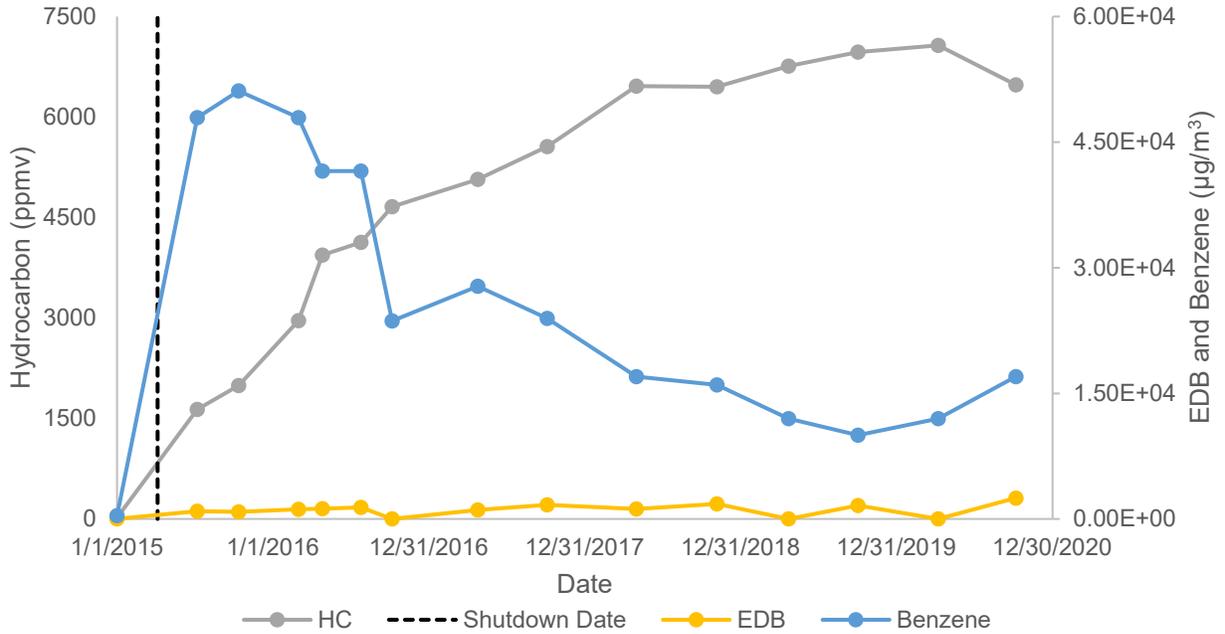
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



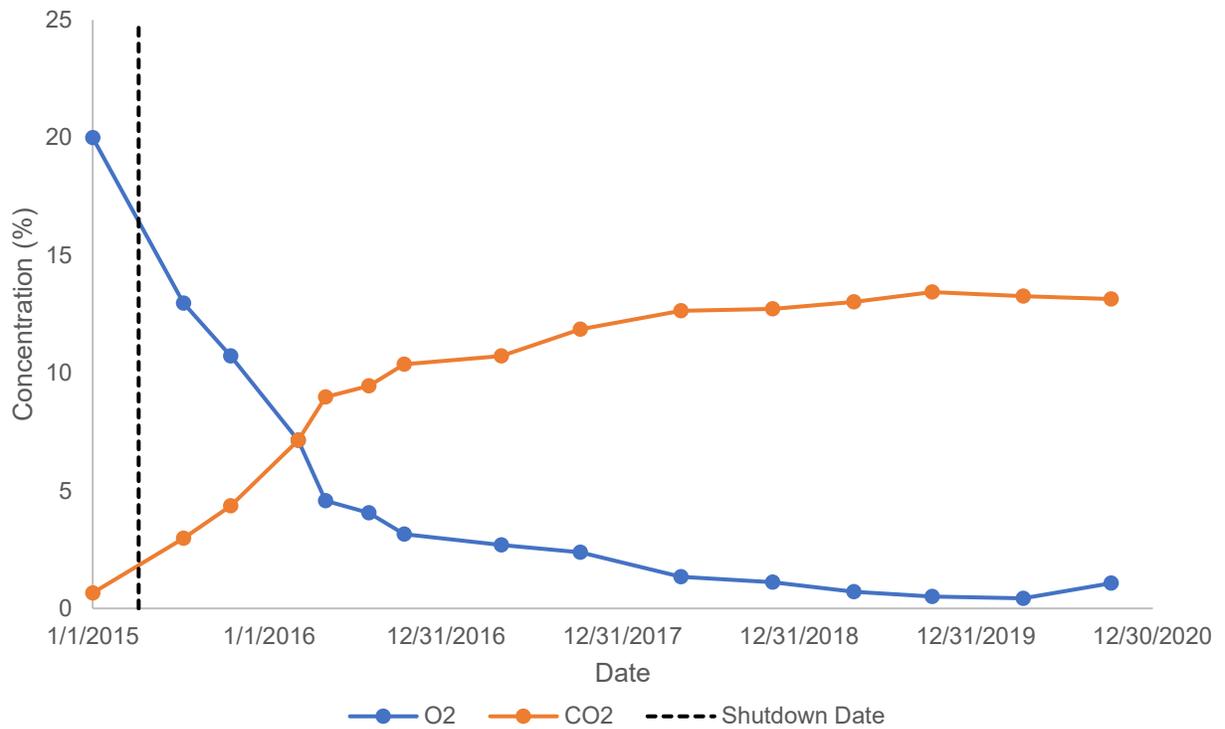
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**Oxygen and Carbon Dioxide Concentrations Over Time**



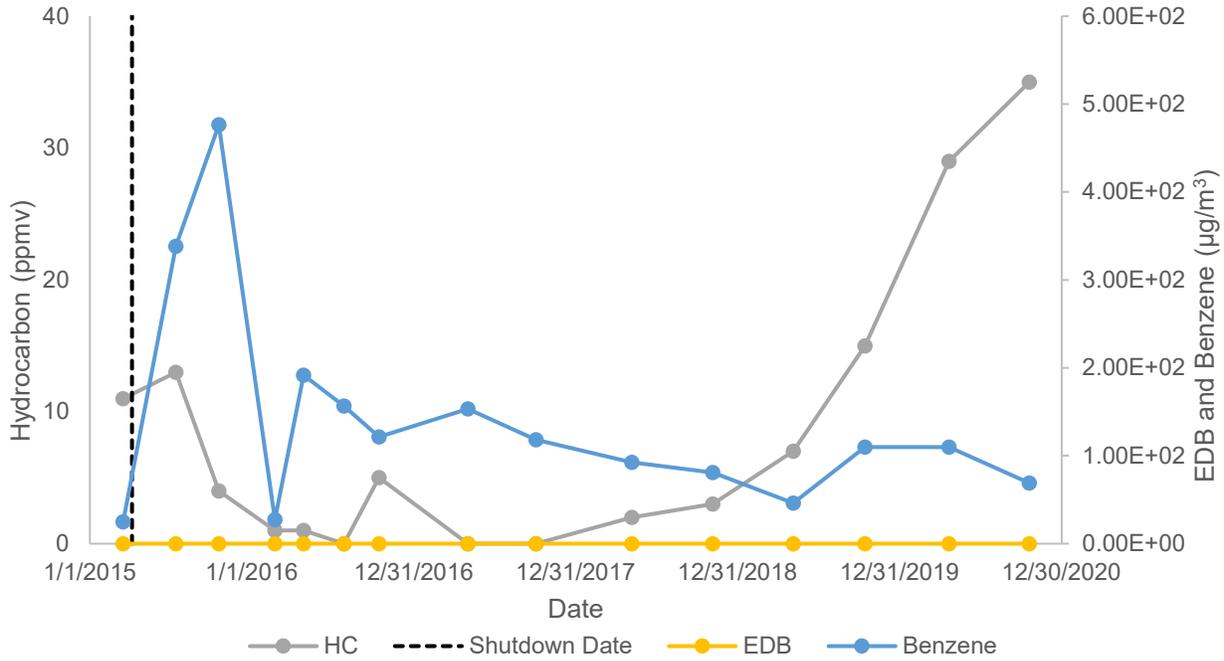
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



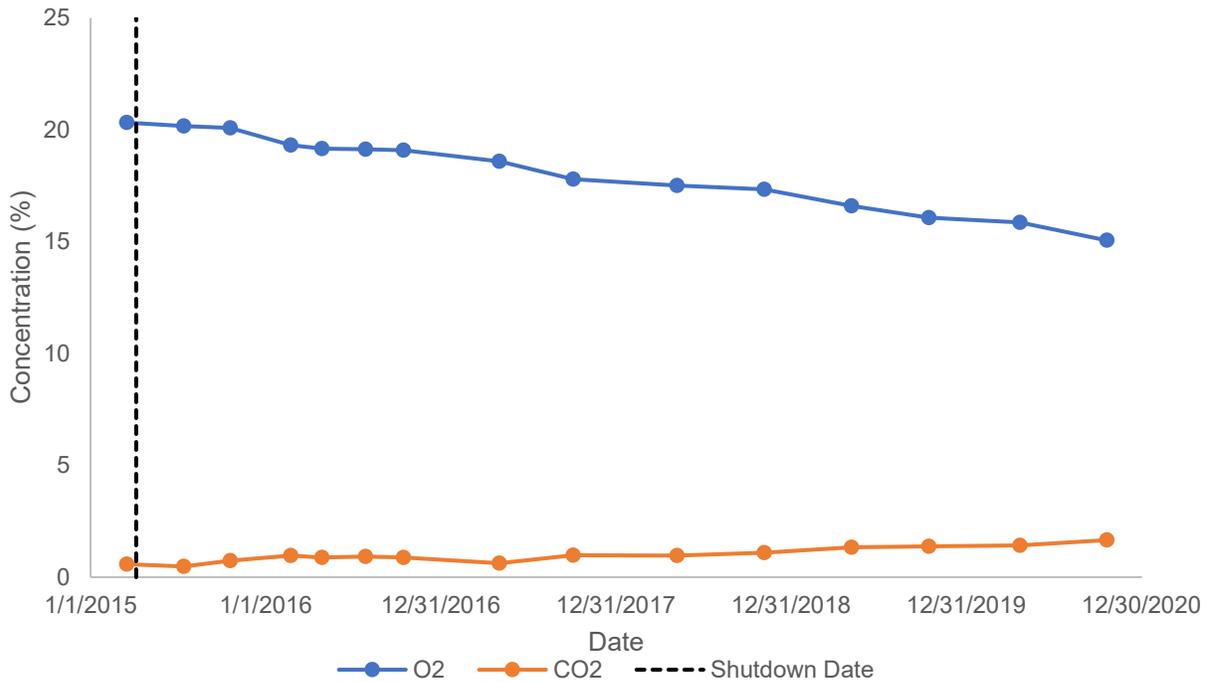
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**Oxygen and Carbon Dioxide Concentrations Over Time**



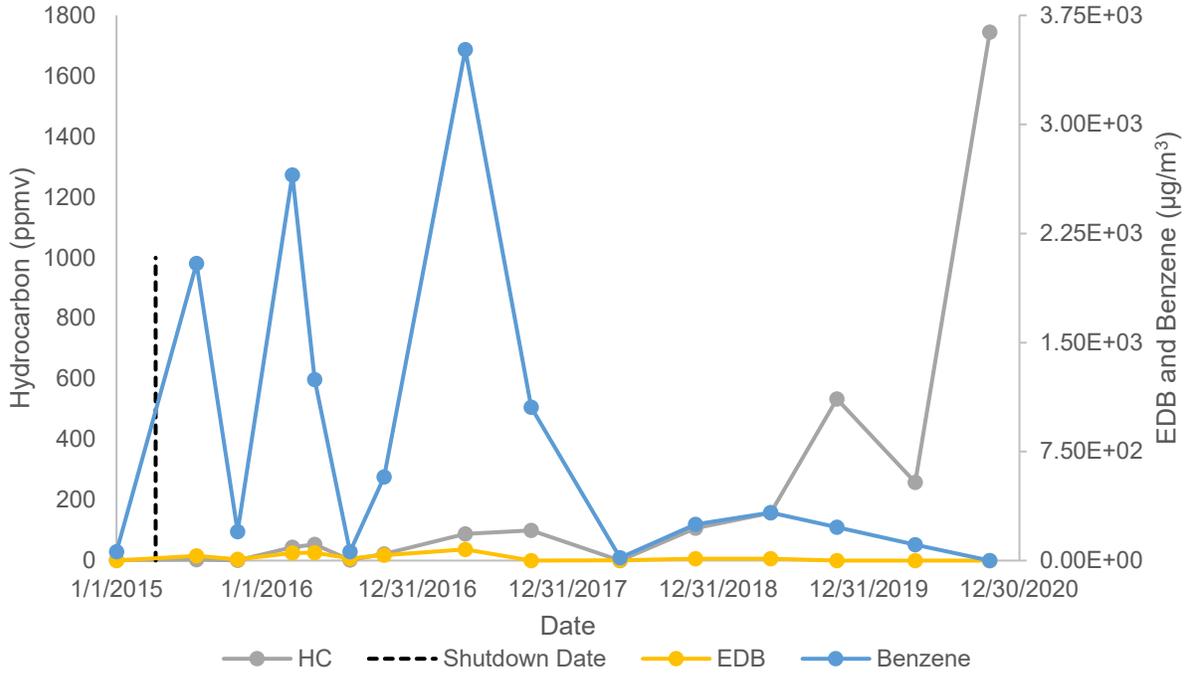
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



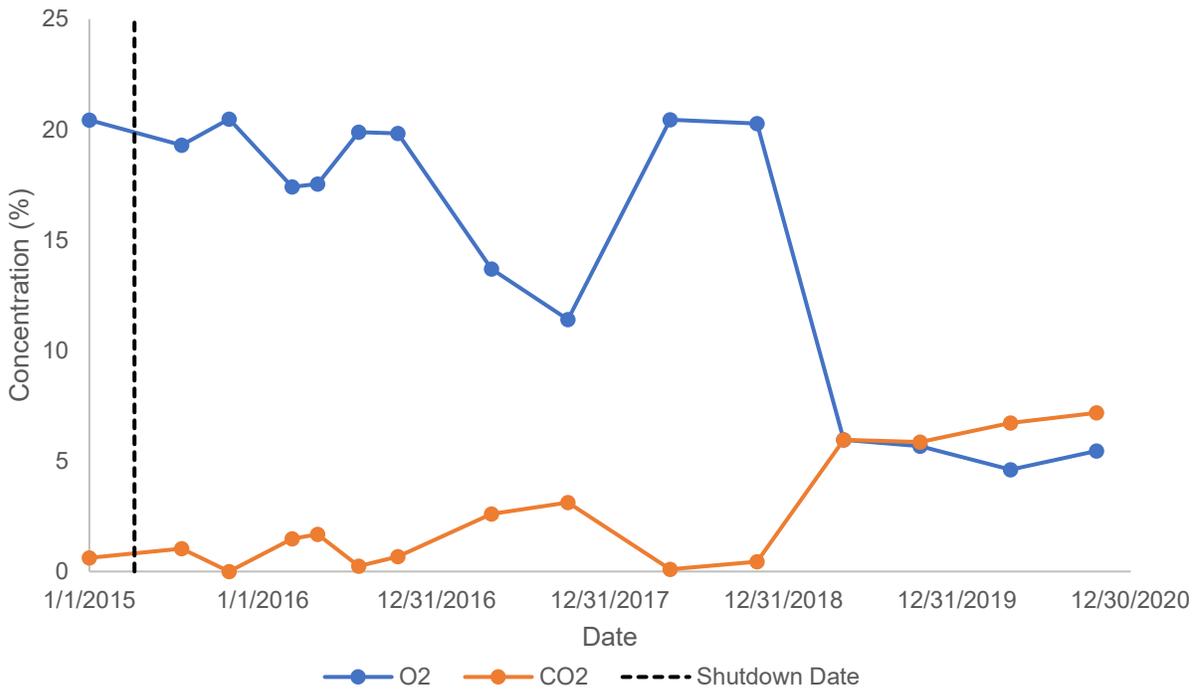
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**Oxygen and Carbon Dioxide Concentrations Over Time**



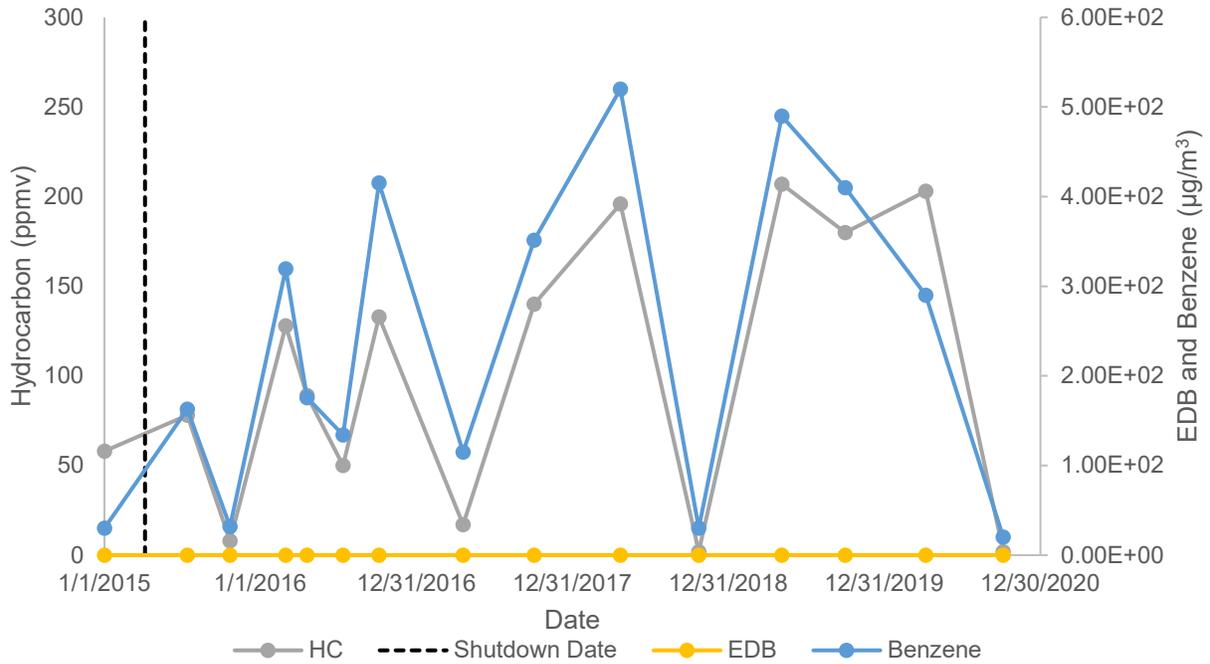
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



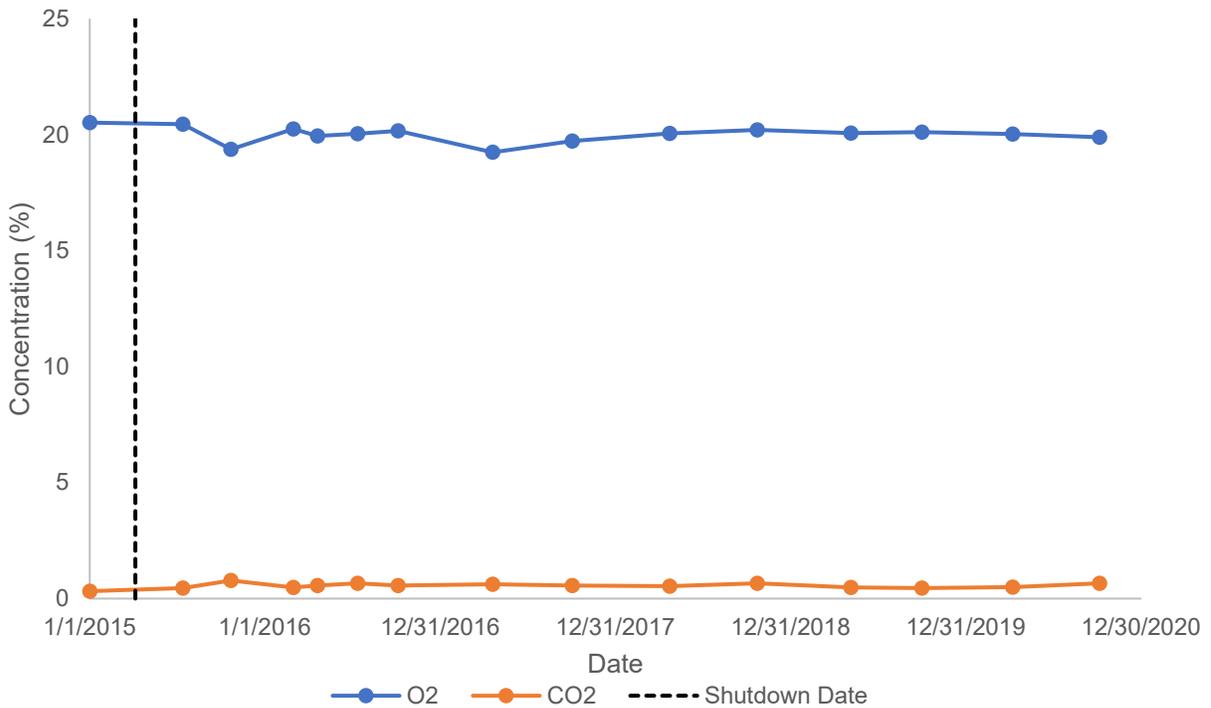
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**Oxygen and Carbon Dioxide Concentrations Over Time**



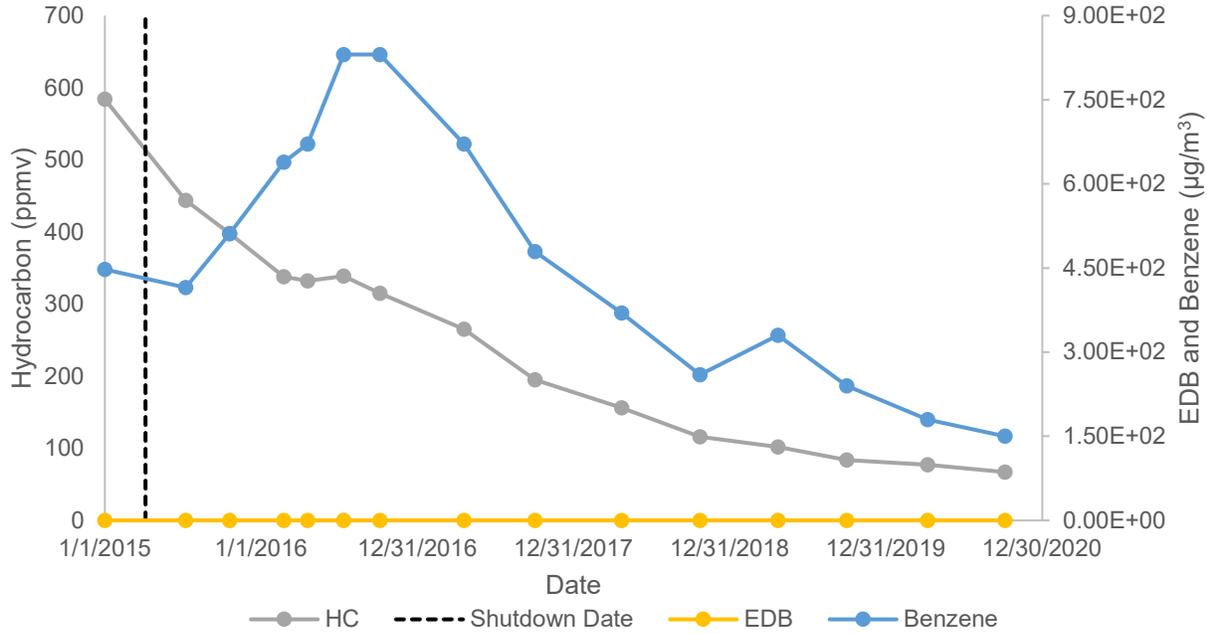
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



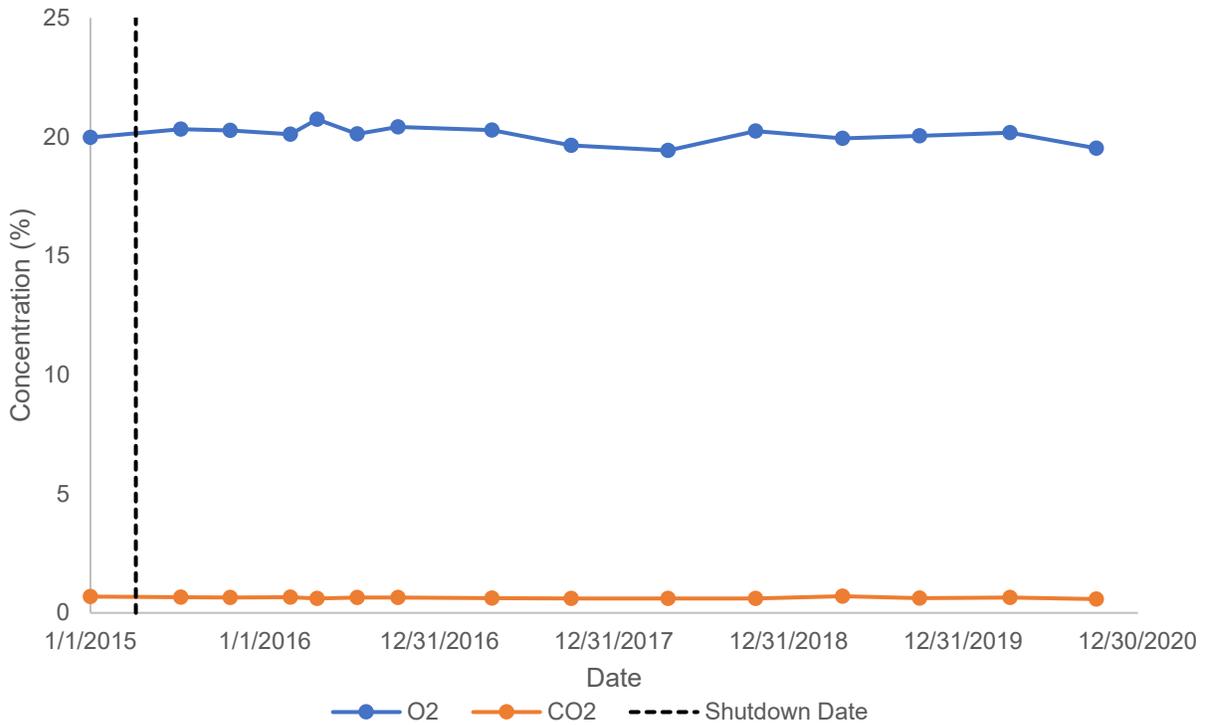
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**Oxygen and Carbon Dioxide Concentrations Over Time**



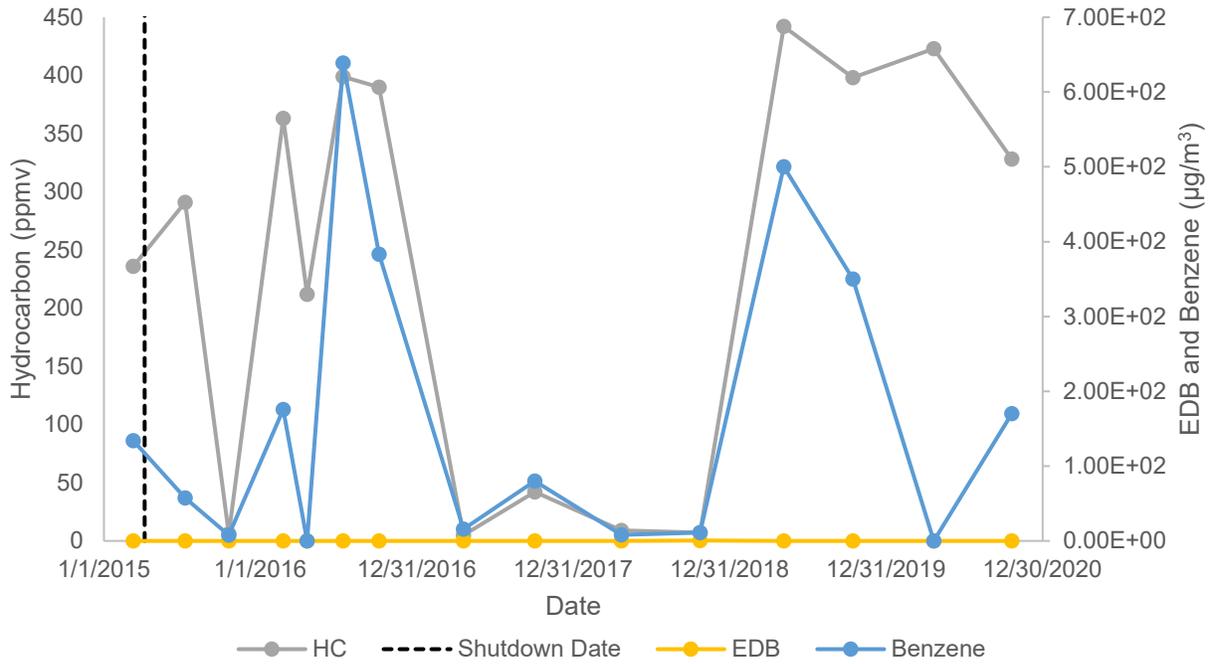
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



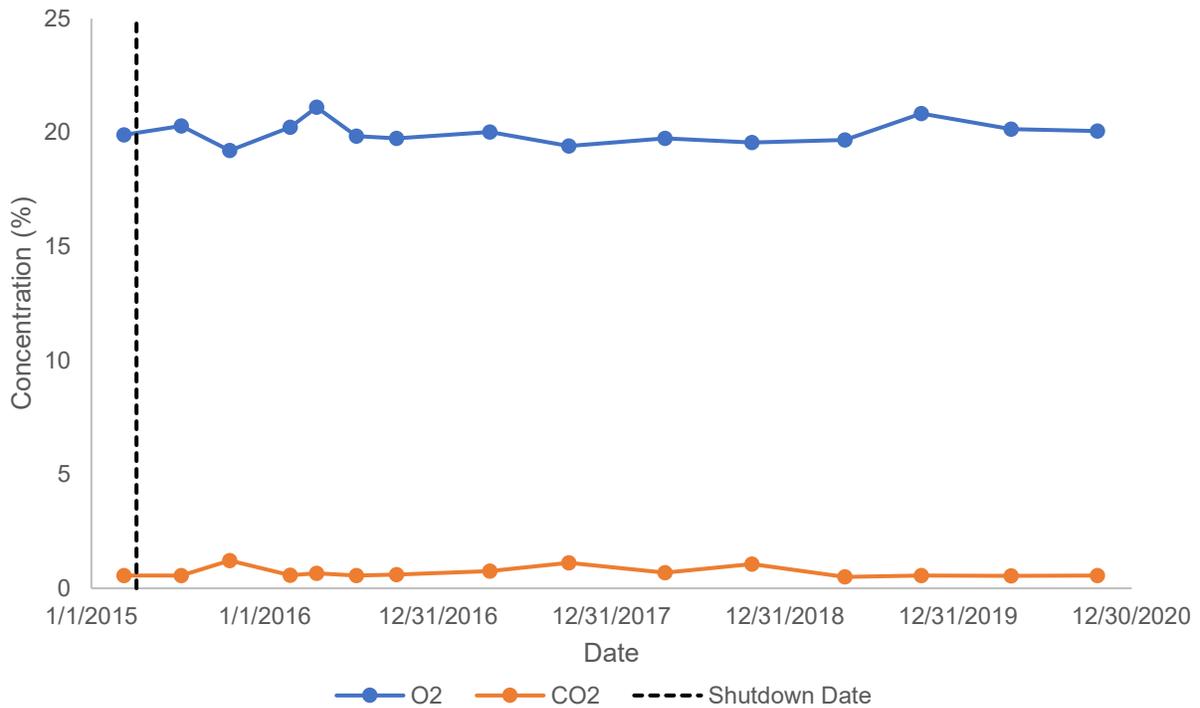
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**Oxygen and Carbon Dioxide Concentrations Over Time**



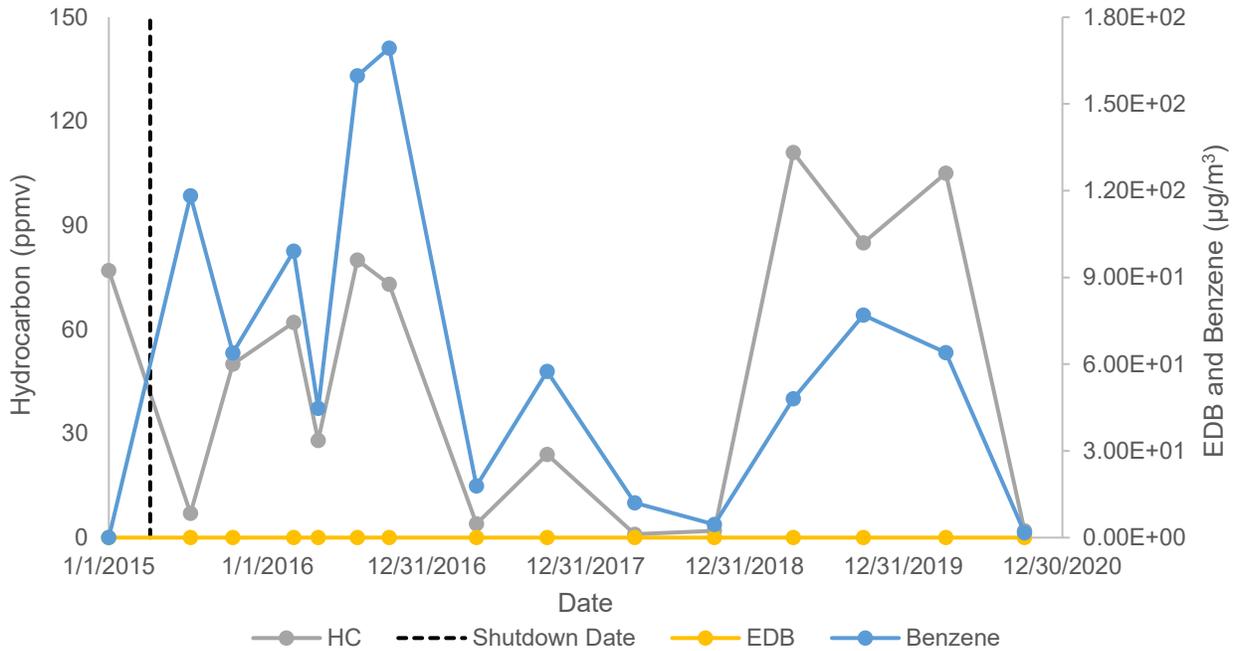
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



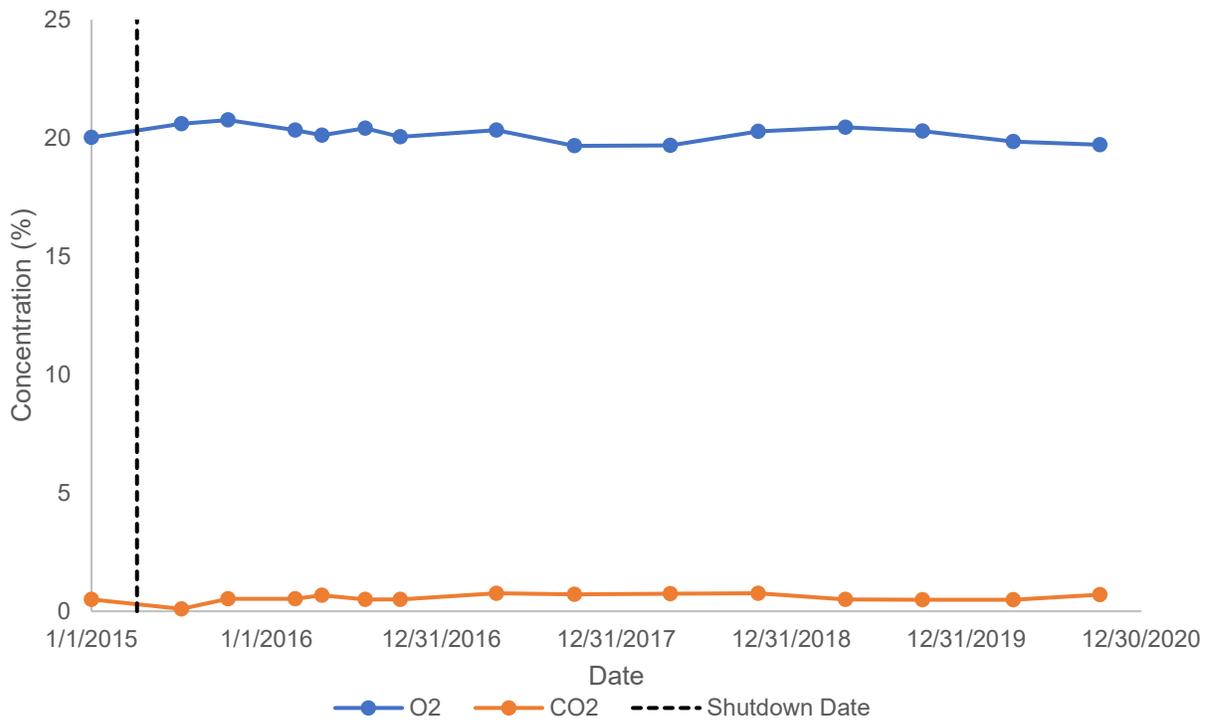
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**Oxygen and Carbon Dioxide Concentrations Over Time**



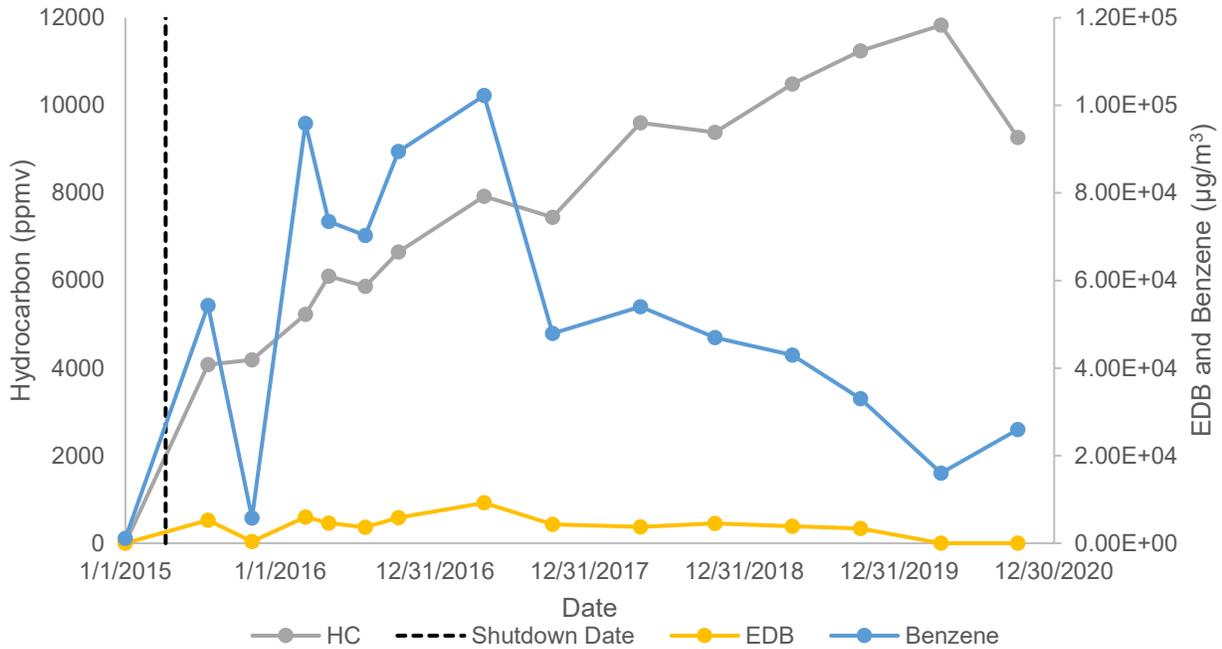
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



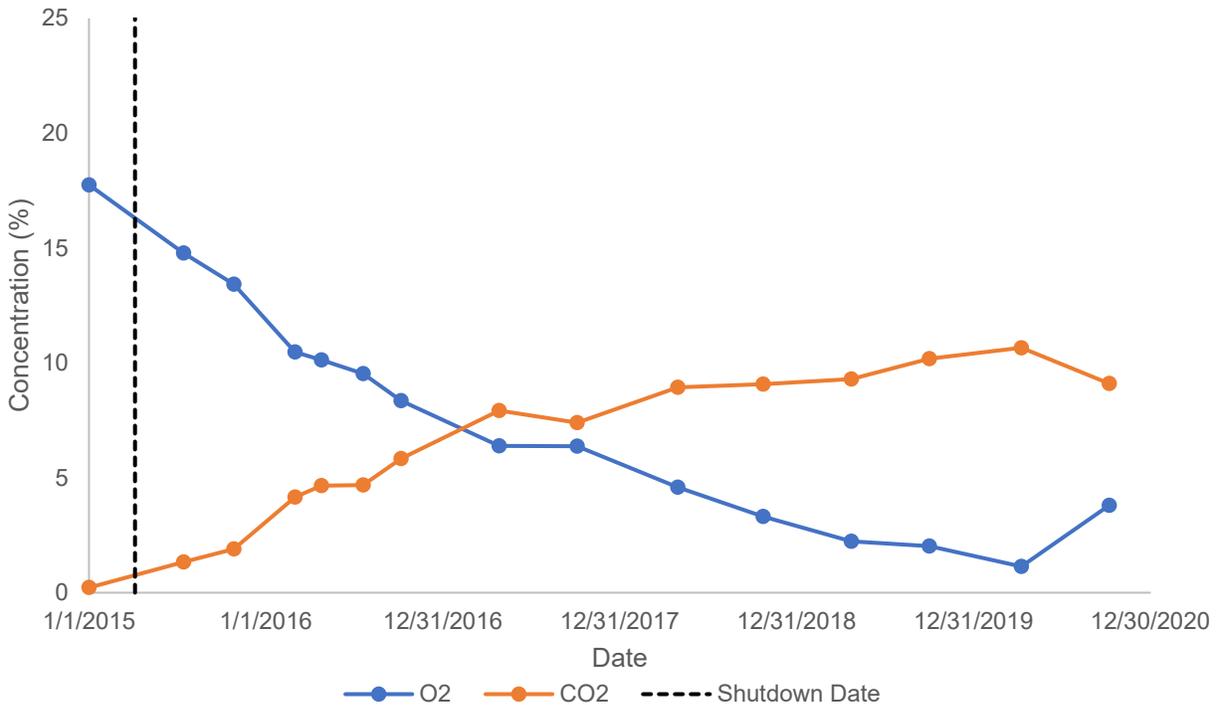
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**Oxygen and Carbon Dioxide Concentrations Over Time**



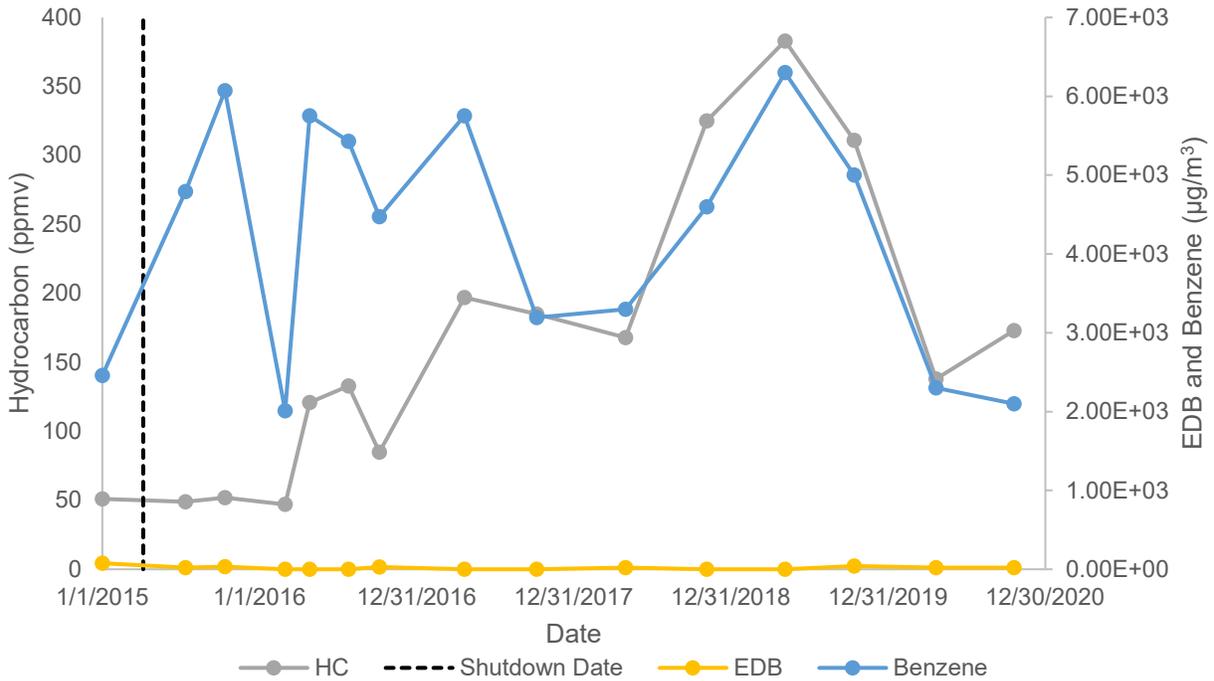
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



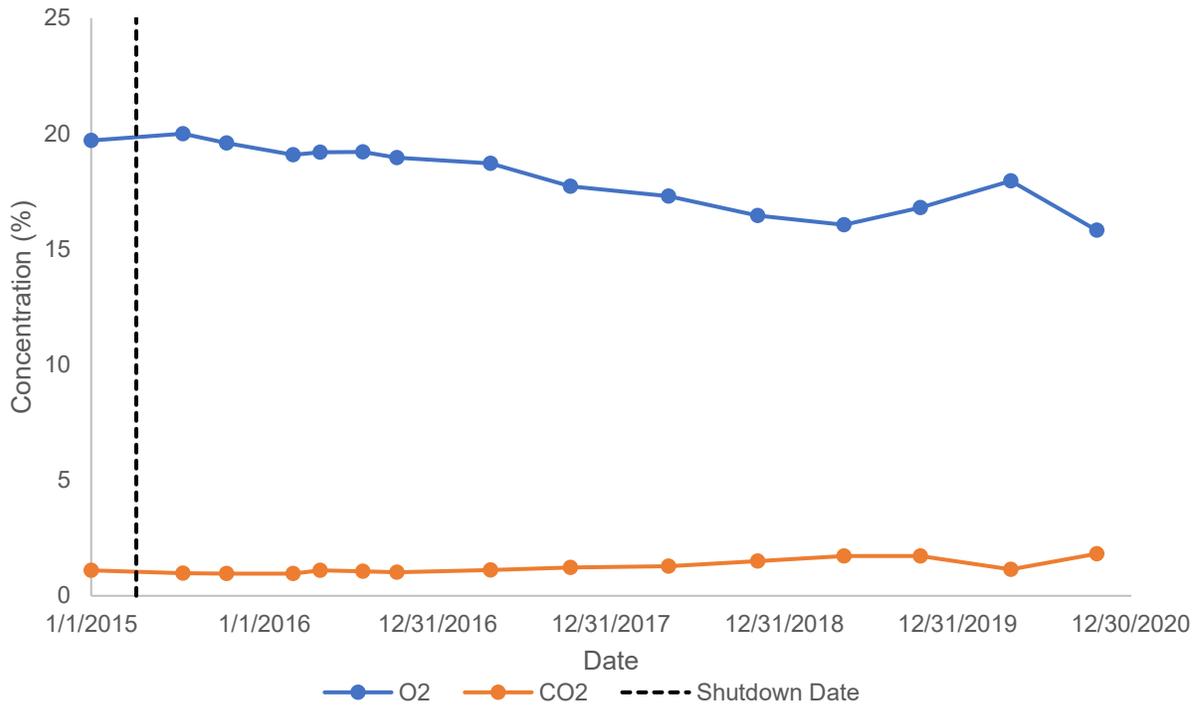
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**Oxygen and Carbon Dioxide Concentrations Over Time**



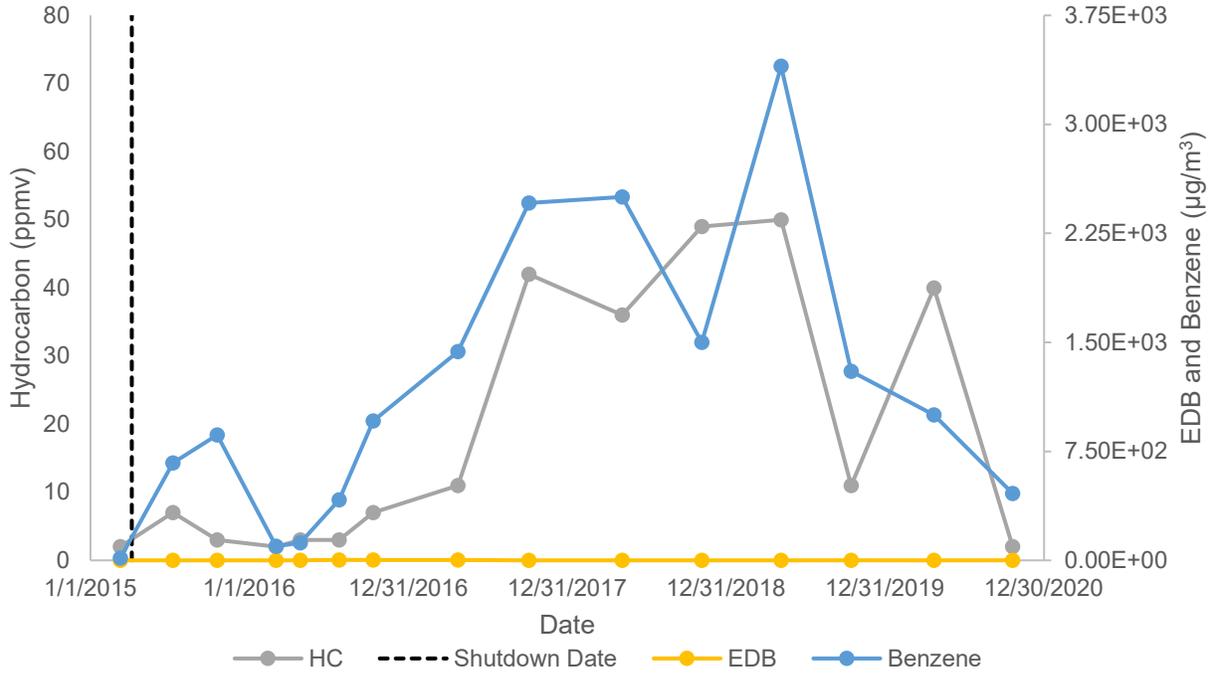
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



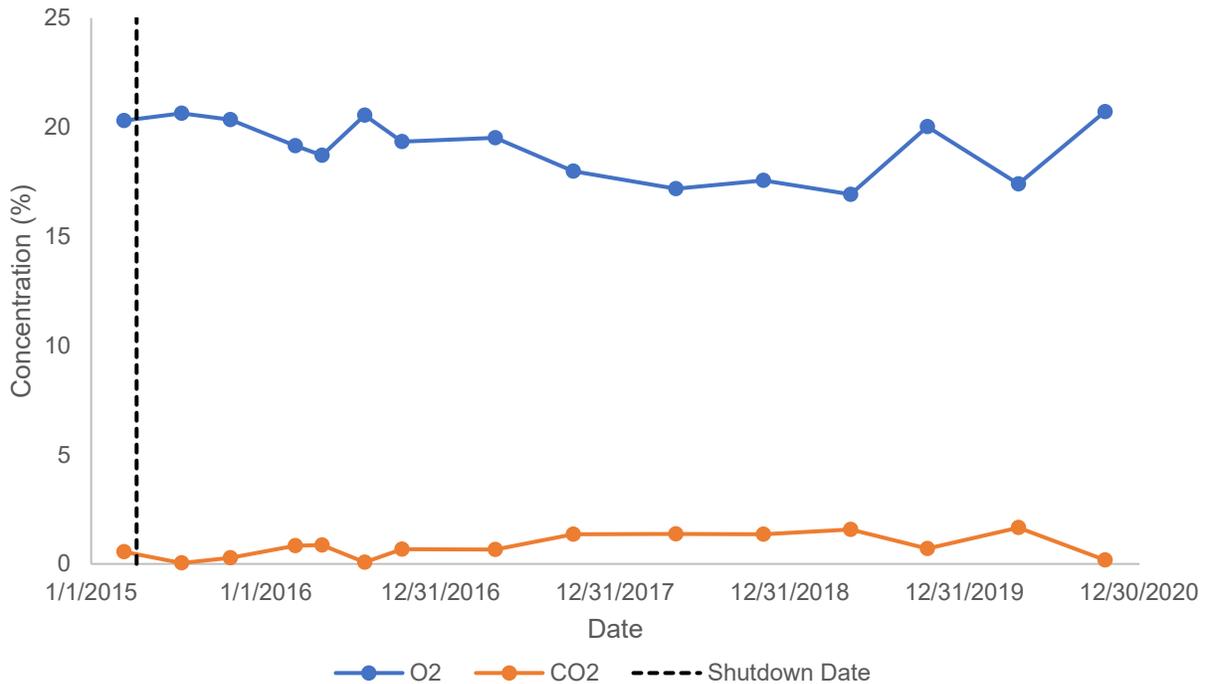
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**Oxygen and Carbon Dioxide Concentrations Over Time**



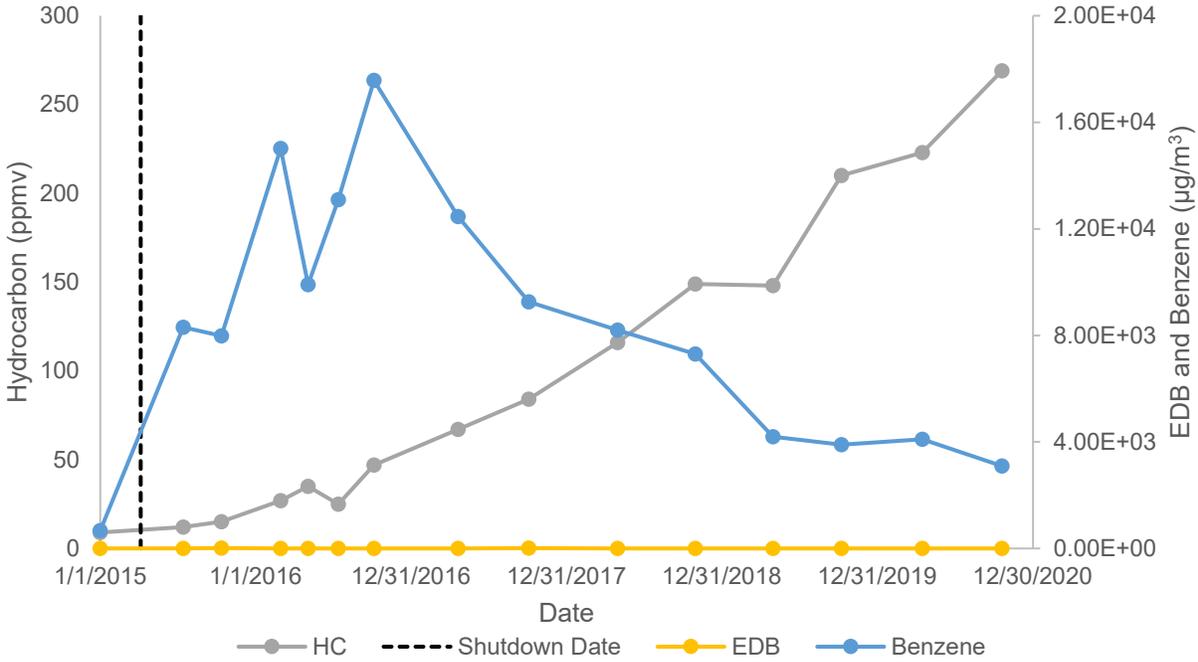
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



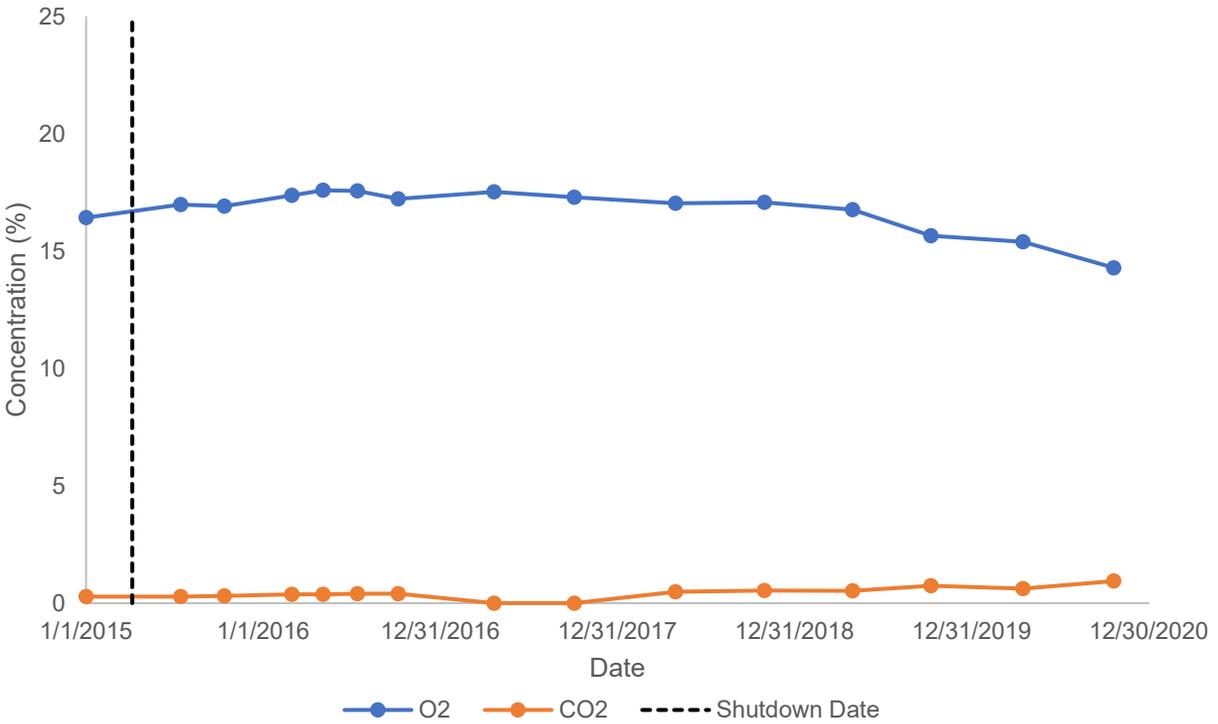
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**Oxygen and Carbon Dioxide Concentrations Over Time**



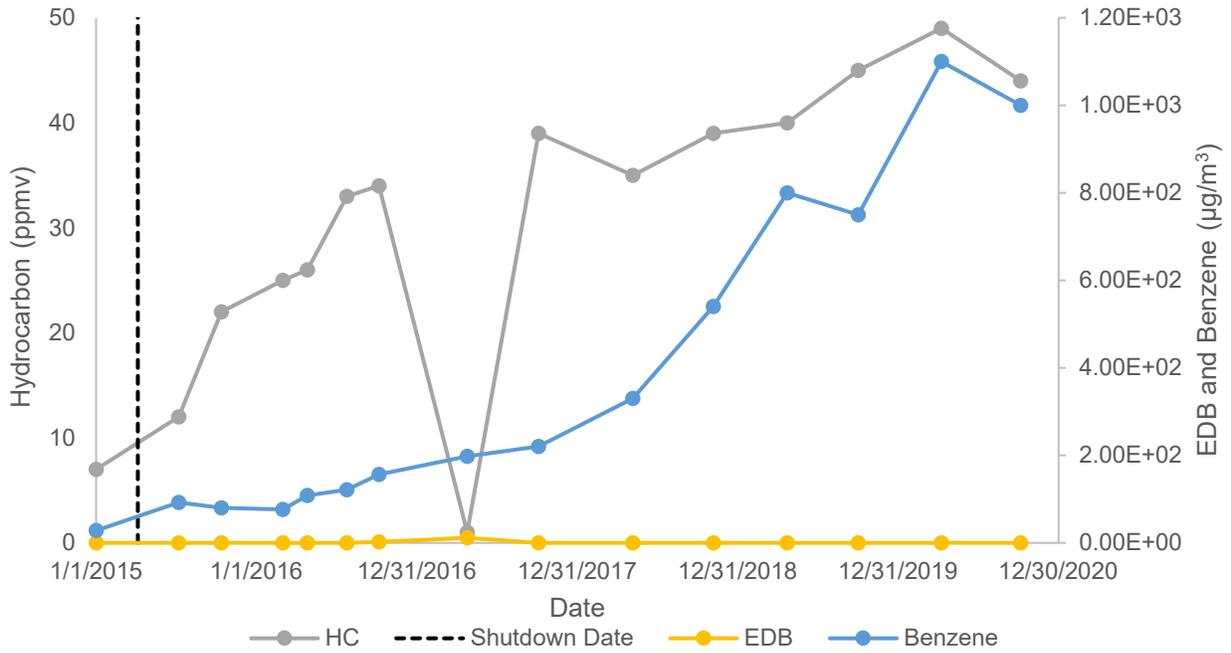
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



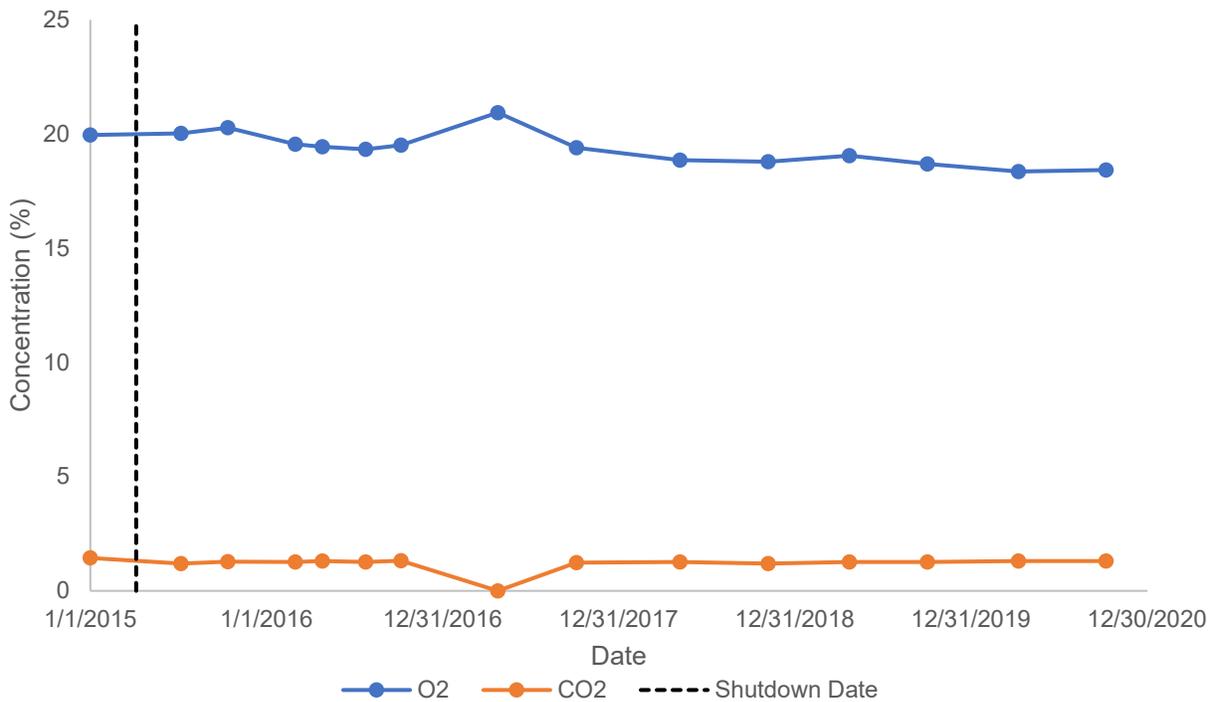
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**Oxygen and Carbon Dioxide Concentrations Over Time**



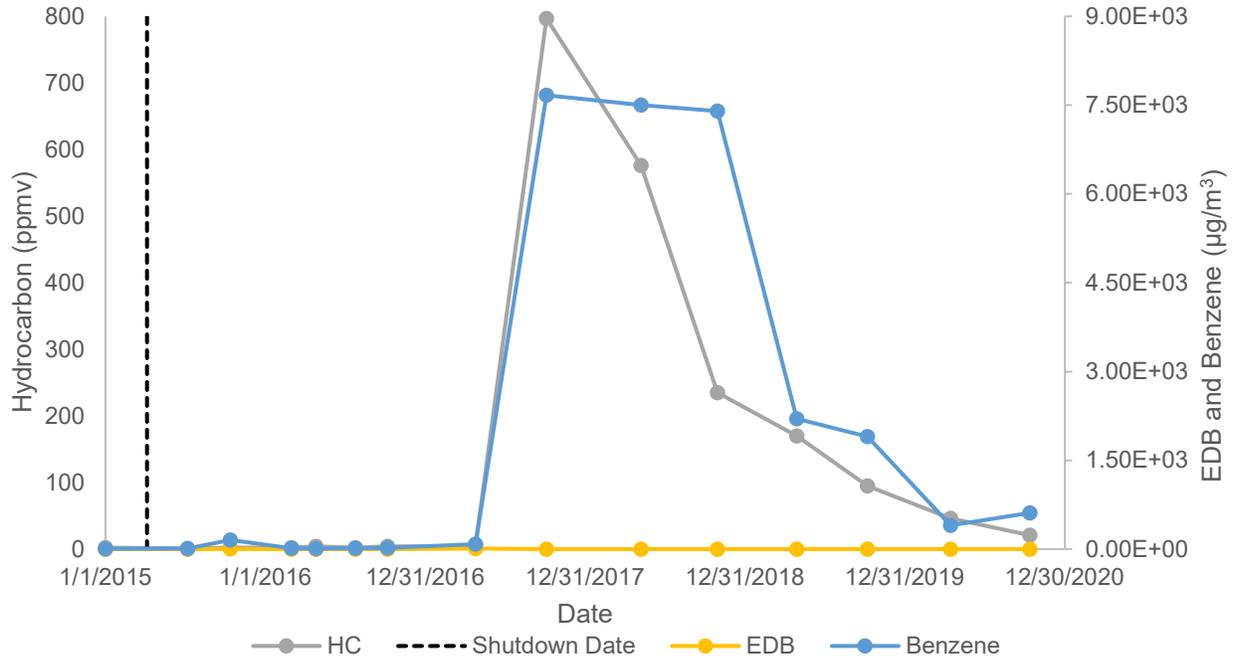
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



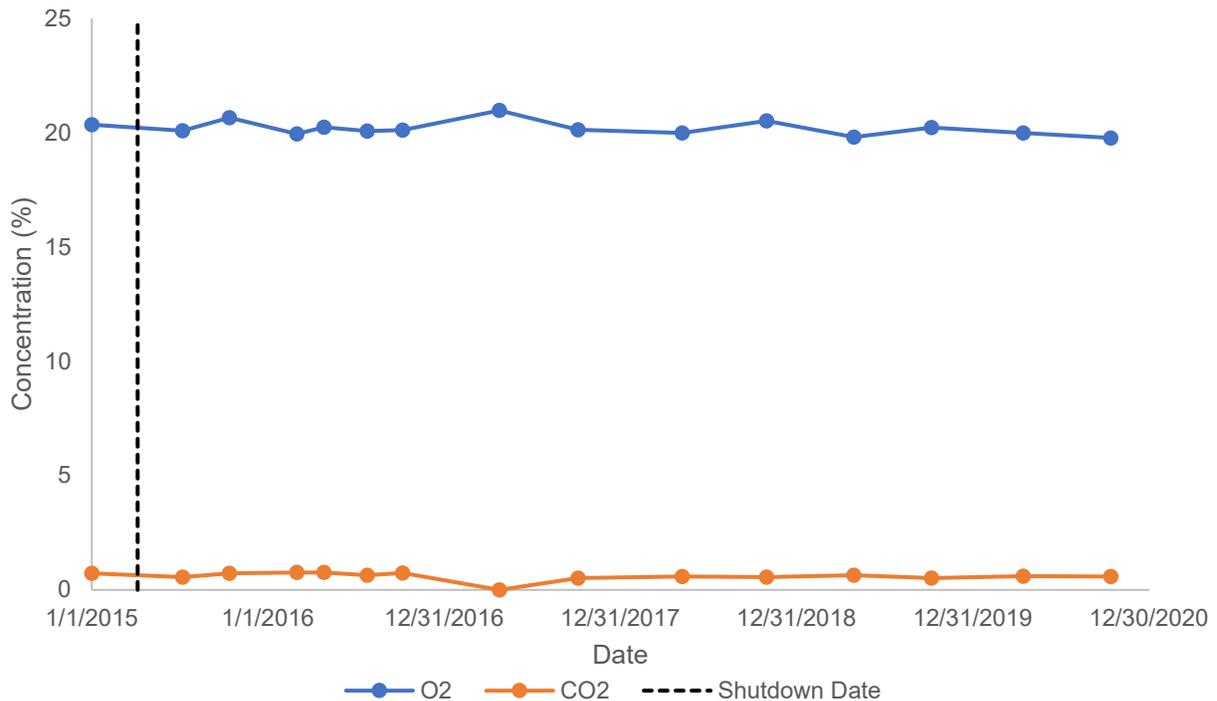
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**Oxygen and Carbon Dioxide Concentrations Over Time**



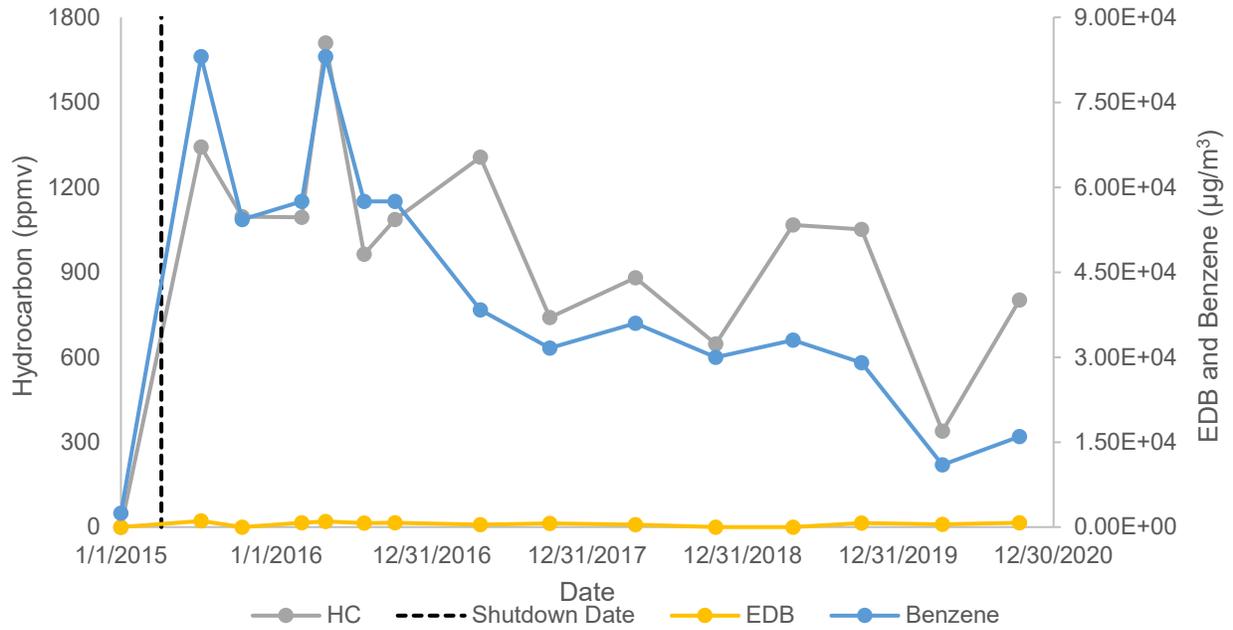
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



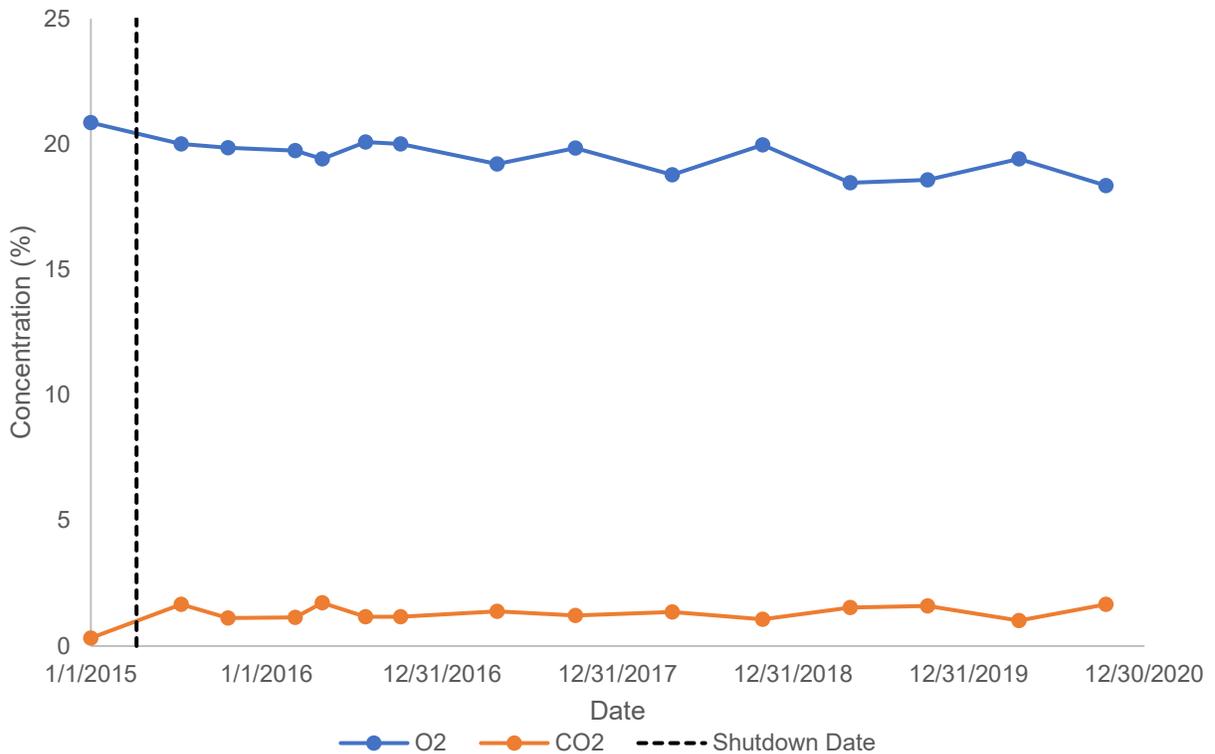
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**Oxygen and Carbon Dioxide Concentrations Over Time**



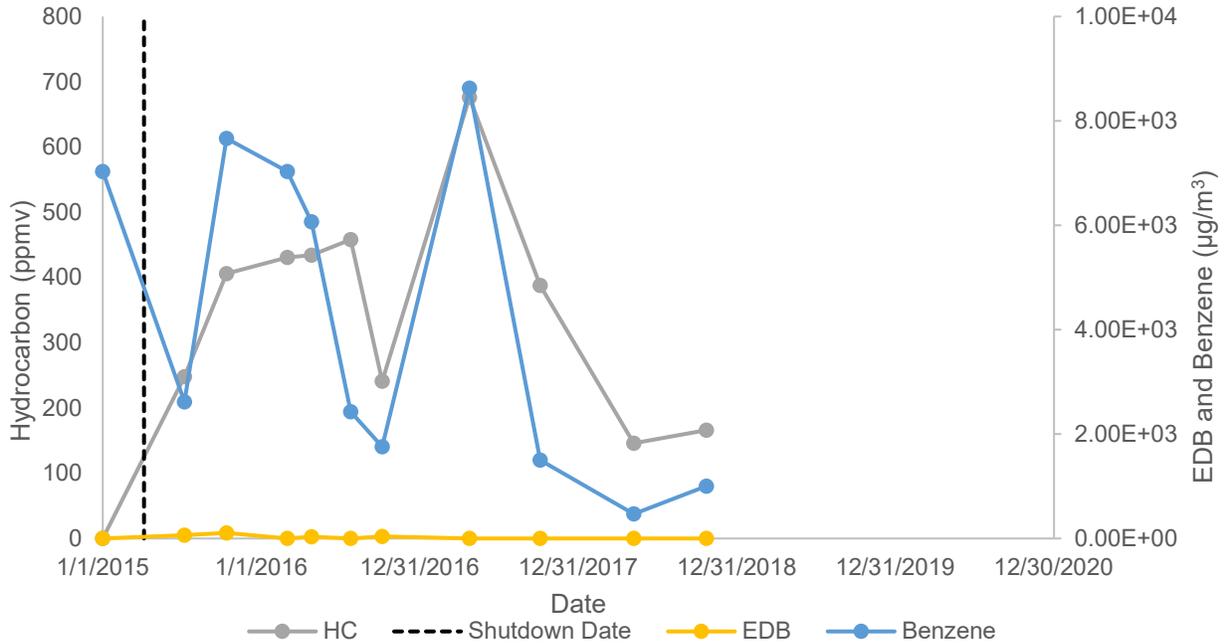
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



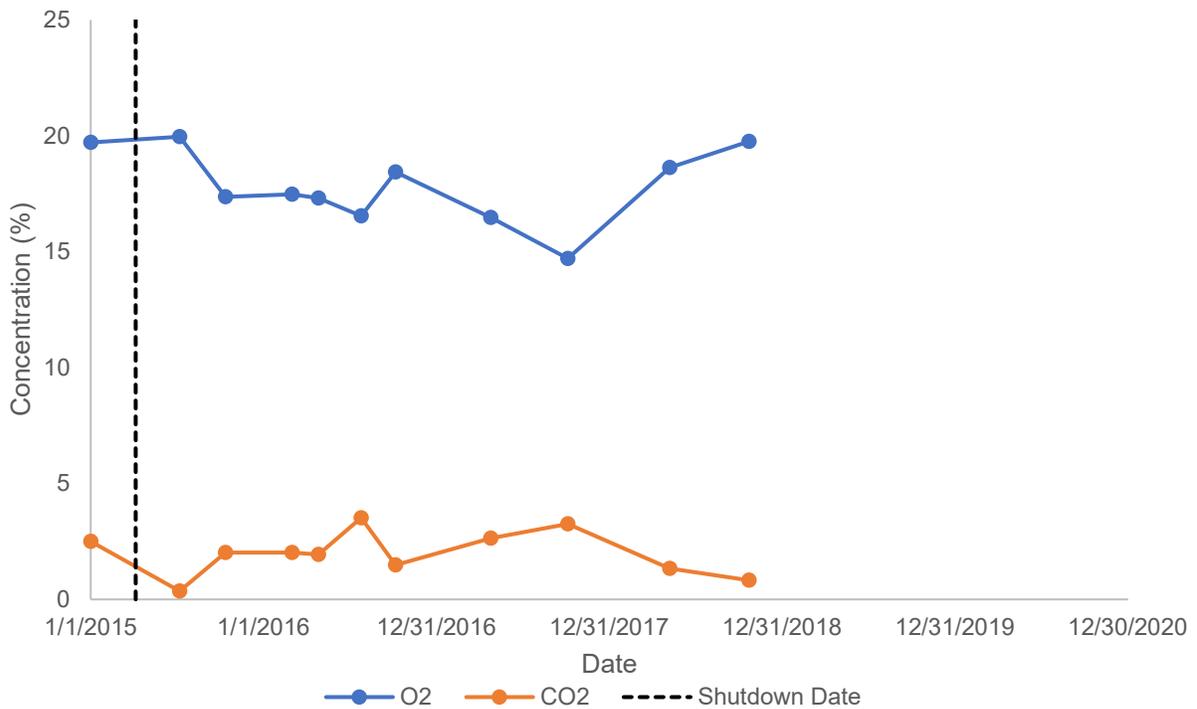
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**Oxygen and Carbon Dioxide Concentrations Over Time**



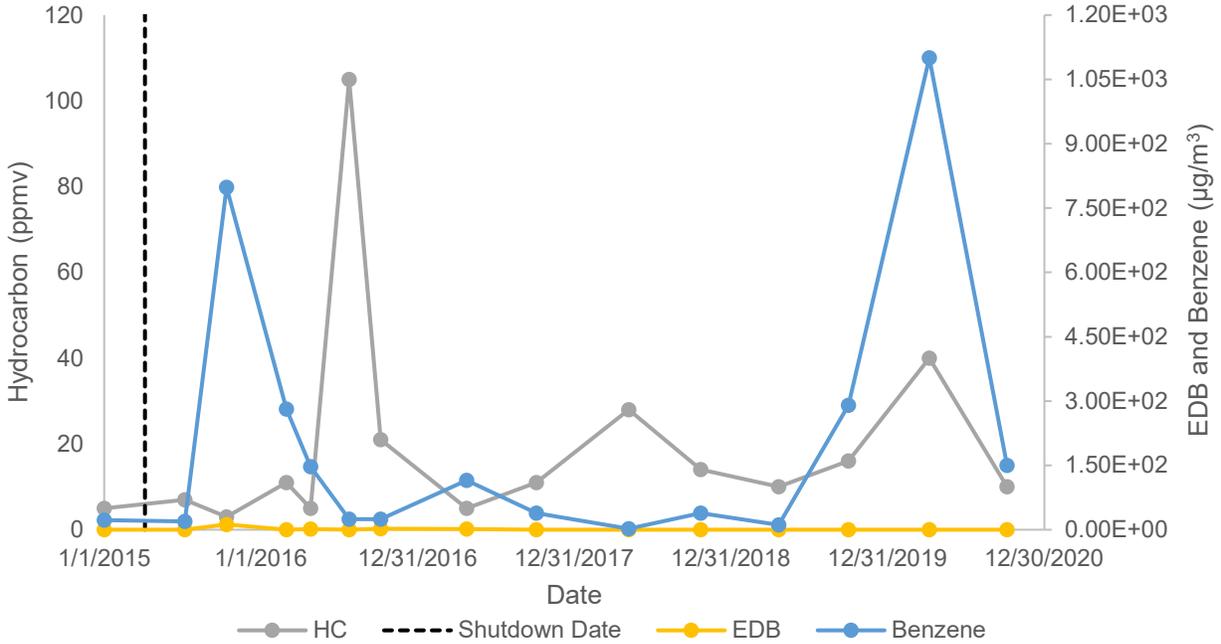
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



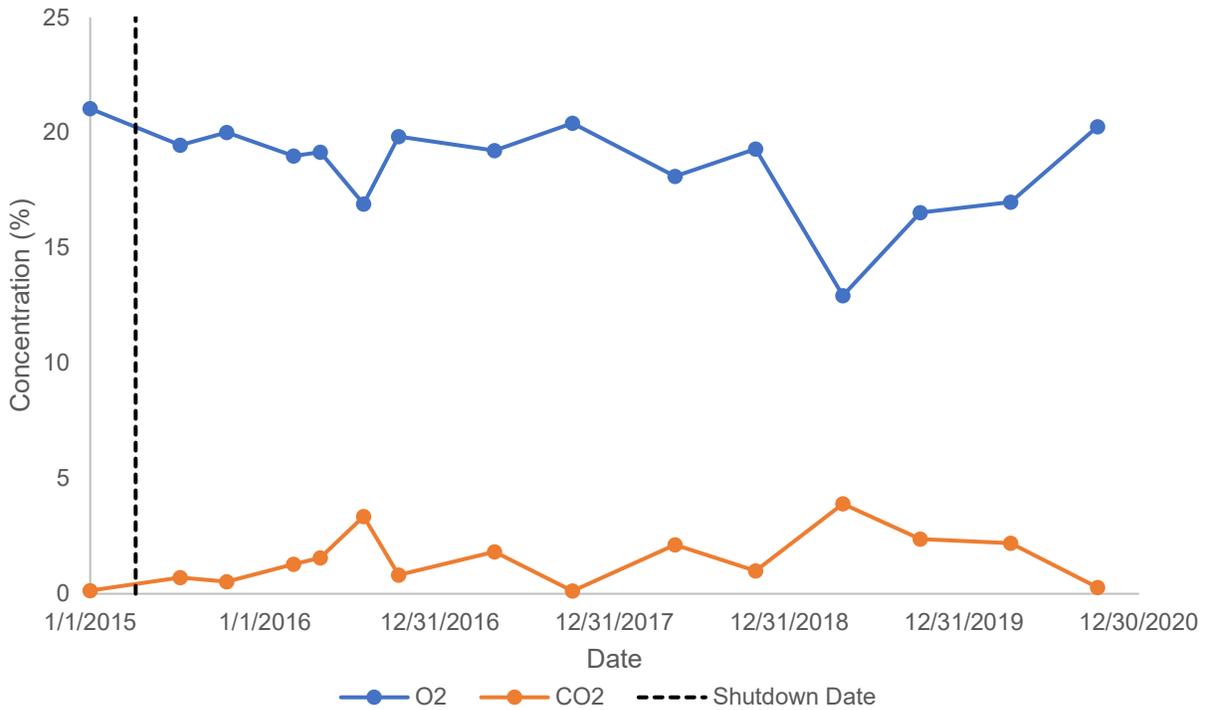
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**Oxygen and Carbon Dioxide Concentrations Over Time**



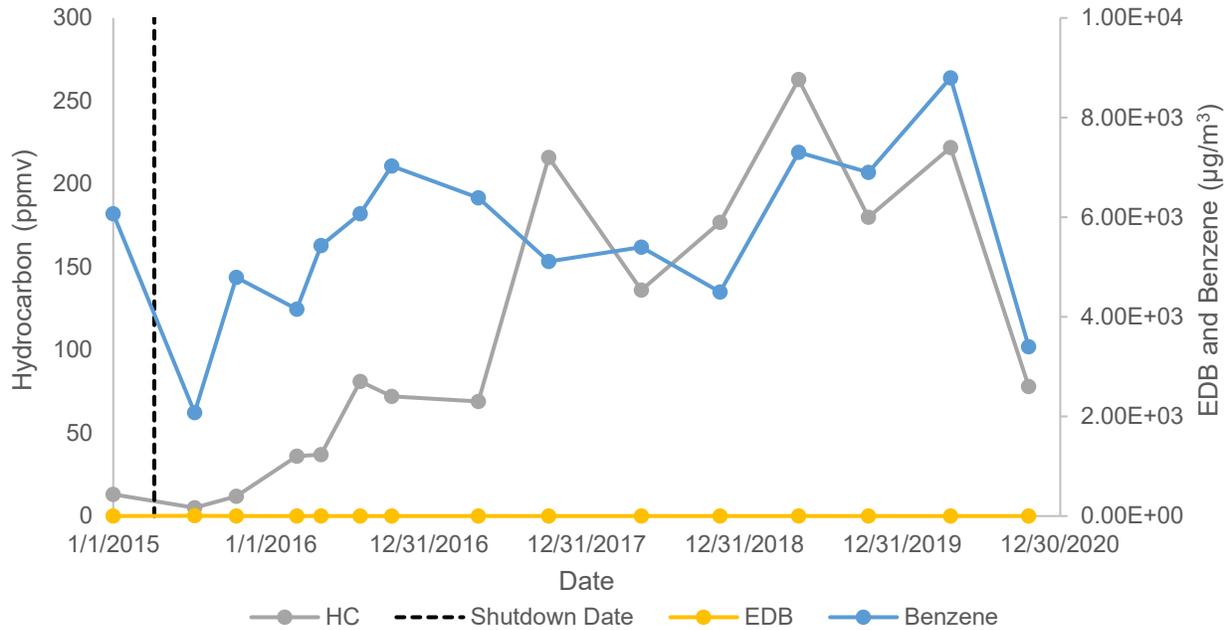
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



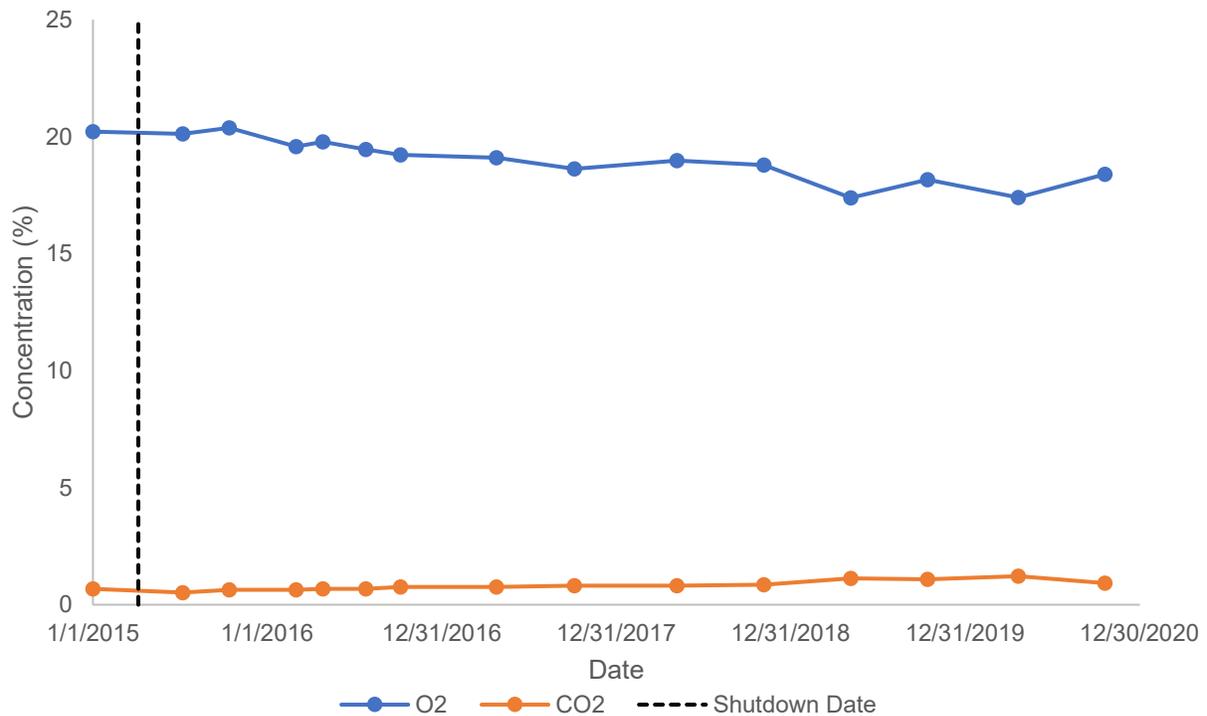
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**Oxygen and Carbon Dioxide Concentrations Over Time**



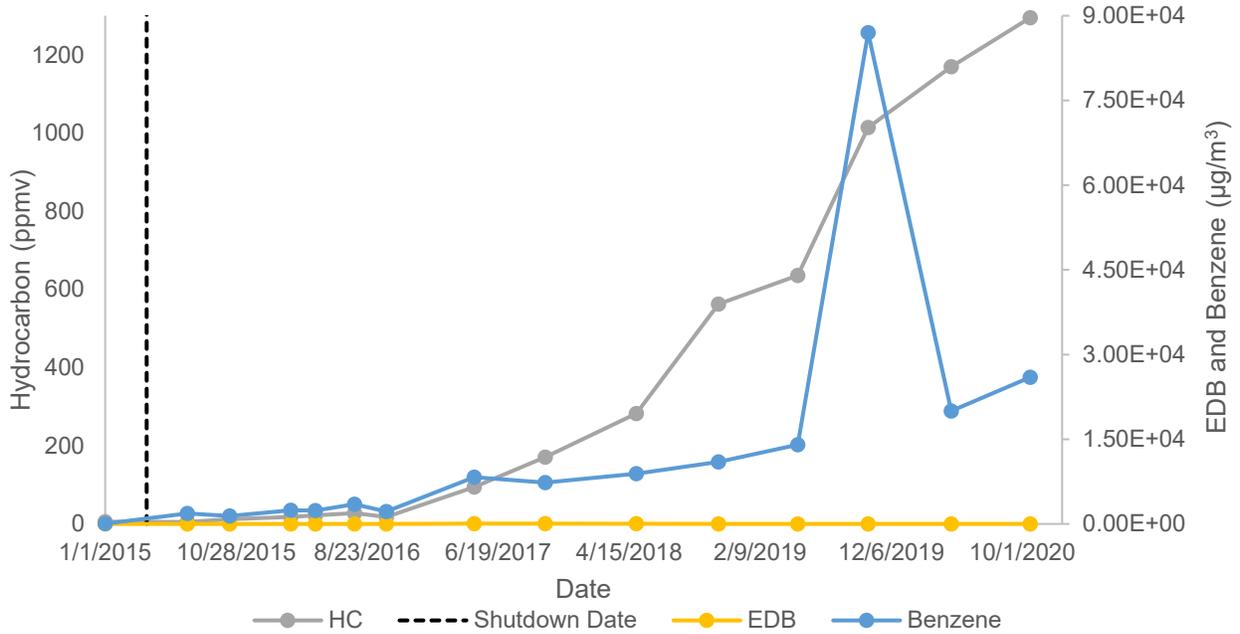
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



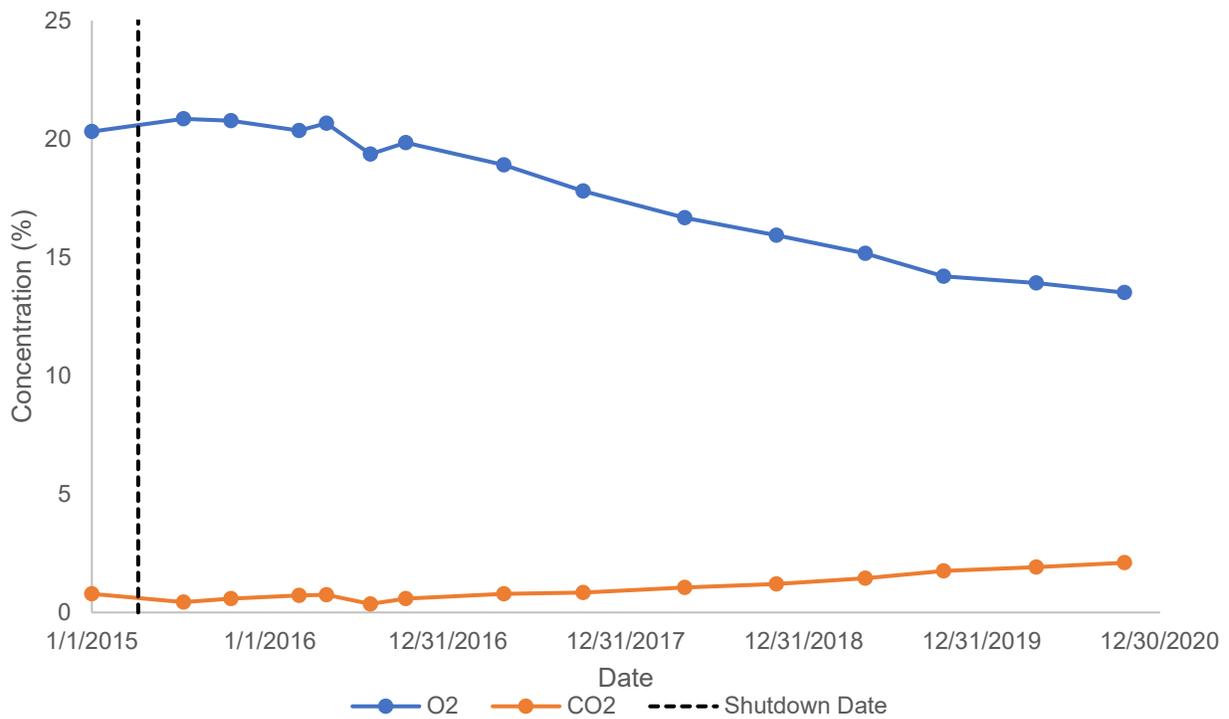
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**Oxygen and Carbon Dioxide Concentrations Over Time**



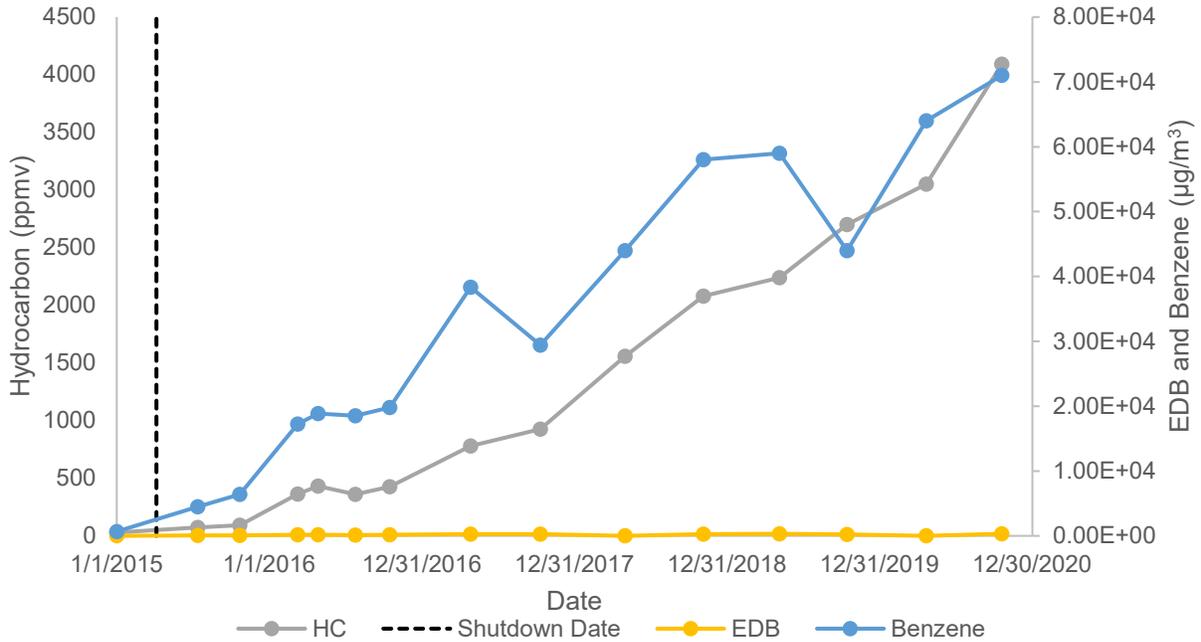
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**Hydrocarbon, EDB, and Benzene Levels Over Time**



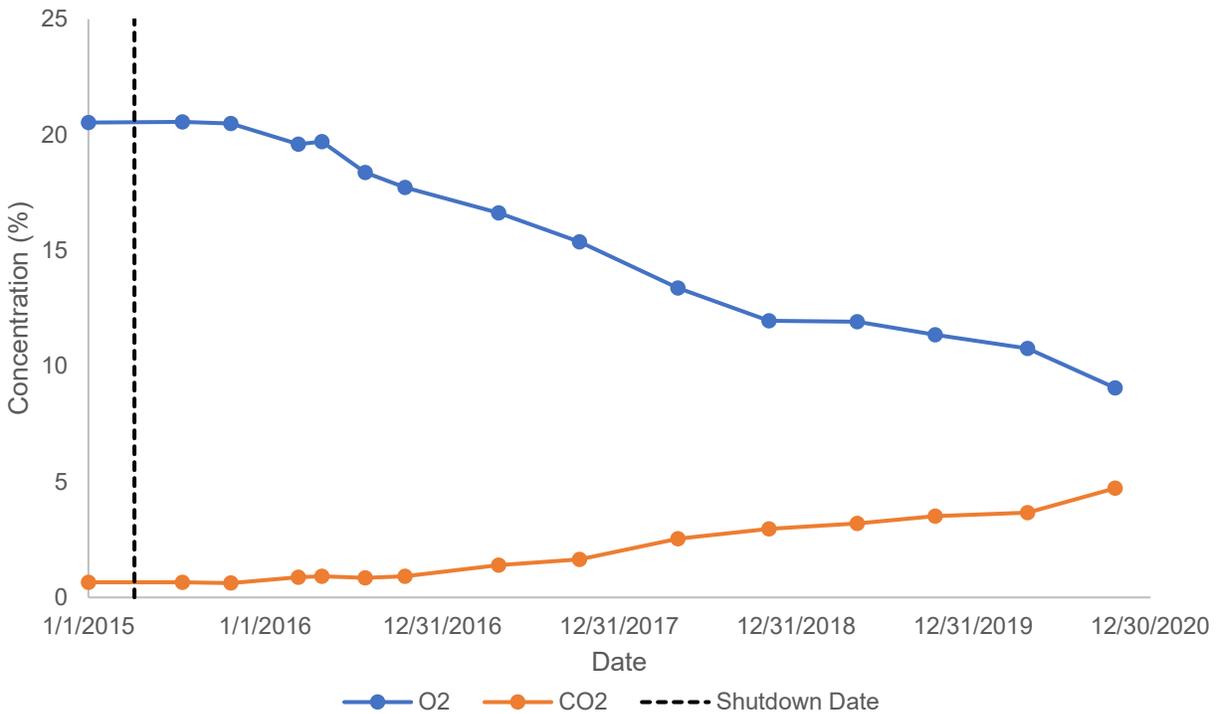
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**Oxygen and Carbon Dioxide Concentrations Over Time**



**Well ID: SVMW-15-450**  
**Hydrocarbon, EDB, and Benzene Levels Over Time**



**Well ID: SVMW-15-450**  
**Oxygen and Carbon Dioxide Concentrations Over Time**



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: DMS DEPLOYMENT

DATE: 9-14-2020

WEATHER: warm, clear skies - mid 80s (°F)

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Backish	EA - Site Manager/Supervisor
Pete Ferrari	EA - Site Health and Safety Office
Ang Rosebrough	EA - Field staff
Dylan Schmeelk	EA - Field staff

2. OPERATING EQUIPMENT			
Team #1	Team #2	Spare	
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>	
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input type="checkbox"/>	
Geotech Turbiditymeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>	
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input checked="" type="checkbox"/>	

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Wells deployed: KAFB-106236-489, KAFB-106236-470  
 KAFB-106236-470, KAFB-106235-438,  
 KAFB-106235-472, KAFB-106235-501,  
 KAFB-106209, KAFB-106208, KAFB-106207,  
 KAFB-106204, KAFB-106206, KAFB-106205,  
 KAFB-106222, KAFB-106203

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0803	Leave Trailer for KAFB-106235 and KAFB-106236
0810	Arrive at KAFB-106236
0930	Leave KAFB- <del>236</del> 106236 cluster for KAFB-106235 cluster
0933	Arrive at <sup>106235</sup> KAFB-106235 cluster

Reviewed by: [Signature]

Reviewed date: 9-15-20



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: DMS Deployment

DATE: 9-15-2020

WEATHER: clear skies, high ~ 85°F

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Bernard Bockish</u>	EA - Site Manager/Supervisor
<u>Pete Ferrari</u>	EA - Site Health and Safety Office
<u>Nylan Schmeelk</u>	EA - field staff
<u>Ang Rosebrough</u>	EA - field staff

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915798 WH0006 <input type="checkbox"/>
Geotech Turbiditymeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Wells deployed: KAFB-106026, KAFB-106<sup>230</sup>203<sup>AR</sup>, KAFB-106224, KAFB-106231, KAFB-106232, KAFB-106029, KAFB-106030, KAFB-106031, KAFB-106242, KAFB-106021, KAFB-106201, KAFB-202, KAFB-106203

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
<u>0735</u>	<u>Leave trailer for KAFB-106026 cluster</u>
<u>0745</u>	<u>Arrive at KAFB-106026 cluster</u>
<u>0823</u>	<u>Leave KAFB-106026 cluster for KAFB-106224</u>
<u>0820</u>	<u>Arrive at KAFB-<del>106224</del> 106224</u>

Reviewed by: 

Reviewed date: 9-16-20



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report – Non-Construction

ROLE: DMS deployment DATE: 9/16/2020

WEATHER: Clear skies, high ~ 89°F

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Bernard Bockish</u>	EA - Site Manager/Supervisor
<u>Pete Ferrari</u>	EA - Site Health and Safety Office
<u>Amy Vosebrough</u>	EA- field staff
<u>Nylan Schmeelk</u>	EA- field staff

2. OPERATING EQUIPMENT					
Team #1		Team #2		Spare	
YSI Professional Plus 18L100378 WH0003	<input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001	<input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002	<input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005	<input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004	<input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 WH0006	<input type="checkbox"/>
Geotech Turbiditymeter 18081855	<input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009	<input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007	<input type="checkbox"/>
Solinst Water Level Meter 253056	<input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012	<input checked="" type="checkbox"/>	Geotech Interface Probe 0001	<input checked="" type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Wells deployed: KAFB-106219, KAFB-106220, KAFB-106221, KAFB-106216, KAFB-106217, KAFB-106218, KAFB-106225, KAFB-106226, KAFB-106227, KAFB-106055, KAFB-106057, KAFB-106058, KAFB-106241-428

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

<u>0813</u>	<u>Leave trailer for KAFB-106219 cluster</u>
<u>0870</u>	<u>Arrive at KAFB-106219 cluster</u>
<u>0925</u>	<u>Leave KAFB-106219 cluster for KAFB-106216 cluster</u>
<u>0928</u>	<u>Arrive at KAFB-106216 cluster</u>

Reviewed by: jm

Reviewed date: 9-17-20







Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: DMS Deployment

DATE: 9/18/2020

WEATHER: clear skies, high ~ 85°F

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Bernard Beckish</u>	EA - Site Manager/Supervisor
<u>Pete Ferrari</u>	EA - Site Health and Safety Office
<u>Amy Roseborough</u>	EA - field staff
<u>Dylan Schmeelk</u>	EA - field staff

2. OPERATING EQUIPMENT			
Team #1	Team #2	Spare	
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>	
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input type="checkbox"/>	
Geotech Turbiditymeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>	
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>	

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

wells Deployed: KAFB-106015, KAFB-106049,  
KAFB-106050, KAFB-106051, KAFB-106025  
KAFB-106022, KAFB-106215, KAFB-106214,  
KAFB-106213, KAFB-106212, KAFB-106035  
KAFB-106036, KAFB-106037

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
<u>0740</u>	<u>leave trailer for KAFB-106015</u>
<u>0746</u>	<u>Arrive at KAFB-106015</u>
<u>0810</u>	<u>Leave KAFB-106015 for KAFB-106049 cluster</u>
<u>0813</u>	<u>Arrive at KAFB-106049 cluster</u>

Reviewed by: *JM*

Reviewed date: 9-18-20



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1 - Deployments

DATE: 9-21-2020

WEATHER: mid 80s (°F); clear sky

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Bernard Bockisch</u>	EA - Site Manager/Supervisor
<u>Peter Ferrari</u>	EA - Site Health and Safety Office
<u>Dylan Schmeelk</u>	EA-Sampler
<u>Joshua Messinger</u>	EA-Sampler
<u>AS</u>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input type="checkbox"/>
Geotech Turbiditymeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
-	<u>QC - dup deployed @ KAFB-106085</u>
-	<u>QC - dup deployed @ KAFB-106070</u>

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
<u>0737</u>	<u>left field office - 0744 Arrived @ KAFB-106085 cluster to deploy</u>
<u>0842</u>	<u>left KAFB-106085 cluster - 0843 Arrived @ KAFB-106070 cluster to deploy - 0937 left KAFB-106070 cluster</u>
<u>0942</u>	<u>Arrived @ KAFB-106089 cluster to deploy</u>

Reviewed by: Annanda Smith

Reviewed date: 11/5/2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1 - passive deployment

DATE: 9-22-20

WEATHER: mid 80s(°F); clear sky

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>B. Bochtisch</u>	EA - Site Manager/Supervisor
<u>P. Ferrari</u>	EA - Site Health and Safety Office
<u>J. Messenger / D. Schmeelt</u>	<del>EA</del> - Team #1

2. OPERATING EQUIPMENT					
Team #1		Team #2		Spare	
YSI Professional Plus 18L100378 WH0003	<input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001	<input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002	<input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005	<input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004	<input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 WH0006	<input type="checkbox"/>
Geotech Turbiditymeter 18081855	<input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009	<input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007	<input type="checkbox"/>
Solinst Water Level Meter 253056	<input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012	<input checked="" type="checkbox"/>	Geotech Interface Probe 0001	<input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

- QC - duplicate @ KAFB-106009

- QC - MS/MSMSD switched from KAFB-106005 to KAFB-106079

*[Handwritten signature]*

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
<u>0755</u>	<u>left field office - 0800 Arrived @ KAFB-106247</u>
<u>0843</u>	<u>left KAFB-106247 - 0845 Arrived @ KAFB-106001</u>
<u>0910</u>	<u>left KAFB-106001 - Arrived @ KAFB-106 <i>Jm</i></u>
<u>0917</u>	<u>Arrived @ field office to grab IP water level meter</u>

Reviewed by: Amanda Smith

Reviewed date: 11/5/2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: DMS Deployment

DATE: 9-30-2020

WEATHER: clear skies ~ 85°F high

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Bernard Backish</u>	EA - Site Manager/Supervisor
<u>Lele Ferrari</u>	EA - Site Health and Safety Office
<u>Amy Rosebraugh</u>	EA - field staff
<u>Dylan Schmaelk</u>	EA - field staff

AR

2. OPERATING EQUIPMENT					
Team #1		Team #2		Spare	
YSI Professional Plus 18L100378 WH0003	<input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001	<input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002	<input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005	<input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004	<input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006	<input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855	<input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009	<input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007	<input type="checkbox"/>
Solinst Water Level Meter 253056	<input checked="" type="checkbox"/>	Solinst Water Level Meter 253053 WH0012	<input checked="" type="checkbox"/>	Geotech Interface Probe 0001	<input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

<u>Wells Deployed:</u>	
<u>KAFB-106152-489, KAFB-10654, KAFB-10657, KAFB-10655</u>	
<u>KAFB-10653, KAFB-10652, KAFB-106151, KAFB-10659,</u>	
<u>KAFB-106149, KAFB-10651, KAFB-10658, KAFB-10653</u>	

AR

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

<u>0835</u>	<u>leave trailer KAFB-106152-489</u>
<u>0840</u>	<u>Arrive at KAFB-106152-489</u>
<u>0912</u>	<u>Leave KAFB-106152-489 for S-4 KAFB-10654</u>
<u>0917</u>	<u>Arrive at S-4 AR KAFB-10654</u>

Reviewed by: [Signature]

Reviewed date: 10-5-20

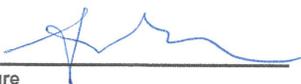
Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 9-30-2020

4. WORK PERFORMED (Continued)	
0945	Leave <del>at</del> <sup>KAFB-10654</sup> <del>5-4</del> for <del>5-7</del> <sup>AR</sup> KAFB-10657
0953	Arrive at KAFB-10657
1053	Leave KAFB-10657 for KAFB-10655
1055	Arrive at KAFB-10655
1128	Leave KAFB-10655 for KAFB-10653
1146	Arrive at KAFB-10653
1212	Leave <del>at</del> <sup>AR</sup> KAFB-10653 for KAFB- <del>10653</del> <sup>AR</sup> 10652
1215	Arrive at KAFB-10652
1243	leave KAFB-10652 for KAFB-10651
1246	Arrive at KAFB-10651
1320	Leave KAFB-10651 for KAFB-10659
1321	Arrive at KAFB-10659
1351	Leave KAFB-10659 for KAFB- <del>10659</del> <sup>AR</sup> 106149
1354	Arrive at KAFB-106149
1420	Leave KAFB-106149 for KAFB-10651
1421	Arrive at <del>10</del> <sup>AR</sup> KAFB-10651
1446	Leave KAFB-10651 for KAFB-10658
1447	Arrive at KAFB-10658
1521	Leave KAFB-10658 for KAFB-10653
1522	Arrive at KAFB-10653
1547	Leave KAFB-10653 for trailer
1552	Arrive at trailer

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name Amy Rosebraugh

Signature 

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: 

Reviewed date: 10-5-20

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10-1-2020

WEATHER: High of 81°F, wind SE @ 13 mph, and clear.

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Dylan Schweeth	EA-Sampler
Galveston Begaye	EA-Sampler

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 481100378 WH0003 <u>20H104723</u> <input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbiditymeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
1100	Sampled KAFB-106011
1313	Sampled KAFB-106044
1424	Sampled KAFB-106027
1601	Sampled KAFB-106016

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0918	Leave field trailers for KAFB-106011
0920	Arrive at KAFB-106011
1100	Sampled KAFB-106011
1128	Leave KAFB-106011 for field trailer

Reviewed by: jm

Reviewed date: 10-5-20



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10-2-2020

WEATHER: Warm and sunny with light breeze

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Dylan Schmeelk	EA - Sampler
Galveston Begaye	EA - Sampler
<del>_____</del>	
<del>_____</del>	

2. OPERATING EQUIPMENT					
Team #1		Team #2		Spare	
YSI Professional Plus 15L1003783 WH0003 <del>18L1003783</del> <u>20H104723</u>	<input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001	<input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002	<input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005	<input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004	<input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006	<input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855	<input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009	<input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007	<input checked="" type="checkbox"/>
Solinst Water Level Meter 253056	<input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012	<input checked="" type="checkbox"/>	Geotech Interface Probe 0001	<input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Wells sampled: KAFB-106012R  
KAFB-106 ~~106~~ 3411  
ER 204-01

~~\_\_\_\_\_~~

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
1000	Leave field trailer for KAFB-106012R
1004	Arrive at KAFB-106012R
1100	Sampled KAFB-106012R
1208	Leave KAFB-106012R for Gas station

Reviewed by: *JM*

Reviewed date: 10-5-20



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10-5-2020

WEATHER: High of 85°F, clear/hazy, wind WNW @ 7mph

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Dyt Bernard Beckish</u>	EA - Site Manager/Supervisor
<u>Peter Ferrari</u>	EA - Site Health and Safety Office
<u>Dylan Schueelk</u>	<del>EA - Dylan</del> <u>Sampler</u>
<u>Riley Wittler</u>	<u>Sundance - Sampler</u>
<del> </del>	<del> </del>
<del> </del>	<del> </del>

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
<u>0945</u>	<u>Sampled KAFB-106007</u>
<u>1221</u>	<u>Sampled KAFB-106038</u>
<u>1426</u>	<u>Sampled KAFB-106039</u>
<u>1526</u>	<u>Gate to exit field with KAFB-106038 cluster was chained and locked. Found exit along N-fence. Need to find contact info for owner of lock.</u>
<del> </del>	<del> </del>
<del> </del>	<del> </del>

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
<u>0759</u>	<u>Leave field trailers for KAFB-106007</u>
<u>805</u>	<u>Arrive at KAFB-106007</u>
<u>0945</u>	<u>Sampled KAFB-106007</u>
<u>1102</u>	<u>Leave KAFB-106007 for KAFB-106038 cluster</u>

Reviewed by: Jm

Reviewed date: 10-21-2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #2

DATE: 10-05-2020

WEATHER: clear no clouds 85°F

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bodrish	EA - Site Manager/Supervisor
Peter Ferran	EA - Site Health and Safety Office
Gabriel Begaye	TELH III
Justin Fitch	Sundance Consulting Inc
<u>OB</u>	
<u>10-05-2020</u>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100544 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915780 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbiditymeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Wells sampled: KAFB-106235-472, KAFB-106235-438  
 KAFB-106235-501, KAFB-106236-436, KAFB-106236-470,  
 KAFB-106249-106236-499, KAFB-106207, KAFB-106208  
 KAFB-106209-60

OB

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0815	Left trailer to KAFB-106235 nested wells
0825	Arrived at KAFB-106235 nested wells
0900	Sampled KAFB-106235-472
1015	Sampled KAFB-106235-438

Reviewed by: JM

Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
 Daily Quality Control Report - Non-Construction

DATE: 10-05-2020

4. WORK PERFORMED (Continued)	
1045	Sampled KAFB-106235-501
1110	Left KAFB-106235 noted wells for KAFB-106236
1116	Arrived at KAFB-106236 noted wells
1130	Sampled KAFB-106236-436
1200	Sampled KAFB-106236-470
1225	Sampled KAFB-106236-499
1250	Left KAFB-106236 noted to KAFB-106207 cluster
1300	Arrived at KAFB-106207 cluster
1320	Sampled KAFB-106207
1400	Sampled <del>KAFB-106208</del> left KAFB-106207 to
-	sampled <del>KAFB-106209</del> KAFB-106040 wells
1415	Arrived at KAFB-106040 wells
1420	Left KAFB-106040 wells to trailer
1435	Arrived at trailer
<p>END OF DAY</p> <p>10-05-2020</p>	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Galvador Beguero  
 Name

[Signature]  
 Signature

EA Engineering, Science and Technology Inc., PBC

Reviewed by: Jm

DQCR Page 2 of 2

Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10-6-2020

WEATHER: High of 85°F, clear, wind NW @ ~7 mph.

1. ONSITE PERSONNEL (including subcontractors and government employees)

Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Dylan Schueelk	EA - Samplers
Riley Wittler	Sundance - Samplers

2. OPERATING EQUIPMENT

Team #1		Team #2		Spare	
YSI Professional Plus 18L100378 WH0003	<input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001	<input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002	<input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005	<input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004	<input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006	<input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855	<input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009	<input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007	<input checked="" type="checkbox"/>
Solinst Water Level Meter 253056	<input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012	<input checked="" type="checkbox"/>	Geotech Interface Probe 0001	<input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

0743	Gather for safety talk.
0951	Sampled KAFB-106083
1206	Sampled KAFB-106082
1349	Sampled KAFB-106084

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0808	Arrive at Leave field trailers for KAFB-106083 cluster
0819	Arrive at KAFB-106083 cluster
0951	Sampled KAFB-106083
1206	Sampled KAFB-106082

Reviewed by: jm

Reviewed date: 10-21-2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #2

DATE: 10-06-2020

WEATHER: Clear no clouds 85°F

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Boskisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Garston Begaye	<i>[Signature]</i>
Justin Fitch	Sundance
<i>[Large Signature]</i>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915779 WH0006 <input type="checkbox"/>
Geotech Turbidity Meter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
<i>[Signature]</i>	Wells sampled: KAPB-106208, KAPB-106209, KAPB-106231, KAPB-106232, KAPB-106242, KAPB-106021, KAPB-106029, KAPB-106030, KAPB-106031, KAPB-106204, KAPB-106205
<i>[Large Signature]</i>	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0800	Left trailer to KAPB-106208 cluster
0811	Arrived at KAPB-106208 cluster
0845	Sampled KAPB-106208
0930	Sampled KAPB-106209

Reviewed by: *[Signature]*

Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10-06-2020

4. WORK PERFORMED (Continued)	
0945	Left HAFB-106209 cluster to HAFB-106231 cluster
0950	Arrived at HAFB-106231 cluster
1005	Sampled HAFB-106231
1035	Sampled HAFB-106232
1053	Left HAFB-106231 cluster to HAFB-106029 cluster <sup>242</sup>
1059	Arrived at HAFB-106029 cluster <sup>242</sup> <sub>OP</sub>
1115	sampled HAFB-106242 <sup>OP</sup>
1140	sampled HAFB-106021
1158	Left HAFB-106242 cluster to HAFB-106029 cluster
1200	Arrived at HAFB-106029 cluster
1230	sampled HAFB-106031
1310	sampled HAFB-106030
1340	sampled HAFB-106029
1350	Left HAFB-106029 cluster to HAFB-106204 cluster
1400	Arrived at HAFB-106204 cluster
1415	sampled HAFB-106205
1445	sampled HAFB-106204
1500	Left HAFB-106204 cluster to trailer
1515	Arrived at trailer END OF DAY
	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Calvin Beguy  
Name

[Signature]  
Signature

EA Engineering, Science and Technology Inc., PBC

Reviewed by: [Signature]

DQCR Page 2 of 2

Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10-7-2020

WEATHER: High of 84°F, clear, wind W @ ~2 mph

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Beckisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Dylan Schwoelk	EA - Sampler
Riley Wittler	Sundance - Sampler
<del>_____</del>	
<del>_____</del>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
0923	Sampled KAFB-106040
1111	Sampled KAFB-106096
1341	Sampled KAFB-106095
<del>_____</del>	
<del>_____</del>	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0740	leaving field trailer for gas station
0749	arrive at gas station on carlisie & gibson
0809	leaving gas station on carlisie & gibson for KAFB-1060040
0820	arrive at KAFB-1060040

Reviewed by: *Jm*

Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10-7-2020

4. WORK PERFORMED (Continued)	
0923	Sampled KAFB-106040
1011	Leave KAFB-106040 for KAFB-106096 cluster
1015	arrive at KAFB-106096 cluster
1111	Sampled KAFB-106096
1341	Sampled KAFB-106095
1452	leave KAFB-106095 for field trailer
1501	arrive at field trailer

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Dylan Schweelk  
Name

[Signature]  
Signature

EA Engineering, Science and Technology Inc., PBC

Reviewed by: [Signature]

DQCR Page 2 of 2

Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #2

DATE: 10-07-2020

WEATHER: 89°F N wind @ 7 mph clear

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Beckisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Charles Begaye	TECHN Sundance
Justin Fitch	
OB	

2. OPERATING EQUIPMENT			
Team #1	Team #2	Spare	
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>	
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915799 WH0006 <input type="checkbox"/>	
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>	
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>	

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
	wells sampled: KAFB-106201, KAFB-106202, KAFB-106203, KAFB-106219, KAFB-106220, KAFB-106221, KAFB-106216, KAFB-106217, KAFB-106218, KAFB-106225, KAFB-106226, KAFB-106227,
OB	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0750	1st KAFB trailer to KAFB-106201 cluster
0800	Arrived at KAFB-106201 cluster
0825	sampled KAFB-106201
0850	sampled KAFB-106202

Reviewed by: JM

Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10-07-2020

4. WORK PERFORMED (Continued)	
0915	Sampled KAFB-106203
0940	Left KAFB-106203 cluster to KAFB-106219 cluster
0950	Arrived at KAFB-106209 cluster
1005	Sampled KAFB-106219
1030	Sampled KAFB-106220
1055	Sampled KAFB-106221
1107	Left KAFB-106219 cluster to KAFB-106216 cluster
1110	Arrived at KAFB-106216 Cluster
1125	Sampled KAFB-106218
1155	Sampled KAFB-106217
1225	Sampled KAFB-106216
1300	Left KAFB-106216 cluster to Trailer
1310	Arrived at trailer
1315	Left trailer to Valero gas
1325	Arrived at Valero gas
1332	Left Valero gas to KAFB-106225 cluster
1340	Arrived at KAFB-106225 cluster
1400	sampled KAFB-106225
1435	sampled KAFB-106226
1500	sampled KAFB-106227
1510	Left KAFB-106225 cluster to trailer
1518	Arrived at trailer
 <span style="font-size: 2em; font-weight: bold;">END OF DAY</span>	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name Galveston Beyene

Signature 

EA Engineering, Science and Technology Inc., PBC

Reviewed by: 

DQCR Page 2 of 2

Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10/8/2020

WEATHER: 82° sunny, low humidity, low wind, high 84° low 54°

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Dylan Schwedf	EA sampler
Riley Wittler	Sundance sampler

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
<del>0825</del>	<del>leave field trailer for</del> <u>rew</u>
0933	sampled KAFB-106019
1219	sampled KAFB-106045

4. WORK PERFORMED (indicate location, time, and description of work performed by prime and/or subcontractors)	
0825	leave field trailer for KAFB-106019
0834	arrive at KAFB-106019
1047	leave KAFB-106019 for KAFB-106045
1101	arrive at KAFB-106045

Reviewed by: *jm*

Reviewed date: 10/14/2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #2

DATE: 10-08-2020

WEATHER: 85°F wind SSW 6 MPH sunny

**1. ONSITE PERSONNEL (including subcontractors and government employees)**

Name	Organization
Bernard Boukissch	EA - Site Manager/Supervisor
peter ferrari	EA - Site Health and Safety Office
Gabrielson Beuze	TECH III
Justin Fitch	Sundance
<i>[Large signature]</i>	

**2. OPERATING EQUIPMENT**

Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 18L101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input checked="" type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

**3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)**

wells sampled: KAFB-106032, KAPB-106033,  
KAPB-106034, KAPB-106042, KAPB-106041,  
KAPB-106106, KAPB-106055, KAPB-106057,  
KAPB-106058, KAPB-106092, KAPB-106093

*[Large signature]*

**4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)**

0755	1st trailer to KAPB-106033 cluster
0808	Arrived at KAPB-106033 cluster
0820	sampled KAPB-106032
0905	sampled KAPB-106033

Reviewed by: JM

Reviewed date: 10/14/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10-08-2020

4. WORK PERFORMED (Continued)	
0925	sampled KAPB-106034
0950	left KAPB-106033 cluster to KAPB-106041 cluster
0955	Arrived at KAPB-106041 cluster
1015	sampled KAPB-106041
1030	sampled KAPB-106042
1055	left KAPB-106041 cluster to KAPB-106106 cluster
1058	Arrived at KAPB-106106 cluster
1120	sampled KAPB-106106
1135	left KAPB-106106 to KAPB-106055 cluster
1140	Arrived at KAPB-106055 cluster
1200	sampled KAPB-106058
1240	sampled KAPB-106055
1300	sampled KAPB-106057
1315	left KAPB-106055 cluster to KAPB-106093 cluster
1320	Arrived at KAPB-106093 cluster
—	sampled KAPB-106091 unable due to vehicle on it
1340	sampled KAPB-106093
1400	sampled KAPB-106091 106092
1415	left KAPB-106093 cluster to KAPB trailer
1425	Arrived at KAPB trailer
END of DAY	
OB	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications above.

Gabriel Beyage  
Name

[Signature]  
Signature

EA Engineering, Science and Technology Inc., PBC

Reviewed by: jm

DQGR Page 2 of 2

Initials: jm

Reviewed date: 10/14/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10/09/2020

WEATHER: high of 84°F, clear, light breeze

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Backisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
<del>W/B</del> Dylan Schmeek	EA sampler
Riley Wittler	Sundance sampler
<del> </del>	
<del> </del>	
<del> </del>	

2. OPERATING EQUIPMENT					
Team #1		Team #2		Spare	
YSI Professional Plus 18L100378 WH0003	<input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001	<input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002	<input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005	<input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004	<input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006	<input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855	<input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009	<input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007	<input checked="" type="checkbox"/>
Solinst Water Level Meter 253056	<input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012	<input checked="" type="checkbox"/>	Geotech Interface Probe 0001	<input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

<u>0820</u>	<u>+</u>
<u>1238</u>	<u>Sampled KAFB-106037</u>
<del> </del>	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

<u>0800</u>	<u>leave field trailer for KAFB-106077</u>
<u>0803</u>	<u>arrive at KAFB-106077</u>
<u>0820</u>	<u>leave KAFB-106077 for field trailer</u>
<u>0824</u>	<u>arrive at field trailer</u>

Reviewed by: *jm*

Reviewed date: 10/14/2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: 10-09-2020 Team #2

DATE: 10-09-2020

WEATHER: 86°F Sunny

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Quinten Bezye	TECH III
STEVEN NANNAN	Sundance

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WF0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input type="checkbox"/>
Geotech Turbidity Meter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Wells sampled = KAPB-106037, KAPB-106035, KAPB-106091, KAPB-106229, KAPB-106022, KAPB-106212, KAPB-106053, KAPB-106054

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0805 leave trailer to KAPB-106091

0813 Arrived at KAPB-106091

sample can't proceed, car on well, asked to move, no one around; left to KAPB-106037 cluster

Reviewed by: Jm

Reviewed date: 10/14/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report -- Non-Construction

4. WORK PERFORMED (Continued)		DATE: 10-09-2020
0820	Arrived at KAPB-106037 cluster	
0850	sampled KAPB-106037	
0955	sampled KAPB-106035	
1025	left KAPB-106037 cluster to KAPB-106091	
1028	Arrived at KAPB-106091	
1045	sampled KAPB-106091	
1120	left KAPB-106091 to KAPB-106229	
1122	Arrived at KAPB-106229	
1140	sampled KAPB-106229	
1150	left KAPB-106229 to KAPB-106022	
1152	Arrived at KAPB-106022	
1210	sampled KAPB-106022	
1225	left KAPB-106022 to KAPB-106212	
1230	Arrived at KAPB-106212	
1300	sampled KAPB-106212	
1320	left KAPB-106212 to KAPB-106053 cluster	
1327	Arrived at KAPB-106053 cluster	
1340	sampled KAPB-106053	
1415	sampled KAPB-106054	
1428	left KAPB-106053 cluster to trailer	
1440	Arrived at trailer	
 		END OF DAY

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications above.

Name: Santoro Benjue

Signature: [Handwritten Signature]

EA Engineering, Science and Technology Inc., PBC

Reviewed by: [Handwritten Initials]

DQCR Page 2 of 2  
Initials: [Handwritten Initials]

Reviewed date: 10/14/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report – Non-Construction

ROLE: Team #1

DATE: 10/12-2020

WEATHER: High of 77°F, clear, light breeze

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Dylan Schmeek	EA-sampler
Riley Wither	Sundance-sampler
<del>_____</del>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
0841	Sampled KAFB-106074
1051	Sampled KAFB-106073
1353	Sampled KAFB-106009
<del>_____</del>	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0735	leave field trailer KAFB-106074 cluster
0744	arrive at KAFB-106074 cluster
0841	Sampled KAFB-106074
1051	Sampled KAFB-106073

Reviewed by: 

Reviewed date: 10/14/2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #2

DATE: 10-12-2020

WEATHER: 70% clear, wind NNW 7mph

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bochkisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Gabriela Beyene	TECH III
Justin Fitch	Surveillance
<i>[Signature]</i>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

*[Signature]* wells sampled: KAPB-106026, KAPB-106230, KAPB-106036, KAPB-106043, KAPB-106049, KAPB-106050, KAPB-106052, KAPB-106105, KAPB-106107, KAPB-106206, KAPB-106241

*[Signature]*

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0800	WFA trailer to KAPB-106026 cluster
0812	Arrived at KAPB-106026 cluster
0830	sampled KAPB-106026
0900	sampled KAPB-106230

Reviewed by: *[Signature]*

Reviewed date: 10/14/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring - 62599DM01  
Daily Quality Control Report - Non-Construction

4. WORK PERFORMED (Continued)		DATE: 10-12-2020
0920	Left KAPB-106026 cluster to KAPB-106036	
0925	Arrived at KAPB-106036	
0935	sampled KAPB-106036	
0952	Left KAPB-106036 to KAPB-106043	
1000	Arrived at KAPB-106043	
1015	sampled KAPB-106043	
1028	Left KAPB-106043 to KAPB-106049 cluster	
1033	Arrived at KAPB-106049 cluster	
1045	sampled KAPB-106049	
1115	sampled KAPB-106050	
1125	Left KAPB-106049 cluster to KAPB-106052	
1127	Arrived at KAPB-106052	
1145	sampled KAPB-106052	
1155	Left KAPB-106052 to KAPB-106105 cluster	
1200	Arrived at KAPB-106105 cluster	
1230	sampled KAPB-106105	
1250	sampled KAPB-106107	
1313	Left KAPB-106105 cluster to KAPB-106206	
1320	Arrived at KAPB-106206	
1335	sampled KAPB-106206	
1410	Left KAPB-106206 to KAPB-106241	
1413	Arrived at KAPB-106241	
1430	sampled KAPB-106241	
1440	Left KAPB-106241 to trailer	
1450	Arrived at trailer	
<u>END OF DAY</u> <i>GB</i>		

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name: Garretson Begaye Signature: [Signature]

EA Engineering, Science and Technology Inc., PBC

Reviewed by: [Signature] Initials: GB

DQCR Page 2 of 2

Reviewed date: 10/12/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10-13-2020

WEATHER: High of 81°F, clear wind WSW @ 4-9 mph

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Dylan Schmeelk	EA - Sampler
Riley Wittler	K <sup>S</sup> Sundance - Sampler

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
0803	sampled KAFB-106003
1026	sampled KAFB-106013
1211	sampled KAFB-106098
1421	sampled KAFB-106097

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0622	Leave field trailer for KAFB-106003
0629	arrive at KAFB-106003
0803	sampled KAFB-106003
0858	leave KAFB-106003 for KAFB-106013 cluster

Reviewed by: *jm*

Reviewed date: 10/14/2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #2

DATE: 10-13-2020

WEATHER: 81°F clear, sunny wind 3 mph W

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Buckisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Calvin Begane	Tech #1
Justin Fitch	Jundance
<u>GB</u>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915779 WH0006 <input type="checkbox"/>
Geotech Turbiditymeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Wells sampled: KAPB-106085, KAPB-106086, KAPB-106087, KAPB-106070, KAPB-106071, KAPB-106243, KAPB-106090, KAPB-106089, KAPB-106103, KAPB-106104, KAPB-106023, KAPB-106103, KAPB-106104, KAPB-106015

GB

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0800	Left to KAPB-106003 from trailer
0802	Arrived at KAPB-106003
0810	Left KAPB-106003 to KAPB-106085 cluster
0818	Arrived at KAPB-106085 cluster

Reviewed by: Jm

Reviewed date: 10/14/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

4. WORK PERFORMED (Continued)		DATE: 10-13-2020
0835	sampled KAPB-106085	
0930	sampled KAPB-106087	
0950	sampled KAPB-106086	
1005	left KAPB-106085 cluster to KAPB-106070 cluster	
1007	Arrived at KAPB-106070 cluster	
1030	sampled KAPB-106070	
1045	sampled KAPB-106070	
1118	left KAPB-106070 cluster to KAPB-106243 cluster	
1120	Arrived at KAPB-106243 cluster	
1140	sampled KAPB-106243	
1210	sampled KAPB-106090	
1235	sampled KAPB-106089	
1245	left KAPB-106243 cluster to KAPB-106103 cluster	
1310	Arrived at KAPB-106103 cluster	
1330	sampled KAPB-106103	
1350	sampled KAPB-106103	
	left KAPB-106103 cluster to KAPB-106023	
	Arrived at KAPB-106023	
1415	sampled KAPB-106023	
1432	left KAPB-106023 to KAPB-106015	
1437	Arrived at KAPB-106015	
1450	sampled KAPB-106015	
1508	left KAPB-106015 to trailer	
1513	Arrived at trailer	
<u>END OF DAY</u>		

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications above.

Name: Colin For Payne

Signature: [Signature]

EA Engineering, Science and Technology Inc., PBC

Reviewed by: [Signature]

Initials: [Signature]

Reviewed date: 10/14/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10-14-2020

WEATHER: Hi 86° 10W 52° Sunny, breezy low humidity

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Bernard Bockisch</u>	EA - Site Manager/Supervisor
<u>Peter Ferrari</u>	EA - Site Health and Safety Office
<u>Dylan Schuelke</u>	EA - Sampler
<u>Riley Wittler</u>	Sundance - Sampler

2. OPERATING EQUIPMENT			
Team #1		Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input checked="" type="checkbox"/>		YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>		MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-91579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>		Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>		Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
<u>0730</u>	<u>Compressor battery issues caused delayed purge at KAFB-106099. Jumped battery with other EA truck @ 0800.</u>
<u>0849</u>	<u>Sampled KAFB-106099</u>
<u>1039</u>	<u>Sampled KAFB-106004</u>
<u>1223</u>	<u>Sampled KAFB-106100</u>
<u>1449</u>	<u>Sampled KAFB-106101</u>

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
<u>0624</u>	<u>leave field trailer for <sup>15</sup> KAFB-106004 cluster</u>
<u>0634</u>	<u>arrive at KAFB-106004 cluster</u>
<u>0849</u>	<u>Sampled KAFB-106099</u>
<u>1039</u>	<u>Sampled KAFB-106004</u>

Reviewed by: 

Reviewed date: 10-21-2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #2

DATE: 10-14-2020

WEATHER: 85°F sunny wind 1 mph

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bochisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Robertson Begaye	TECA #
Justin Fitch	Sundance
<i>[Signature]</i>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 15K101398 Wh0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 Wh0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 Wh0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 Wh0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 Wh0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 Wh0006 <input type="checkbox"/>
Hach 2100Q 15100C045034 Wh0008 <input type="checkbox"/>	Hach 2100Q 15100C044633 Wh0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 Wh0007 <input type="checkbox"/>
Solinst Water Level Meter 253054 <input type="checkbox"/>	Solinst Water Level Meter 253053 <input type="checkbox"/>	Solinst Water Level Meter 253056 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

wells sampled: KAPB-106244, KAPB-106247, KAPB-106064, KAPB-106063, KAPB-106245, KAPB-106213, KAPB-106214, KAPB-106215, KAPB-106222, KAPB-106223, KAPB-106224

*[Signature]*

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0750	left trailer to KAPB-106244
0800	Arrived at KAPB-106244
0825	sampled KAPB-106244
0842	WFA KAPB-106244 to KAPB-106244/1064 cluster

Reviewed by: *[Signature]* Initials: — Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10-14-2020

4. WORK PERFORMED (Continued)	
0857	Arrived at KAFB-106064 cluster
0905	sampled KAFB-106064
1005	sampled KAFB-106063
1030	left KAFB-106064 cluster to trailer
1033	Arrived at trailer
1045	left trailer to KAFB-106245
1047	Arrived at KAFB-106245
1100	sampled KAFB-106245
1111	left KAFB-106245 to KAFB-106247
1116	Arrived at KAFB-106247
1130	sampled KAFB-106247
1145	left KAFB-106247 to KAFB-106213 cluster
1158	Arrived at KAFB-106213 cluster
1245	sampled KAFB-106215
1310	sampled KAFB-106214
1330	sampled KAFB-106213
1344	left KAFB-106213 cluster to KAFB-106222 cluster
1348	Arrived at KAFB-106222 cluster
1410	sampled KAFB-106224
1430	sampled KAFB-106223
1450	sampled KAFB-106222
1505 @ 1305	left KAFB-106222 cluster to KAFB-106 trailer
1513	Arrived at trailer
<u>END OF DAY</u>	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Gabriel Begay  
Name

[Signature]  
Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: jm

Initials: —

Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report – Non-Construction

ROLE: Team #1

DATE: 10-15-2020

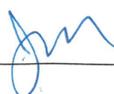
WEATHER: Hi 79° low 45° sunny, breezy, clear

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Pete Ferrari	EA - Site Health and Safety Office
Dylan Schmeek	EA - Sampler
Riley Wittler	fundance - sampler
<del>_____</del>	
<del>_____</del>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 15K101398 <input checked="" type="checkbox"/> Wh0003 <u>18L100 378</u>	YSI Professional Plus 15K101396 <input type="checkbox"/> Wh0001	YSI Professional Plus 15L100541 <input type="checkbox"/> Wh0002
MiniRAE 3000 592-915778 <input type="checkbox"/> Wh0005	MiniRAE 3000 592-915790 <input type="checkbox"/> Wh0004	MiniRAE 3000 592-915579 <input checked="" type="checkbox"/> Wh0006
Hach 2100Q 15100C045034 <input type="checkbox"/> Wh0008	Hach 2100Q 15100C044633 <input type="checkbox"/> Wh0009	Hach 2100Q 15100C045025 <input checked="" type="checkbox"/> Wh0007
Solinst Water Level Meter 253054 <input type="checkbox"/>	Solinst Water Level Meter 253053 <input checked="" type="checkbox"/> <u>Wh0012</u>	Solinst Water Level Meter 253056 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
<del>0745</del>	<del>leave field trailer for KAFB 106102</del> ✕
<del>0751</del>	<del>arrive at KAFB-106102</del> ✕
0859	Sampled KAFB-106102
1111	Sampled KAFB-106048
1326	Sampled KAFB-106081
1509	Sampled KAFB-106061
<del>_____</del>	
<del>_____</del>	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0745	leave field trailer for KAFB-106102
0751	Arrive at KAFB-106102
0859	Sampled KAFB-106102
0950	leave KAFB-10602 for KAFB-106048

Reviewed by: 

Initials: —

Reviewed date: 10-21-2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report – Non-Construction

ROLE: Team #2

DATE: 10-15-2020

WEATHER:

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Podlisch	EA - Site Manager/Supervisor
Peter Ferranti	EA - Site Health and Safety Office
Geaheshon Beyene	TECH III
Justin Fitch	Sundance
<i>[Signature]</i>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 15K101398 Wh0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 Wh0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 Wh0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 Wh0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 Wh0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 Wh0006 <input type="checkbox"/>
Hach 2100Q 15100C045034 Wh0008 <input type="checkbox"/>	Hach 2100Q 15100C044633 Wh0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 Wh0007 <input type="checkbox"/>
Solinst Water Level Meter 253054 <input type="checkbox"/>	Solinst Water Level Meter 253053 <input type="checkbox"/>	Solinst Water Level Meter 253056 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
	Wells sampled: KAPB-106240, KAPB-106025, KAPB-106051, KAPB-106088, KAPB-106072
	wells O&M + TD: KAPB-106209, KAPB-106208, KAPB-106207, KAPB-106236-436, KAPB-106236-470, KAPB-106236-499
<i>[Signature]</i>	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0818	Left trailer to KAPB-106240
0825	Arrived at KAPB-106240
0845	sampled KAPB-106240
0905	Left KAPB-106240 to KAPB-106051

Reviewed by: *Jm* Initials: — DQCR Page 1 of 2

Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report -- Non-Construction

DATE: 10-15-2020

4. WORK PERFORMED (Continued)	
0915	0930 Arrived at KAPB-106051
	0930 sampled KAPB-106051
	0953 left KAPB-106051 to KAPB-106025
	0955 Arrived at KAPB-106025
	1015 sampled KAPB-106025
	1021 left KAPB-106025 to KAPB-106088
	1027 Arrived at KAPB-106088
	1045 sampled KAPB-106088
	1056 left KAPB-106088 to KAPB-106072
	1058 Arrived at KAPB-106072
	1115 sampled KAPB-106072
	1130 left KAPB-106072 to trailer
	1143 Arrived at trailer
	1320 left trailer to KAPB-106207 cluster
	1345 Arrived at KAPB-106207 cluster
	1510 left KAPB-106207 cluster to KAPB-106236 cluster <span style="float: right;">nested wells</span>
	1516 Arrived at KAPB-106236 nested wells
	1546 left KAPB-106236 nested wells to trailer
	1558 Arrived on trailer
END OF DAY	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name: [Signature]

Signature: [Signature] 10-15-2020

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: [Signature]

Initials: —

Reviewed date: 10-21-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report – Non-Construction

ROLE: Team #1

DATE: 10-16-2020

WEATHER: Hi 72° Low 46 Sunny, clear breezy

1. ONSITE PERSONNEL (including subcontractors and government employees)

Name	Organization
Bernard BOCKISCH	EA - Site Manager/Supervisor
Pete Ferrari	EA - Site Health and Safety Office
Dylan Schmeek	EA - Sampler
Riley Wittner	Sundance - sampler

2. OPERATING EQUIPMENT

Team #1	Team #2	Spare
YSI Professional Plus-15K101396 <input checked="" type="checkbox"/> Wh0003 <u>18L100378</u>	YSI Professional Plus 15K101396 <input type="checkbox"/> Wh0001	YSI Professional Plus 15L100541 <input type="checkbox"/> Wh0002
MiniRAE 3000 592-915778 <input type="checkbox"/> Wh0005	MiniRAE 3000 592-915790 <input type="checkbox"/> Wh0004	MiniRAE 3000 592-915579 <input checked="" type="checkbox"/> Wh0006
Hach 2100Q 15100C045034 <input type="checkbox"/> Wh0008	Hach 2100Q 15100C044633 <input type="checkbox"/> Wh0009	Hach 2100Q 15100C045025 <input checked="" type="checkbox"/> Wh0007
Solinst Water Level Meter 253054 <input type="checkbox"/>	Solinst Water Level Meter 253053 <input checked="" type="checkbox"/> <u>Wh0012</u>	Solinst Water Level Meter 253056 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

<del>0752</del>	<del>leave field trailer for KAFB-106069 RW</del>
<del>0802</del>	<del>arrive at well KAFB-106069 RW</del>
0911	Sampled KAFB-106069
1111	Sampled KAFB-106069
1244	Sampled KAFB-106066

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0752	leave field trailer for KAFB-106069
0802	arrive at KAFB-106069
0911	Sampled KAFB-106069
111	Sampled KAFB-106068

DQCR Page 1 of 2

Reviewed by: JM

Initials: \_\_\_\_\_

Reviewed date: 10-21-2020



6360401

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring --62599DM01  
 Daily Quality Control Report - Non-Construction

ROLE: Team #2

DATE: 10-16-2020

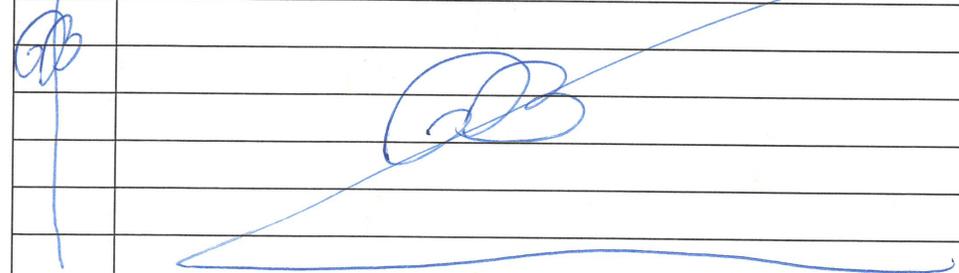
WEATHER: 71°F sunny wind NE 15mph

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Calvin Begaye	Feich #1
Justin Fitch	Sundance
	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 15K101398 Wh0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 Wh0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 Wh0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 Wh0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 Wh0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 Wh0006 <input type="checkbox"/>
Hach 2100Q 15100C045034 Wh0008 <input type="checkbox"/>	Hach 2100Q 15100C044633 Wh0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 Wh0007 <input type="checkbox"/>
Solinst Water Level Meter 253054 <input type="checkbox"/>	Solinst Water Level Meter 253053 <input type="checkbox"/>	Solinst Water Level Meter 253056 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Wells OJM + TD: KAPB-106219, KAPB-106220, KAPB-106221, KAPB-106235-438, KAPB-106235-472, KAPB-106235-501



4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0748	Left trailer to KAPB-106219 cluster
0805	Arrived at KAPB-106219 cluster
0832	Left KAPB-106219 cluster to Valens gas
0838	Arrived at Valens gas

Reviewed by: jm

Initials: —

Reviewed date: 10-21-2020

6360401

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01 *OB*  
 Daily Quality Control Report - Non-Construction

DATE: 10-16-2020

4. WORK PERFORMED (Continued)	
0845	left Valero gas to harbor freight
0908	Arrived at Harbor freight
0930	left Harbor freight to ABB Bolt & supply
0952	Arrived at ABB Bolt & supply
1022	left ABB Bolt & supply to Red Mesa Equipment
1032	Arrived at Red Mesa equipment
1045	left Red Mesa Equipment to KAPB-106235 nested wells
1118	Arrived at KAPB-106235 nested wells
1146	left KAPB-106235 nested wells to KAPB-106022
1200	Arrived at KAPB-106022
1213	left KAPB-106022 to KAPB-106066
1218	Arrived at KAPB-106066
1222	left KAPB-106066 to trailer
1233	Arrived at trailer
<p>END OF DAY</p> <p><i>OB</i></p>	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Galveston Beggs  
 Name

*[Signature]*  
 Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: *JM*

Initials: —

Reviewed date: 10-25-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10-19-2020

WEATHER: High of 80°F, clear, wind WSW @ 4-9 mph.

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Bernard Bockisch</u>	EA - Site Manager/Supervisor
<u>Peter Ferrari</u>	EA - Site Health and Safety Office
<u>Dylan Schmeelb</u>	EA-Sampler
<u>Joshua Messenger</u>	EA-Sampler
<u>BS</u>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input checked="" type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

<u>0858</u>	<u>took dup @ KAFB-106017</u>
<u>JM</u>	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

<u>0800</u>	<u>Leave field trailer for KAFB-106017</u>
<u>0810</u>	<u>Arrive at KAFB-106017</u>
<u>0858</u>	<u>Sampled KAFB-106017</u>
<u>0930</u>	<u>left KAFB-106017</u>

Reviewed by: Amanda Smith

Reviewed date: 11/5/2020



6360901

62599DM01 *OB*

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring --  
Daily Quality Control Report - Non-Construction

ROLE: Team #2

DATE: 10-19-2020

WEATHER: 81°F clear wind ESE 6MPH

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Bernard Bochisch</u>	EA - Site Manager/Supervisor
<u>Peter Ferrari</u>	EA - Site Health and Safety Office
<u>Salveston Beguza</u>	<u>TECH III</u>
<i>OB</i>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15L101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915679 WH0006 <input type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

*OB* wells ODM + TD: KAPB-106204, KAPB-106205, KAPB-106206, KAPB-106222, KAPB-106223, KAPB-106224, KAPB-106226, KAPB-106217, KAPB-106218, KAPB-106220, KAPB-106026, KAPB-106230, KAPB-106201, KAPB-106202, KAPB-106203,

*OB*

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0748	<u>Left Trailer to KAPB-106201 cluster</u>
0756	<u>Arrived at KAPB-106201 cluster</u>
0932	<u>Left KAPB-106201 cluster to KAPB-106222 cluster</u>
0936	<u>Arrived at KAPB-106222 cluster</u>

Reviewed by: *Jm*

Reviewed date: 10-21-2020

6350401

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring --62599DM01  
 Daily Quality Control Report - Non-Construction

DATE: 10-19-2020

4. WORK PERFORMED (Continued)	
1036	left KAPB-106222 cluster to KAPB-106216 cluster
1038	Arrived at KAPB-106216 cluster
1151	left KAPB-106216 cluster to KAPB-106220
1156	Arrived at KAPB-106220
1212	left KAPB-106220 to KAPB-106026 cluster
1217	Arrived at KAPB-106026 cluster
1307	left KAPB-106026 cluster to trailer
1315	Arrived at trailer
1345	left trailer to KAPB-106201 cluster
1353	Arrived at KAPB-106201 cluster
1508	left KAPB-106202 cluster to trailer
1515	Arrived at trailer
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(45deg); position: relative; margin: 20px auto;"> <span style="position: absolute; top: -20px; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">END OF DAY</span> </div>	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Calweston Begaye

  
 Name Signature

EA Engineering, Science and Technology Inc., PBC

Reviewed by: jm
 Initials: —
 Reviewed date: 10-21-2020





6360401  
62599DMOT OB

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring  
Daily Quality Control Report – Non-Construction

ROLE: Team #2 DATE: 10-20-2020  
 WEATHER: 81° clear, sunny wind NW 3MPH

1. ONSITE PERSONNEL (including subcontractors and government employees)		
Name	Organization	
Bernard Bockisch	EA - Site Manager/Supervisor	
Peter Ferrant	EA - Site Health and Safety Office	
Gabrielon Begaye	TECH III	
OB		
2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915779 WH0006 <input type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>
3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)		
wells O&M & TD = KAPB-106027, KAPB-106045, KAPB-106044, KAPB-106003, KAPB-106101, KAPB-106102 KAPB-106002, KAPB-106012R, KAPB-106054, KAPB-106005 KAPB-106009, KAPB-106079, KAPB-106080, KAPB-106081, KAPB-106014, KAPB-106053, KAPB-106011, KAPB-106245 KAPB-106016, KAPB-3411, KAPB-106156 OB		
OB		
4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)		
0918	left trailer to KAPB-106027 cluster	
0924	Arrived at KAPB-106027 cluster	
1007	left KAPB-106027 cluster to KAPB-106003 cluster	
1010	Arrived at KAPB-106003 cluster	

Reviewed by: JM

Reviewed date: 10-26-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring - 62599DM01  
 Daily Quality Control Report - Non-Construction

6350401

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DATE: 10-20-2020

4. WORK PERFORMED (Continued)	
1120	left KAFB-106003 cluster to KAFB-106002
1121	Arrived at KAFB-106002
1132	left KAFB-106002 to KAFB-106012R
1133	Arrived at KAFB-106012R
1155	left KAFB-106012R to KAFB-10654 cluster
1156	Arrived at KAFB-10654 cluster
1225	left KAFB-10654 cluster to Valero gas
1230	Arrived at Valero gas
1247	left Valero gas to KAFB-106009
1255	Arrived at KAFB-106009
1325	left KAFB-106009 to KAFB-106079 cluster
1326	Arrived at KAFB-106079 cluster
1407	left KAFB-106079 cluster to KAFB-10653 cluster
1408	Arrived at KAFB-10653 cluster
1431	left KAFB-10653 cluster to KAFB-106011
1432	Arrived at KAFB-106011
1437	left KAFB-106011 to KAFB-106245
1438	Arrived at KAFB-106245
1457	left KAFB-106245 to trailer
1500	Arrived at trailer
1506	left trailer to KAFB-106016
1513	Arrived at KAFB-106016
1520	left KAFB-106016 to KAFB-3411 cluster
1521	Arrived at KAFB-3411 cluster
1557	left KAFB-3411 cluster to trailer
1605	Arrived at trailer END OF DAY

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name: Galston Begay Signature: [Signature]

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: [Signature] Initials: —

Reviewed date: 10-26-2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report -- Non-Construction

DATE: 10-21-2020

4. WORK PERFORMED (Continued)	
1321	Sampled KAFB-106024
1404	Leave KAFB-106024 for KAFB-106059
1407	Arrive at KAFB-106059 -> Had NAPL, couldn't bail so didn't sample today.
1436	Leave KAFB-106059 for KAFB-106008
1438	Arrive at KAFB-106008
1642	AR <del>leave</del> sample KAFB-106008
1716	Leave KAFB-106008 for trailer
1718	Arrive at <del>KAFB-106008</del> AR trailer.

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name           Amy Rosebrough          

Signature           Amy Rosebrough          

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by:           jm          

Initials:           —          

Reviewed date:           10-26-2020

6360401  
OB

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #2

DATE: 10-21-2020

WEATHER: B/OF sunny wind E 1mph

1. ONSITE PERSONNEL (including subcontractors and government employees)		
Name	Organization	
Bernard Bockisch	EA - Site Manager/Supervisor	
Peter Cerrari	EA - Site Health and Safety Office	
Salvatore Begaye	TECH II	
Joshua Livingston	ENG I	
OB		
2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C074633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>
OB		
3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)		
wells sampled: KAPB-106149, KAPB-106151, KAPB-106.S1, KAPB-106153, KAPB-106.S8, KAPB-106152, KAPB-106.S9,		
OB		
4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)		
0738	left trailer to KAPB-106149	
0749	arrived at KAPB-106149	
0800	sampled KAPB-106149	
0825	left KAPB-106149 for FIELD TRAILER	

Reviewed by: jm

DQCR Page 1 of 2 OB

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Reviewed date: 10-26-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring --62599DM01 <sup>OB</sup>  
 Daily Quality Control Report - Non-Construction 6360401

DATE: 10-21-2020

4. WORK PERFORMED (Continued)	
0830	Arrived at field trailer
0833	Left trailer to KAFB-106151
0837	Arrived at KAFB-106151
0900	Sampled KAFB-106151
0931	Left KAFB-106151 to KAFB-10651
0933	Arrived at KAFB-10651
0950	Sampled KAFB-10651
1013	Left KAFB-10651 to KAFB-106153
1015	Arrived at KAFB-106153
1035	sampled KAFB-106153
1059	Left KAFB-106153 to KAFB-10658
1100	Arrived at KAFB-10658
1120	sampled KAFB-10658
1216	Left KAFB-10658 to KAFB-106152
1218	Arrived at KAFB-106152
1240	sampled KAFB-106152
1300	Left KAFB-106152 to trailer
1308	Arrived at trailer
1328	Left trailer to Valero gas
1340	Arrived at Valero gas
1400	Left Valero gas to KAFB-10659   1410 Arrived at KAFB-10659 <sup>OB</sup>
1420	sampled KAFB-10659
1435	<del>Arrived</del> Left KAFB-10659 to trailer
1450	Arrived at trailer
1500	Left trailer to gas station
1505	Arrived at gas station

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Catherine Beguise  
 Name

[Signature]  
 Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2 <sup>OB</sup>

Reviewed by: [Signature]

Initials: 3

Reviewed date: 10-26-2020

6360401

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring --.62599DM01  
Daily Quality Control Report - Non-Construction

DATE: 10-21-2020

4. WORK PERFORMED (Continued)	
1515	Left gas station to trailer
1523	Arrived at trailer
<p>END OF DAY</p>	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name [Signature]

Signature [Signature]

EA Engineering, Science and Technology Inc., PBC

DQCR Page 3 of 3

Reviewed by: [Signature]

Initials: [Signature]

Reviewed date: 10-26-2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: GW sampling

DATE: 10-22-2020

WEATHER:

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Beckish	EA - Site Manager/Supervisor
Pete Ferrari	EA - Site Health and Safety Office
Amy Rosebrough	EA - sampler
Dylan Schmeelke	EA - sampler

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 <input checked="" type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

0745	<del>leave trailer for 10W yard</del> AR
0749	<del>Arrive at 10W yard</del> AR

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0746	leave trailer for 10W yard
0749	Arrive at 10W yard
0802	leave 10W yard for trailer
0904	Arrive at trailer

Reviewed by: JM

Reviewed date: 10-26-2020



6360401

62599DM01 *OB*

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring --  
Daily Quality Control Report - Non-Construction

ROLE: Team #2

DATE: 10-22-2020

WEATHER: 80°F sunny wind E 2 mph

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Bernard Bodirsch</u>	EA - Site Manager/Supervisor
<u>Peter Ferrari</u>	EA - Site Health and Safety Office
<u>Christopher Beguine</u>	<u>TECH III</u>
<u>Joshua Livingston</u>	<u>ENG I</u>
<i>OB</i>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
	<u>wells sampled: KAPB-106S4, KAPB-106S3, KAPB-106S2, KAPB-106S7, KAPB-106S5</u>
<i>OB</i>	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
<u>0754</u>	<u>left trailer to KAPB-106S4</u>
<u>0758</u>	<u>Arrived at KAPB-106S4</u>
<u>0820</u>	<u>sampled KAPB-106S4</u>
<u>0828</u>	<u>left KAPB-106S4 to KAPB-106S3</u>

Reviewed by: *jm*

Reviewed date: 10-26-2020

6360401

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01-*OB*  
Daily Quality Control Report - Non-Construction

DATE: 10-22-2020

4. WORK PERFORMED (Continued)	
0830	Arrived at KAPB-106S3
0845	sampled KAPB-106S3
0900	left KAPB-106S3 to KAPB-106S2
0903	Arrived at KAPB-106S2
0920	sampled KAPB-106S2
0933	left KAPB-106S2 to KAPB-106S7 <sup>7</sup> <sub>OB</sub>
1000	Arrived at KAPB-106S7 <sup>7</sup> <sub>OB</sub>
1030	sampled KAPB-106S7 <sup>7</sup> <sub>OB</sub>
1045	left KAPB-106S7 to KAPB-106S5
1050	Arrived at KAPB-106S5
1115	sampled KAPB-106S5
1220	left KAPB-106S5 to trailer
1233	Arrived at trailer
<div style="font-size: 4em; font-family: cursive;">END OF DAY</div>	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Gabriel Bejar  
Name

[Signature]  
Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: [Signature]

Initials: \_\_\_\_\_

Reviewed date: 10-26-2020





6360401

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team IIC

DATE: 10-23-2020

WEATHER: 75°F Sunny E ImpH

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bochisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Salveston Begaye	EA TECH III
<i>[Large signature]</i>	

2. OPERATING EQUIPMENT					
Team #1		Team #2		Spare	
YSI Professional Plus 18L100378 WH0003	<input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001	<input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002	<input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005	<input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004	<input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006	<input checked="" type="checkbox"/>
Geotech Turbiditymeter 18081855	<input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009	<input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007	<input type="checkbox"/>
Solinst Water Level Meter 253056	<input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012	<input type="checkbox"/>	Geotech Interface Probe 0001	<input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)	
	Wells bailed for NAPL: KAPB-106005, KAPB-106059
<i>[Signature]</i>	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0839	Left trailer to KAPB-106005
0845	Arrived at KAPB-106005
=	NAPL = 470.57, DTW = 470.68      1st attempt
=	NAPL = N/A, DTW = 470.60      final attempt

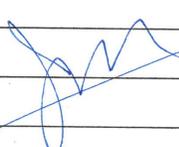
Reviewed by: *[Signature]*

Reviewed date: 10-26-2020

6360401

Kirtland AFB Bulk Fuels Facility Vadose Zone Coring -- 62735DM02  
 Daily Quality Control Report - Non-Construction

DATE: 10-23-2020

4. WORK PERFORMED (Continued)	
1210	Left KAFB-106005 to trailer
1214	Arrived at trailer
1222	Left trailer to KAFB-106005
1226	Arrived at KAFB-106005
1413	Leave KAFB-106005 for KAFB-106059
1415	Arrive at KAFB-106059
1555	Leave KAFB-106059 for field office
1600	Arrive at field office
1610	Leave field office for KAFB-106229 pump house
1615	Arrive at KAFB-106229 pump house
1620	Leave KAFB-106229 pump house for KAFB-106008
1630	Arrive at KAFB-106008
1635	Leave KAFB-106008 for KAFB-106059
1636	Arrive at KAFB-106059
1650	Leave KAFB-106059 for field trailer
1654	Arrive at field trailer
	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Galverson Begaye  
 Name

[Signature]  
 Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: [Signature]

Initials: \_\_\_\_\_

Reviewed date: 10-26-2020

6360401

6B

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10-26-2020

WEATHER: 28°F cloudy, wind at 26mph East

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Gabriel Begaye	TECH III
<i>[Large signature]</i>	

2. OPERATING EQUIPMENT					
Team #1		Team #2		Spare	
YSI Professional Plus 18L100378 WH0003	<input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001	<input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002	<input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005	<input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004	<input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006	<input type="checkbox"/>
Geotech Turbidimeter 18081855	<input type="checkbox"/>	Hach 2100Q 151000044633 WH0009	<input type="checkbox"/>	Hach 2100Q 151000045025 WH0007	<input type="checkbox"/>
Solinst Water Level Meter 253056	<input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012	<input type="checkbox"/>	Geotech Interface Probe 0001	<input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

*[Large signature]*

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0955	left <del>HAER-106</del> trailer to gas station for ICE
1000	Arrived at gas station
1004	left gas station to trailer
1009	Arrived at trailer

Reviewed by: *[Signature]*

DQCR Page 1 of 2

Reviewed date: 10-30-20

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

6360401  
GB

DATE: 10-26-2020

4. WORK PERFORMED (Continued)	
1038	Left trailer to KAPB-106008
1044	Arrived at trailer KAPB-106008
1048	Left KAPB-106008 to trailer
1053	Arrival at trailer (END) OF DAY

10-26-2020

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Culverton Begay  
Name

[Signature]  
Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: [Signature]

Initials: —

Reviewed date: 10-30-20

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10-28-2020

WEATHER: High of 44°F, mostly cold, partly cloudy, light breeze

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
<u>Bernard Backisch</u>	EA - Site Manager/Supervisor
<u>Peter Ferrari</u>	EA - Site Health and Safety Office
<u>Dylan Schmeck</u>	EA - Sampler
<u>Galveston Begaye</u>	EA - Sampler
<u>Amy Rosebrough</u>	EA - Sampler

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input checked="" type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

1307/1333 Sampled KAFB-106018

*(The rest of the section is crossed out with a large blue diagonal line.)*

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

<u>1252</u>	<u>Leave field trailer for KAFB-106018</u>
<u>1307</u>	<u>Arrive at KAFB-106018</u>
<u>1520</u>	<u>Leave KAFB-106018 for gas station</u>
<u>1526</u>	<u>Arrive at gas station (Gibson + Carlisle)</u>

Reviewed by: *Jm*

DQCR Page 1 of 2

Reviewed date: 10-30-20



6360401

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring --62599DM01  
 Daily Quality Control Report - Non-Construction

ROLE: Team #1

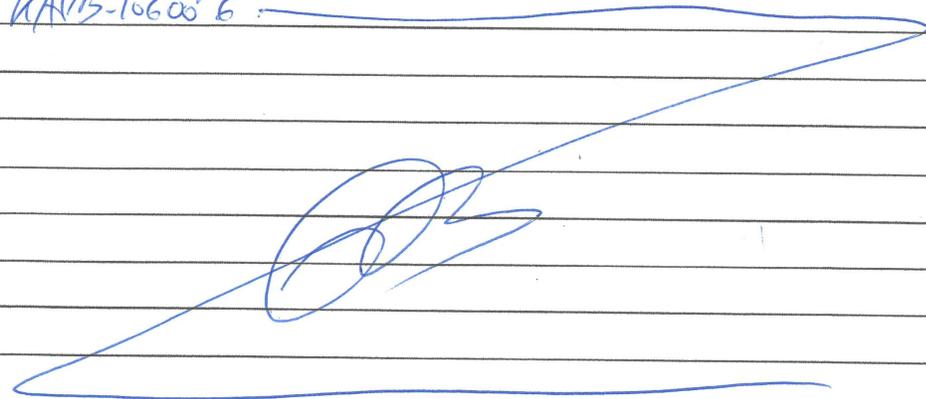
DATE: 10-29-2020

WEATHER: 55°F clear/sunny

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bochkisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Calveston Beyage	FECH III
Amy Rosebrough	Geo I
	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855  <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input checked="" type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

	Wells sampled: KAFB-106020, KAFB-106014 KAFB-106006
	

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0815	left trailer to KAFB-106020
0828	Arrived at KAFB-106020
1112	sampled KAFB-106020
1202	leave KAFB-106020 for KAFB-106 trailer

Reviewed by: 

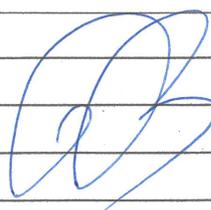
DQCR Page 1 of 2

Reviewed date: 10-30-20

6360401

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 02599DM01 OB  
 Daily Quality Control Report - Non-Construction

DATE: 10-29-2020

4. WORK PERFORMED (Continued)	
1228	Arrived at trailer
1233	Left trailer to KAPB-106079
1241	Arrived at KAPB-106079
1251	Left KAPB-106079 to KAPB-106014
1252	Arrived at KAPB-106014
1436	sampled KAPB-106014
1536	Left KAPB-106014 to KAPB-106006
1540	Arrived at KAPB-106006
1632	Sampled KAPB-106006
1715	Left KAPB-106006 to trailer
1720	Arrived at trailer
<p>END OF DAY</p> 	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name: Calebson Revere Signature: [Handwritten Signature]

EA Engineering, Science and Technology Inc., PBC

Reviewed by: [Handwritten Initials] Initials: -

DQCR Page 2 of 2

Reviewed date: 10-30-20

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 10-30-2020

WEATHER: High of 61°F, low of 40°F, clear, light breeze

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Dylan Schueelk	EA-Sampler
Colleen Beyace	EA-Sampler

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input checked="" type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input checked="" type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855 WH0008 <input type="checkbox"/>	Hach 2100Q 15100C044093 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input checked="" type="checkbox"/>
Solinst Water Level Meter 253056 WH0011 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 WH0010 <input checked="" type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

0928	Sampled KAFB-106076
1203	Sampled KAFB-106001
1442	Sampled KAFB-106079

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0743	Leave field trailer for Bank parking lot (to refuel)
0749	Arrive at Bank parking lot
0754	Leave Bank for KAFB-106076
0803	Arrive at KAFB-106076

DQCR Page 1 of 2

Reviewed by: Amanda Smith

Reviewed date: 11/5/2020



6360701  
62599DM01-03

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring --  
Daily Quality Control Report – Non-Construction

ROLE: Team 1

DATE: 11-02-2020

WEATHER: 68°f sunny wind 7 mph North

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bochsich	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Ga Weston Begaye	TECH III
Joshua Livingston	ENGI
<u>GB</u>	

2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input checked="" type="checkbox"/>	Solinst Water Level Meter 253059 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

wells ganged: KAPB-106149, KAPB-106059, KAPB-106029,  
KAPB-106030, KAPB-106031, KAPB-106231, KAPB-106232  
KAPB-106242, KAPB-106021, KAPB-106065, KAPB-106057,  
KAPB-106055,

GB

wells OJM + TD: KAPB-106029, KAPB-106030, KAPB-106031,  
KAPB-106231, KAPB-106232, KAPB-106242, KAPB-106021

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
0842	105L to KAPB-106149 from trailer
0746	Arrived at KAPB-106149
0859	65A KAPB-106149 to KAPB-106059
0942	Arrived at KAPB-106059

0742  
0746  
0759  
0802

Reviewed by: Amanda Smith

Reviewed date: 11/5/2020

6360401

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring - 62599DM01-03  
Daily Quality Control Report - Non-Construction

4. WORK PERFORMED (Continued)

DATE: 11-02-2020

0831	0921	left KAPB-106059 to trailer
0836	0922	Arrived at trailer
0836	0926	left trailer to KAPB-106231 cluster
0848		Arrived at KAPB-106231 cluster
0850		left KAPB-106231 cluster to Valero gas
0859		Arrived at Valero gas
0902		left to KAPB-106029 cluster from Valero gas
0906		Arrived at KAPB-106029 cluster
0941		left KAPB-106029 cluster to trailer
0950		Arrived at trailer
0954		left trailer to Rescue team #3
1000		Arrived at team #3
1020		left team #3 to KAPB-106231 cluster
1032		Arrived at KAPB-106231 cluster
1110		left KAPB-106231 cluster
1116		Arrived at KAPB-106029 cluster
1152		left KAPB-106029 cluster to KAPB-106242
1156		Arrived at KAPB-106242
1237		left KAPB-106242 to KAPB-106.S5
1245		Arrived at KAPB-106.S5
1328		left KAPB-106.S5 to KAPB-106065 cluster
1330		Arrived at KAPB-106065 cluster
1350		left KAPB-106065 cluster to trailer
1356		Arrived at trailer
END OF DAY		

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Galveston Begaye  
Name

[Signature]  
Signature

EA Engineering, Science and Technology Inc., PBC

Reviewed by: Amanda Smith

DQCR Page 2 of 2  
Initials: AS

Reviewed date: 11/6/2020



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring - 62599DM01  
Daily Quality Control Report - Non-Construction

4. WORK PERFORMED (Continued)		DATE: 11-2-2020
	G. Begaye to come pull truck out of soft soil	
1015	Unstuck truck - 1034 Arrived @ KAFB - 0219 - 1041 Lft KAFB - 0219	
1049	Arrived @ KAFB - 0222 - 1054 Lft KAFB - 0222 - 1056 Arrived @ KAFB - 0525	
1103	Lft KAFB - 0525 - 1111 Arrived @ KAFB - 0517 - 1119 Lft KAFB - 0517 <sup>AS</sup>	
1125	Arrived @ KAFB - 0514 - 1130 Lft KAFB - 0514 - 1132 Arrived @ KAFB - 0522	
1140	Lft KAFB - 0522 - 1142 Arrived @ KAFB - 0520 - 1151 Lft KAFB - 0520	
1200	Arrived @ KAFB - 0518 - 1208 Lft KAFB - 0518 - 1216 Arrived @ KAFB - 0121	
1225	Lft KAFB - 0121 - 1229 Arrived @ KAFB - 0118 - Lft <del>1236</del> Lft KAFB - 0118	
1238	Arrived @ KAFB - 0120 - 1245 Lft KAFB - 0120 - 1249 Arrived @ KAFB - 0417 <sup>AS</sup>	
1256	Lft KAFB - 0417 - 1303 Arrived @ KAFB - 0512R	
1312	Lft KAFB - 0512R - 1315 Arrived @ KAFB - 0504	
1321	Lft KAFB - 0504 - 1326 Arrived @ KAFB - 0524	
1346	Lft KAFB - 0524 - 1327 Arrived @ KAFB - 0508	
1333	Lft KAFB - 0508 - 1348 Arrived @ KAFB - 0507R	
1356	Lft KAFB - 0507R - 1357 Arrived @ KAFB - 0505	
1403	Lft KAFB - 0505 - 1406 Arrived @ KAFB - 2629	
1415	Lft KAFB - 2629 - 1420 Arrived @ field office (EOD)	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications above.

Name: J. Messenger

Signature: [Handwritten Signature]

EA Engineering, Science and Technology Inc., PBC

Reviewed by: Amanda Smith

DQCR Page 2 of 2  
Initials: AS

Reviewed date: 11/5/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: well Gauging

DATE: 11/2/2020

WEATHER: Sunny, clear skies

1. ONSITE PERSONNEL (including subcontractors and government employees)

Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Pete Ferrari	EA - Site Health and Safety Office
Amy Rosebrough	EA - field staff
Curtis Landers	EA - field staff

2. OPERATING EQUIPMENT

Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input checked="" type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Wells gauged: KAFB-106201, KAFB-106202, KAFB-106203, KAFB-106207, KAFB-106208, KAFB-106209, ~~106~~ KAFB-106222, KAFB-106223, KAFB-106224, KAFB-106216, KAFB-106217, KAFB-106218, KAFB-106055, KAFB-106057, KAFB-106058, KAFB-106241, KAFB-106225, KAFB-106226, KAFB-106227, KAFB-106204, KAFB-106205, KAFB-106206, KAFB-106091, KAFB-106092, KAFB-106093, KAFB-106049, KAFB-106050, KAFB-106051, KAFB-106229, KAFB-106052, KAFB-106053, KAFB-106054

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0715	Leave trailer for KAFB- <sup>106201</sup> 207 <sub>207</sub> cluster
0724	Arrive at KAFB- <sup>106201</sup> 207 <sub>207</sub> cluster
0746	Leave KAFB-106201 cluster for KAFB-106207 cluster
0758	Arrive at KAFB-106207 cluster

Reviewed by: Amanda Smith

DQCR Page 1 of 2

Reviewed date: 11/5/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report – Non-Construction

DATE: 11/2/2020

4. WORK PERFORMED (Continued)

0820	leave KAFB-106207 cluster for KAFB-106204 cluster
0824	Arrive at KAFB-106204 cluster
0857	leave KAFB-106204 cluster for KAFB-106222 cluster
0858	Arrive at KAFB-106222 cluster
0924	leave KAFB-106222 cluster for KAFB-106216 cluster
0930	Arrive at KAFB-106216 cluster
<del>1027</del>	<del>leave KAFB- A/C</del>
1000	leave KAFB-106216 cluster for KAFB-106055 cluster
1001	Arrive at KAFB-106055 cluster
1027	leave KAFB-106055 cluster for KAFB-106225 cluster
1030	Arrive at KAFB-106225 cluster
1101	leave KAFB-106225 cluster for lunch
1149	Arrive at KAFB-106091 <sup>cluster</sup> after lunch
1218	leave KAFB-106091 cluster for KAFB- <del>106049</del> <sup>AS</sup> 106049 cluster
1221	Arrive at KAFB-106049
1245	leave KAFB-106049 for KAFB-106052 cluster
1248	Arrive at KAFB-106052 cluster
1308	leave KAFB-106052 cluster for trailer
1317	Arrive at trailer
DR	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name Amy Rosebrough

Signature [Signature]

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: Ananda Smith

Initials: AS

Reviewed date: 11/5/2020

6360401

62599DM01 *OB*

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring --  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 11-4-2020

WEATHER: 74°f Clear/sunny 8 MPH wind E

**1. ONSITE PERSONNEL (including subcontractors and government employees)**

Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferruci	EA - Site Health and Safety Office
Subashan Beylure	TECH <del>II</del>
Joshua Livingston	ENGT
<i>(Signature)</i>	

**2. OPERATING EQUIPMENT**

Team #1	Team #2	Spare
YSI Professional Plus 18L100378 <input type="checkbox"/>	YSI Professional Plus 15K101396 <input type="checkbox"/>	YSI Professional Plus 15L100541 <input type="checkbox"/>
WH0003	WH0001	WH0002
MiniRAE 3000 592-915778 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915790 <input type="checkbox"/>	MiniRAE 3000 592-915579 <input type="checkbox"/>
WH0005	WH0004	WH0006
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 <input type="checkbox"/>	Hach 2100Q-15100C045025 <input type="checkbox"/>
WH0009	WH0007	WH0007
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>
WH0012		

**3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)**

wells gauged = KARB-10654, KARB-1063411, KARB-106016, KARB-106062, KARB-106245, KARB-106015, KARB-106060, KARB-106061, KARB-106212, KARB-106213, KARB-106214, KARB-106215, KARB-106103, KARB-106104, KARB-106035, KARB-106036, KARB-106037, KARB-106089, KARB-106090, KARB-106243, KARB-106071, KARB-106070, KARB-106085, KARB-106086, KARB-106087, KARB-106095, KARB-106096

*(Signature)*

**4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)**

0741	Left trailer to KARB-10654
0745	Arrived at KARB-10654
0749	Left KARB-10654 to KARB-1063411
0752	Arrived at KARB-1063411

Reviewed by: \_\_\_\_\_

Reviewed date: \_\_\_\_\_

6360401

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring - 62599DM01  
 Daily Quality Control Report - Non-Construction

*JB*

4. WORK PERFORMED (Continued)		DATE: 11-4-2020
0800	Left KAPB-3411 to KAPB-106016	
0803	Arrived at KAPB-106016	
0810	Left KAPB-106016 to KAPB-106062	
0813	Arrived at KAPB-106062	
0824	Left KAPB-106062 to KAPB-106245	
0828	Arrived at KAPB-106245	
0837	Left KAPB-106245 to KAPB-106060 cluster	
0841	Arrived at KAPB-106060 cluster	
0900	Left KAPB-106060 cluster to KAPB-106015	
0911	Arrived at KAPB-106015	
0918	Left KAPB-106015 to KAPB-106212 cluster	
0925	Arrived at KAPB-106212 cluster	
1112	Left KAPB-106212 cluster to KAPB-106103 cluster	
1117	Arrived at KAPB-106103 cluster	
1134	Left KAPB-106103 cluster to KAPB-106243 cluster	
1137	Arrived at KAPB-106243 cluster	
1207	Left KAPB-106243 cluster to KAPB-106019	
1211	Arrived at KAPB-106019	
1220	Left KAPB-106019 to KAPB-106071 cluster	
1224	Arrived at KAPB-106071 cluster	
1240	Left KAPB-106071 cluster to KAPB-106085 cluster	
1241	Arrived at KAPB-106085 cluster	
1315	Left KAPB-106085 cluster to KAPB-106095 cluster	
1318	Arrived at KAPB-106095 cluster	
1334	Left KAPB-106095 cluster to trailer	
1348	Arrived at trailer	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications above.

Name Galveta Perez

Signature *Galveta Perez*

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: \_\_\_\_\_ Initials: \_\_\_\_\_ Reviewed date: \_\_\_\_\_

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Gauging

DATE: 10/4/2020

WEATHER: Sunny, clear skies

1. ONSITE PERSONNEL (including subcontractors and government employees)	
Name	Organization
Bernard Bockish	EA - Site Manager/Supervisor
Pete Ferrari	EA - Site Health and Safety Office
Amy Rosebrough	EA - Field staff
Dylan Schmeette	EA - Field staff

2. OPERATING EQUIPMENT					
Team #1		Team #2		Spare	
YSI Professional Plus 18L100378 WH0003	<input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001	<input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002	<input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005	<input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004	<input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006	<input type="checkbox"/>
Geotech Turbidimeter 18081855	<input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009	<input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007	<input type="checkbox"/>
Solinst Water Level Meter 253056	<input type="checkbox"/>	Solinst Water Level Meter 250056 <del>WH0010</del> <sup>AR</sup> WH0507	<input checked="" type="checkbox"/>	Geotech Interface Probe 0001	<input checked="" type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Wells gauged: KAFB-106046, KAFB-106047, KAFB-106048, KAFB-106020, KAFB-106073, KAFB-106074, KAFB-106075, KAFB-106240, KAFB-106013, KAFB-106097, KAFB-106098, KAFB-106004, KAFB-106099, KAFB-106100, KAFB-106244, KAFB-106082, KAFB-106093, KAFB-106004, KAFB-106018, KAFB-106017, KAFB-106211, KAFB-106038, KAFB-106039, KAFB-106040, KAFB-106019, KAFB-106023, KAFB-106022, KAFB-106060, KAFB-106068, KAFB-106069

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0730	Leave trailer for KAFB-106047 cluster
0735	Arrive at KAFB-106047 cluster
0753	Leave KAFB-106047 cluster for KAFB-106073 cluster
0808	Arrive at KAFB-106073 cluster

Reviewed by: \_\_\_\_\_

Reviewed date: \_\_\_\_\_

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring - 62599DM01  
 Daily Quality Control Report - Non-Construction

DATE: 11/4/2020

4. WORK PERFORMED (Continued)	
0849	leave KAFB-106073 cluster for KAFB-106013 cluster
0955	Arrive at KAFB-106013 cluster
0923	leave KAFB-106013 cluster for KAFB-106100 cluster
0924	Arrive at KAFB-106100 cluster
0948	leave KAFB-106018 <sup>AP</sup> 106100 for KAFB-106018 cluster
0950	Arrive at KAFB-106018 cluster
1022	leave KAFB-106018 cluster for KAFB-106211 cluster
1115	Arrive at KAFB-106211 cluster
1137	leave KAFB-106211 cluster for KAFB-106040 cluster
1139	Arrive at KAFB-106040 cluster
1205	leave KAFB-106040 cluster for KAFB-106019
1206	Arrive at KAFB-106019
1220	leave KAFB-106019 for KAFB-106023
1224	Arrive at KAFB-106023
1231	leave KAFB-106023 for KAFB-106022
1235	Arrive at KAFB-106022
1248	leave KAFB-106022 for KAFB-106068 cluster
1251	Arrive at KAFB-106068 cluster
1309	leave KAFB-106068 cluster for KAFB-106066
1310	Arrive at KAFB-106066
1329	leave KAFB-106066 for Trailer
1334	Arrive at trailer

AR

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications above.

Name Amy Rosebrough

Signature Amy Rosebrough

EA Engineering, Science and Technology Inc., PBC

Reviewed by: \_\_\_\_\_ Initials: \_\_\_\_\_ Reviewed date: \_\_\_\_\_

6360401

6B

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 11-3-2020

WEATHER: 70°f partly cloudy SW 7MPH wind

1. ONSITE PERSONNEL (including subcontractors and government employees)		
Name	Organization	
<u>Bernard Beckisch</u>	EA - Site Manager/Supervisor	
<u>Peter Ferrari</u>	EA - Site Health and Safety Office	
<u>Gabrielon Beysse</u>	<u>TECH III</u>	
<u>Joshua Livingston</u>	<u>ENGI</u>	
<u>6B</u>		
2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSL Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSL Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSL Professional Plus 16L100641 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input checked="" type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input checked="" type="checkbox"/>
Geotech Turbidimeter 18081865 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input checked="" type="checkbox"/>	Solinst Water Level Meter 250055 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>
<u>6B</u>		
3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)		
<u>wells gaged: KAFB-106156, KAFB-106151, KAFB-106008</u>		
<u>KAFB-10652, KAFB-106152, KAFB-106003, 11</u>		
<u>KAFB-106014, KAFB-106006, KAFB-106155,</u>		
<u>KAFB-106154, KAFB-106153, KAFB-10658, KAFB-10651</u>		
<u>KAFB-106148, KAFB-106091, KAFB-106150, KAFB-10659</u>		
<u>KAFB-10653, KAFB-106079, KAFB-106080, KAFB-106076</u>		
<u>KAFB-106028, KAFB-106094, KAFB-106067,</u>		
<u>KAFB-106072, KAFB-106088</u>		
<u>6B</u>		
4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)		
<u>0712</u>	<u>left trailer to KAFB-106044 cluster</u>	
<u>0719</u>	<u>Arrival at KAFB-106044 cluster</u>	
<u>0755</u>	<u>left KAFB-106044 cluster to KAFB-106156</u>	
<u>0759</u>	<u>Arrived at KAFB-106156</u>	

Reviewed by: \_\_\_\_\_

3

Reviewed date: \_\_\_\_\_

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring - 62599DM01  
 Daily Quality Control Report - Non-Construction

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4. WORK PERFORMED (Continued) DATE: 11/13/2020

0805	Left KAFB-106150 to KAFB-106151
0808	Arrived at KAFB-106151
0816	Left KAFB-106151 to KAFB-106005 cluster
0817	Arrived at KAFB-106008 cluster
0836	Left KAFB-106008 cluster to KAFB-106152
0837	Arrived at KAFB-106152
0846	Left KAFB-106152 to KAFB-106063 cluster
0850	Arrived at KAFB-106063 cluster
0856	Left KAFB-106063 cluster to KAFB-106005
0858	Arrived at KAFB-106005
0910	Left KAFB-106005 to KAFB-106014
0912	Arrived at KAFB-106014
0923	Left KAFB-106014 to KAFB-106006
0928	Arrived at KAFB-106006
0940	Left KAFB-106006 to KAFB-106155
0941	Arrived at KAFB-106155
0950	Left KAFB-106155 to KAFB-106154
0953	Arrived at KAFB-106154
1009	Left KAFB-106154 to KAFB-106153
1010	Arrived at KAFB-106153
1020	Left KAFB-106153 to KAFB-10658
1021	Arrived at KAFB-10658
1029	Left KAFB-10658 to KAFB-10651
1030	Arrived at KAFB-10651
1041	Left KAFB-10651 to KAFB-106148
1042	Arrived at KAFB-106148
1057	Left KAFB-106148 to KAFB-106001

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications above.

*Carleton Beyene*  
 Name

*[Signature]*  
 Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 23  
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Reviewed by: \_\_\_\_\_

Initials: \_\_\_\_\_

Reviewed date: \_\_\_\_\_

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62599DM01

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring - 62599DM01  
 Daily Quality Control Report - Non-Construction

DATE: 11-3-2020

4. WORK PERFORMED (Continued)	
1058	Arrived at KAPB-106001
1109	Left KAPB-106001 to KAPB-106150
1110	Arrived at KAPB-106150
1115	Left KAPB-106150 to KAPB-10659
1119	Arrived at KAPB-10659
1135	Left KAPB-10659 to KAPB-10683
1138	Arrived at KAPB-10683
1150	Left KAPB-10683 to KAPB-106079 cluster
1151	Arrived at KAPB-106079 cluster
1212	Left KAPB-106079 cluster to KAPB-106076
1216	Arrived at KAPB-106076
1229	Left KAPB-106076 to KAPB-106028
1236	Arrived at KAPB-106028
1246	Left KAPB-106028 to KAPB-106094
1250	Arrived at KAPB-106094
1300	Left KAPB-106094 to KAPB-106067
1302	Arrived at KAPB-106067
1310	Left KAPB-106067 to KAPB-106072
1313	Arrived at KAPB-106072
1318	Left KAPB-106072 to KAPB-106088
1321	Arrived at KAPB-106088
1335	Left KAPB-106088 to trailer
1400	Arrived at trailer
<u>END OF DAY</u>	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications above.

Name Gabriel A. Beguete

Signature [Signature]

EA Engineering, Science and Technology Inc., PBC

DQCR Page 3 of 3

Reviewed by: \_\_\_\_\_ Initials: \_\_\_\_\_ Reviewed date: \_\_\_\_\_

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Gauging Team #3

DATE: 11-3-2020

WEATHER: low 70s (°F); mostly clear sky

1. ONSITE PERSONNEL (including subcontractors and government employees)		
Name	Organization	
<u>B. Boeckisch</u>	EA - Site Manager/Supervisor	
<u>P. Ferrari</u>	EA - Site Health and Safety Office	
<u>J. Messenger / D. Schaeckle</u>	EA - Team #3	
2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
<input checked="" type="checkbox"/> YSI Professional Plus 18L100378 WH0003	<input type="checkbox"/> YSI Professional Plus 15K101396 WH0001	<input type="checkbox"/> YSI Professional Plus 15L100541 WH0002
<input type="checkbox"/> MiniRAE 3000 592-915778 WH0005	<input checked="" type="checkbox"/> MiniRAE 3000 592-915790 WH0004	<input type="checkbox"/> MiniRAE 3000 592-915579 WH0006
<input checked="" type="checkbox"/> Geotech Turbidimeter 18081855 WH0567	<input type="checkbox"/> Hach 2100Q 15100C044633 WH0009	<input type="checkbox"/> Hach 2100Q 15100C045025 WH0007
<input type="checkbox"/> Solinst Water Level Meter 253056	<input type="checkbox"/> Solinst Water Level Meter 253053 WH0012	<input type="checkbox"/> Geotech Interface Probe 0001
3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)		
-	Recalibration: KAFB-106045 @ 0708 DTW <sub>MRP</sub> = 471.66	
	KAFB-106044 @ 0713 DTW <sub>MRP</sub> = 471.97	
	KAFB-106027 @ 0717 DTW <sub>MRP</sub> = 471.83 - inconsistent	
0741	Gauged TR-1A w/usgs	
0803	Gauged CC-1F w/usgs	
0820	Gauged SD-1F w/usgs	
0838	Gauged JerryCline C w/usgs	
0858	Gauged Del Sol Divider 3 w/usgs	
0936	Gauged Montessa Park 3 w/usgs	
4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)		
0701	Left field office - 0704 Arrived @ calibration wells	
0725	Left calibration wells - 0734 Met w/Hal w/usgs	
0950	Left usgs - 1014 Arrived @ Team #2 in BFF to grab paperwork	
1028	Left Team #2 - 1032 Arrived @ KAFB-106247	

Reviewed by: \_\_\_\_\_

Reviewed date: \_\_\_\_\_



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: Gauging

WEATHER: Sunny, clear skies

DATE: 11/03/2020

1. ONSITE PERSONNEL (including subcontractors and government employees)

Name	Organization
Bernard Bockish	EA - Site Manager/Supervisor
Pete Ferrari	EA - Site Health and Safety Office
Amy Rosebrough	EA - field staff
Curtis Landers	EA - field staff

2. OPERATING EQUIPMENT

Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input checked="" type="checkbox"/>	Geotech Interface Probe 0001 <input checked="" type="checkbox"/>

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Wells gauged: KAFB-106219, KAFB-106220, KAFB-106221, KAFB-106026, KAFB-106230-436, KAFB-106236-420, KAFB-106236-499, KAFB-106235-438, KAFB-106235-472, KAFB-106235-501, KAFB-106044, KAFB-106042, KAFB-106043, KAFB-106230, KAFB-106105, KAFB-106106, KAFB-106107, KAFB-106025, KAFB-106032, KAFB-106033, KAFB-106034, KAFB-106003, KAFB-106101, KAFB-106102, KAFB-106002, KAFB-106012R, KAFB-106009, KAFB-106081, KAFB-106011

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0700	leave trailer for KAFB-106044 cluster for calibration
0705	Arrive at KAFB-106044 cluster and calibrate
0745	leave KAFB-106044 cluster for KAFB-106219 cluster
0807	Arrive at KAFB-106219 cluster

Reviewed by: \_\_\_\_\_

Reviewed date: \_\_\_\_\_

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring - 62599DM01  
 Daily Quality Control Report - Non-Construction

4. WORK PERFORMED (Continued) DATE: 11/03/2020

0827	Leave KAFB-106219 cluster for KAFB-106230 cluster
0830	Arrive at KAFB-106230 cluster
0837	leave KAFB-106230 cluster for KAFB-106236
0840	Arrive at KAFB-106236
0856	leave KAFB-106236 for KAFB-106235
0900	Arrive at KAFB-106235
0921	leave KAFB-106235 for KAFB-106041 cluster
0924	Arrive at KAFB-106041 cluster
0944	leave KAFB-106041 cluster for KAFB-106026
0947	Arrive at KAFB-106026
0956	leave KAFB-106026 for trailer
1010	Arrive at trailer
1021	leave trailer for KAFB-106105 cluster
1040	Arrive at KAFB-106105 cluster
1105	leave KAFB-106105 cluster for KAFB-106025
1117	leave KAFB-106025 for KAFB-106032 cluster
1120	Arrive at KAFB-106032 cluster
1140	leave KAFB-106032 cluster for KAFB-106003 cluster
1145	Arrive at KAFB-106003 cluster
1204	leave KAFB-106003 cluster for KAFB-106002
1206	Arrive at KAFB-106002
1215	leave KAFB-106002 for KAFB-106012R
1216	Arrive at KAFB-106012R
1225	leave KAFB-106012R for KAFB-106009
1229	Arrive at KAFB-106009
1237	leave KAFB-106009 for KAFB-106081
1238	Arrive at KAFB-106081

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name Amy Rosebrough

Signature 

EA Engineering, Science and Technology Inc., PBC

Reviewed by: \_\_\_\_\_

Initials: \_\_\_\_\_

Reviewed date: \_\_\_\_\_



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: QM, TD's

DATE: 11/05/2020

WEATHER:

**1. ONSITE PERSONNEL (including subcontractors and government employees)**

Name	Organization
Bernard Bockish	EA - Site Manager/Supervisor
Pete Ferrari	EA - Site Health and Safety Office
Amy Rosebrough	EA - Field staff
Galveston Begaye	EA - Field staff

AR

**2. OPERATING EQUIPMENT**

Team #1		Team #2		Spare	
YSI Professional Plus 18L100378 WH0003	<input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001	<input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002	<input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005	<input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004	<input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006	<input type="checkbox"/>
Geotech Turbidimeter 18081855	<input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009	<input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007	<input type="checkbox"/>
Solinst Water Level Meter 253056	<input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012	<input type="checkbox"/>	Geotech Interface Probe 0001	<input type="checkbox"/>

**3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)**

Wells <sup>TD</sup> ~~gathered~~ and OJM: KAFB-106215, KAFB-106214, KAFB-106213, KAFB-106037, KAFB-106036, KAFB-106028, KAFB-106212, KAFB-106022, KAFB-106023, KAFB-106004, KAFB-106103, KAFB-106088, KAFB-106089, KAFB-106090

35  
AR

AR

**4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)**

0823	leave trailer for KAFB-106213 cluster
0832	Arrive at KAFB-106213
0930	leave KAFB-106213 cluster for KAFB-106037 cluster
0931	Arrive at KAFB-106037 cluster

Reviewed by: \_\_\_\_\_

Reviewed date: \_\_\_\_\_



Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01  
Daily Quality Control Report - Non-Construction

ROLE: O+M, TD'S

DATE: 11/6/2020

WEATHER: Sunny, clear skies

1. ONSITE PERSONNEL (including subcontractors and government employees)		
Name	Organization	
Bernard Bockish	EA - Site Manager/Supervisor	
Pete Ferrari	EA - Site Health and Safety Office	
Amy Basebrough	EA - field staff	
Galveston Begaye	EA - field staff	
2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 <input type="checkbox"/>	YSI Professional Plus 15K101396 WH0001 <input type="checkbox"/>	YSI Professional Plus 15L100541 WH0002 <input type="checkbox"/>
MiniRAE 3000 592-915778 WH0005 <input type="checkbox"/>	MiniRAE 3000 592-915790 WH0004 <input type="checkbox"/>	MiniRAE 3000 592-915579 WH0006 <input type="checkbox"/>
Geotech Turbidimeter 18081855 <input type="checkbox"/>	Hach 2100Q 15100C044633 WH0009 <input type="checkbox"/>	Hach 2100Q 15100C045025 WH0007 <input type="checkbox"/>
Solinst Water Level Meter 253056 <input type="checkbox"/>	Solinst Water Level Meter 253053 WH0012 <input type="checkbox"/>	Geotech Interface Probe 0001 <input type="checkbox"/>
3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)		
Wells TD'd and O+M: KAFB-106243, KAFB-106070, KAFB-106071, KAFB-106072, KAFB-106085, KAFB-106086, KAFB-106087, KAFB-106099, KAFB-106095, KAFB-106096, KAFB-106019		
4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)		
0820	leave trailer for KAFB-243 <sup>AP</sup> 106243	
0831	Arrive at KAFB-106243	
0849	leave KAFB-106243 for KAFB-106070 cluster	
0852	Arrive at KAFB-106070 cluster	

AR

AR

Reviewed by: \_\_\_\_\_

Reviewed date: \_\_\_\_\_



IP and Haz wells on list

Well Gauging Form Team 1

Project: Kirtland AFB BFF ST-106/SS-111

Well ID	Previous DTW 2020 Q3 (ft MRP)		Date / Time	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW								
KAFB-106001	—	466.72	11-3-2020 / 1102	0.0	—	468.06	GB	WH0566		TWV
KAFB-106002	—	464.12	11-3-2020 / 1210	0.0	—	465.48	CAL	WH0012		TWV
KAFB-106003	—	462.13	11-3-2020 / 1158	0.0	—	463.10	AR	WH0012		TWV
KAFB-106005	—	468.63	11/3/2020 / 0906	3.8	470.34 <sup>33</sup>	470.34	GB	WH0566 <del>2538</del>		TOPC
KAFB-106006	—	473.59	11-3-2020 / 0932	0.2	474.97	474.97	GB	WH0566		TWV
KAFB-106007	—	471.79	11-3-2020 / 1046	0.0	—	473.26	dm/ds	WH0567		TOPC
KAFB-106009	—	470.30	11-3-2020 / 1231	0.0	—	472.37	AR	WH0012		TWV
KAFB-106011	—	475.30	11-3-2020 / 1247	0.0	—	477.38	CAL	WH0012		TOPC
KAFB-106012R	—	467.11	11-3-2020 / 1222	0.0	—	468.77	AR	WH0012		TOPC
KAFB-106014	—	472.25	11-3-2020 / 0916	0.7	—	473.95	JRL	WH0566		TOPC
KAFB-106015	—	464.51	11-4-2020 / 0914	0.0	—	469.11	GB	WH0012		TOPC
KAFB-106016	—	464.44	11-4-2020 / 0806	0.0	—	465.71	GB	WH0012		TOPC
KAFB-106024	—	465.78	11-3-2020 / 1114	0.0	—	467.05	dm/ds	WH0567		TWV
KAFB-106027	—	470.83	11-3-2020 / 0721	0.0	—	471.95	GB	WH0012		TOPC
KAFB-106044	—	470.97	11-3-2020 / 0730	0.0	—	472.13	GB	WH0012		TOPC
KAFB-106045	—	470.70	11-3-2020 / 0735	0.0	—	471.82	GB	WH0012		TOPC
KAFB-106046	—	475.19	11-4-2020 / 0747	0.0	—	476.92	DS	WH0567	EA Barricade	TWV
KAFB-106047	—	475.26	11-4-2020 / 0739	0.0	—	476.96	DS	WH0567	EA Barricade	TWV
KAFB-106048	—	474.99	11-4-2020 / 0723	0.0	—	476.69	DS	WH0567	EA Barricade	TWV
KAFB-106060	—	467.53	11-4-2020 / 0848	0.0	—	469.29	GB	WH0012		TWV
KAFB-106061	—	467.48	11-4-2020 / 0854	0.0	—	469.25	GB	WH0012		TWV

EA AR/JL		Well Gauging Form Team 3						52	2020
Project: Kirtland AFB BFF ST-106/SS-111									
Well ID	Previous DTW 2020 Q3 (ft MRP)		Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Reference Point
	Depth to NAPL	DTW							
KAFB-106017	—	464.96	11-4-2020 1120	0.0	—	467.71	OS/AR	0001	TOPC
KAFB-106018	—	458.57	11/04/2020 1014	0.0	—	461.04	AR	WH0567	TOPC
KAFB-106025	—	438.86	11/02/2020 1111	0.0	—	442.58	CRL	WH0012	TWV
KAFB-106026	—	444.00	11/03/2020 0834	0.0	—	448.73	CRL	WH0012	TWV
KAFB-106032	—	439.06	11/03/2020 1132	0.0	—	441.47	CRL	WH0012	Gibson Med. Ctr.
KAFB-106033	—	439.22	11/03/2020 1125	0.0	—	441.61	CRL	WH0012	Gibson Med. Ctr.
KAFB-106034	—	440.06	11/02/2020 1129	0.0	—	442.47	CRL	WH0012	Gibson Med. Ctr.
KAFB-106041	—	445.85	11/03/2020 0932	0.0	—	450.19	AR	WH0012	TWV
KAFB-106042	—	445.60	11/03/2020 0938	0.0	—	449.91	AR	WH0012	TWV
KAFB-106043	—	445.85	11/03/2020 0929	0.0	—	450.13	CRL	WH0012	TWV
KAFB-106049	—	437.36	11/02/2020 CRL 1238	0.0	—	441.08	AR	WH0012	TWV
KAFB-106050	—	436.75	11/02/2020 1226	0.0	—	440.49	CRL	WH0012	TWV
KAFB-106051	—	437.06	11/02/2020 1234	0.0	—	440.78	CRL	WH0012	TWV
KAFB-106052	—	440.41	11/02/2020 1302	0.0	—	444.33	AR	WH0012	TWV
KAFB-106053	—	440.33	11/02/2020 1257	0.0	—	444.26	AR	WH0012	TWV
KAFB-106054	—	439.91	11/02/2020 1152	0.0	—	443.90	CRL	WH0012	TWV
KAFB-106055	—	446.87	11/02/2020 1068	0.0	—	451.22	CRL	WH0012	TWV
KAFB-106057	—	447.22	11/02/2020 1014	0.0	—	451.62	AR	WH0012	TWV
KAFB-106058	—	447.79	11/02/2020 1020	0.0	—	452.17	AR	WH0012	TWV
KAFB-106091	—	436.11	11/02/2020 1152	0.0	—	440.74	AR	WH0012	TWV
KAFB-106092	—	436.25	11/02/2020 1204 CRL	0.0	—	440.54 441.12	AR	WH0012	TWV



Well Gauging Form Team 2

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2020

Project: Kirtland AFB BFF ST-106/SS-111

Quarter: 4

Well ID	Previous DTW 2018 Q1 (ft MRP)		Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW								
KAFB-106097	?	—	469.59						Call VA Police	TWV
KAFB-106098	?	—	469.67						Call VA Police	TWV
KAFB-106099	?	—	464.50						EA Barricade	TWV
KAFB-106100	?	—	464.52						EA Barricade	TWV
KAFB-106103	—	451.10	11-4-2020/1123	0.0	—	454.45	GB	WHT0012		TWV
KAFB-106104	—	450.34	11-4-2020/1128	0.0	—	453.90	GB	WHT0012		TWV
KAFB-106212	—	444.86	11-4-2020/1016	0.0	—	448.59	JRL			TWV
KAFB-106213	—	447.64	11-4-2020/1006	0.0	—	451.44	GB	WHT0012	Church - make sure you see if anyone is present at the church to inform them that you are there	TWV
KAFB-106214	—	447.76	11-4-2020/0959	0.0	—	451.58	GB			TWV
KAFB-106215	—	447.99	11-4-2020/0950	0.0	—	451.83	GB			TWV
KAFB-106231	—	448.66	11-2-2020/1040	0.0	—	453.81	GB	WHT0566	O+M, TD's Barricades by SWSS	TWV
KAFB-106232	—	448.22	11-2-2020/1100	0.0	—	453.35	GB	WHT0566	O+M, TD's Barricades by SWSS	TWV
KAFB-106240-449	?	—	469.49							TWV
KAFB-106242-418	—	438.2	11-2-2020/1203	0.0	—	440.61	GB	WHT0566	O+M, TD's Barricades by SWSS	TWV
KAFB-106243-425	—	442.84	11-4-2020/1159	0.0	—	445.95	GB	WHT0012		TWV
KAFB-106244-445	?	—	465.3							TWV
KAFB-106211	—	Dry								TWV

035 — — 11-4-2020 1030 0.0 — 447.88 GB WHT0012



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Well Gauging Form Team 2

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2020

Project: Kirtland AFB BFF ST-106/SS-111

Quarter : 4

Well ID	Previous DTW 2018 Q1 (ft MRP)		Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW								
KAFB-106097	—	469.59	11/4/2020 / 0913	0.0	—	471.55	AR	WH0567	Call VA Police	TWV
KAFB-106098	—	469.67	11-4-2020 / 0918	0.0	—	471.68	AR/DS	WH0567	Call VA Police	TWV
KAFB-106099	—	464.50	11/4/2020 / 0932	0.0	—	466.17	AR	WH0567	EA Barricade	TWV
KAFB-106100	—	464.52	11-4-2020 / 0936	0.0	—	466.22	AR/DS	WH0567	EA Barricade	TWV
✓ KAFB-106103	—	451.10								TWV
✓ KAFB-106104	—	450.34								TWV
✓ KAFB-106212	—	444.86								TWV
✓ KAFB-106213	—	447.64							Church - make sure you see if anyone is present at the church to inform them that you are there	TWV
✓ KAFB-106214	—	447.76								TWV
✓ KAFB-106215	—	447.99								TWV
KAFB-106231	—	448.66	11-2-2020 / 1040	0.0	—	453.81	GB	WH0566		O+M, TDs Barricades by SWSS
KAFB-106232	—	448.22	11-2-2020 / 1100	0.0	—	453.35	GB	WH0566	O+M, TDs Barricades by SWSS	TWV
KAFB-106240-449	—	469.49	11/3/2020 / 0901	0.0	—	471.46	AR	WH0567		TWV
KAFB-106242-418	—	438.2	11-2-2020 / 1203	0.0	—	440.61	GB	WH0566	O+M, TDs Barricades by SWSS	TWV
✓ KAFB-106243-425	—	442.84				466.92 <sup>B</sup>	AR/DS			TWV
KAFB-106244-445	—	465.3	11-4-2020 / 0945	0.0	—	466.92	AR/DS	WH0567		TWV
KAFB-106211	—	Dry	11-4-2020	0.0	—	Dry	AR/DS	WH0567		TWV



Well Gauging Form Team 3

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Project: Kirtland AFB BFF ST-106/SS-111

Quarter : 4

Well ID	Previous DTW 2020 Q3 (ft MRP)		Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW								
KAFB-106093	—	436.33	11/01/2020 1157	0.0	—	440.54	CRL	WH0012		TWV
KAFB-106105	—	443.65	11/03/2020 1055	0.0	—	447.73	CRL	WH0012		TWV
KAFB-106106	—	443.52	11/03/2020 1100	0.0	—	447.62	AR	WH0012		TWV
KAFB-106107	—	443.76	11/03/2020 1048	0.0	—	447.83	CRL	WH0012		TWV
KAFB-106204	—	454.10	11/02/2020 0827	0.0	—	459.94	CRL	WH0012	*459.94 CRL	TWV
KAFB-106205	—	454.47	11/02/2020 0833	0.0	—	460.39	AR	WH0012		TWV
KAFB-106206	—	454.61	11/02/2020 0840	0.0	—	460.55	AR	WH0012		TWV
KAFB-106207	—	464.85	11/02/2020 0816	0.0	—	472.86	CRL	WH0012		TWV
KAFB-106208	—	464.56	11/02/2020 0810	0.0	—	472.56	AR	WH0012		TWV
KAFB-106209	—	463.90	11/02/2020 0804	0.0	—	471.87	CRL	WH0012		TWV
KAFB-106216	—	456.00	11/02/2020 0935	0.0	—	460.53	CRL	WH0012		TWV
KAFB-106217	—	455.90	11/02/2020 0940	0.0	—	460.45	AR	WH0012		TWV
KAFB-106218	—	456.05	11/02/2020 0946	0.0	—	460.61	AR	WH0012		TWV
KAFB-106219	—	462.07	11/03/2020 0817	0.0	—	467.59	CRL	WH0012		TWV
KAFB-106220	—	462.00	11/03/2020 0822	0.0	—	467.50	AR	WH0012		TWV
KAFB-106221	—	461.80	11/03/2020 0810	0.0	—	467.25	AR	WH0012		TWV
KAFB-106222	—	454.87	11/04/2020 0903	0.0	—	460.38	CRL	WH0012		TWV
KAFB-106223	—	455.46	11/02/2020 0909	0.0	—	461.01	AR	WH0012		TWV
KAFB-106224	—	456.61	11/02/2020 0918	0.0	—	462.06	CRL	WH0012		TWV
KAFB-106225	—	448.24	11/02/2020 1039	0.0	—	453.25	AR	WH0012		TWV
KAFB-106226	—	448.85	11/02/2020 1045	0.0	—	453.83	CRL	WH0012		TWV

EA		Well Gauging Form Team 3							52	2020
		Project: Kirtland AFB BFF ST-106/SS-111								Quarter : 4
Well ID	Previous DTW 2020 Q3 (ft MRP)		Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW								
KAFB-106227	—	449.62	11/02/2020 1052	0.0	—	454.53	AR	WH0012		TWV
KAFB-106229	—	436.02	11/02/2020 1209	0.0	—	440.89	AR	WH0012		TWV
KAFB-106230	—	446.08	11/03/2020 0950	0.0	—	451.00	AR	WH0012		TWV
KAFB-106235-438	—	437.29	11/03/2020 0907	0.0	—	441.54	CRL	WH0012		TWV
KAFB-106235-472	—	437.28	11/03/2020 0910	0.0	—	441.52	AR	WH0012		TWV
KAFB-106235-501	—	437.32	11/03/2020 0914	0.0	—	<del>441.60</del> 441.60	CRL	WH0012		TWV
KAFB-106236-436	—	437.09	11/03/2020 0843	0.0	—	441.73	CRL	WH0012		TWV
KAFB-106236-470	—	437.07	11/03/2020 0848	0.0	—	441.73	CRL	WH0012		TWV
KAFB-106236-499	—	437.11	11/03/2020 0853	0.0	—	441.77	AR	WH0012		TWV
KAFB-106241-428	—	446.42	11/02/2020 1001	0.0	—	450.65	CRL	WH0012		TWV



GR/PF

Well Gauging Form Team 2

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2020

Project: Kirtland AFB BFF ST-106/SS-111

Quarter : 4

Well ID	Previous DTW 2018 Q1 (ft MRP)		Date Time	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW								
KAFB-106004	—	467.53	11-4-2020 0927	0.0	—	469.22	DS/AR	WH0567	EA Barricade	TOPC
KAFB-106013	—	472.65	11-4-2020 0909	0.0	—	474.63	DS/AR	WH0567	Call VA Police	TOPC
KAFB-106019	—	477.06	11/4/2020 / 1208	0.0	—	479.32	AR	WH0567		TOPC
KAFB-106020	—	462.88	11-4-2020 0917	0.0	—	465.31	DS/AR	0001	Call VA Police	TWV
KAFB-106021	—	436.31	11-2-2020 / 1219	0.0	—	438.86	GB	WH0566	O+M, TDS Barricades by SWSS	TWV
KAFB-106022	—	440.15	11-4-2020 / 1239	0.0	—	443.72	AR	WH0567		TWV
KAFB-106023	—	450.85	11-4-2020 1225	0.0	—	454.04	AR	WH0567		TWV
KAFB-106029	—	432.42	11-2-2020 / 1144	0.0	—	435.45	GB	WH0566	O+M, TDS Barricades by SWSS	TWV
KAFB-106030	—	432.54	11-2-2020 / 1125	0.0	—	435.55	GB	WH0566	O+M, TDS Barricades by SWSS	TWV
KAFB-106031	—	432.56	11-2-2020 / 0920	0.0	—	435.69	GB	WH0566	O+M, TDS Barricades by SWSS	TWV
KAFB-106035	—	444.20	11-4-2020 / 1030	-0.0	—	442.88 455.55	GB/SL	GB WH0012 WH0566	Church - make sure you see if anyone is present at the church to inform them that you are there	TWV
KAFB-106036	—	444.68	11-4-2020 / 1028	0.0	—	448.35	GB/SL	WH0012		TWV
KAFB-106037	—	445.31	11-4-2020 / 1016	0.0	—	449.00	GB/SL	WH0012		TWV
KAFB-106038	—	473.93	11-4-2020 / 1148	0.0	—	476.50	AR	WH0567		TOPC
KAFB-106039	—	473.74	11/4/2020 / 1144	0.0	—	467.32	AR	WH0567	DTW: 476.32	TOPC
KAFB-106040	—	472.64	11-4-2020 / 1153	0.0	—	475.24	AR/DS	WH0567		TOPC
KAFB-106065	—	471.03	11-2-2020 / 1308	0.0	—	472.79	GB	WH0566	USS Bullhead	TWV
KAFB-106066	—	471.23	11-4-2020 / 1315	0.0	—	473.17	AR/DS	WH0567	USS Bullhead	TWV
KAFB-106067	—	470.01	11-3-2020 / 1304	0.0	—	471.75	GB	WH0566		TWV
KAFB-106068	—	469.79	11-4-2020 / 1254	0.0	—	471.92	DS/AR	WH0567		TWV
KAFB-106069	—	?	11-4-2020 / 1303	0.0	—	471.68	DS/AR	WH0567		TWV



Well Gauging Form Team 2

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Project: Kirtland AFB BFF ST-106/SS-111

Quarter : 4

Well ID	Previous DTW 2018 Q1 (ft MRP)		Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW								
KAFB-106069	—	469.61								TWV
KAFB-106070	—	440.55	11-4-2020/1231	0.0	—	443.86	GB	WH0012		TWV
KAFB-106071	—	442.82	11-4-2020/1226	0.0	—	446.08	GB	WH0012		TWV
KAFB-106072	—	441.04	11-3-2020/1315	0.0	—	443.87	JRL	WH0566		TWV
KAFB-106073	—	461.76	11-3-2020/0843	0.0	—	464.05	AR	WH0567	Call VA Police	TWV
KAFB-106074	—	462.50	11-4-2020/0830	0.0	—	464.79	DS/AR	WH0567	Call VA Police	TWV
KAFB-106075	—	462.47	11-4-2020/0837	0.0	—	464.78	DS/AR	WH0567	Call VA Police	TWV
KAFB-106082	—	457.69	11/4/2020/0957	0.0	—	460.10	AR	WH0567	Call VA Police	TWV
KAFB-106083	—	457.34	11-4-2020/1008	0.0	—	459.75	DS/AR	WH0567	Call VA Police	TWV
KAFB-106084	—	460.14	4/4/2020/1003	0.0	—	462.58	AR	WH00567	Call VA Police	TWV
KAFB-106085	—	439.30	11-4-2020/1307	0.0	—	442.08	GB	WH0012		TWV
KAFB-106086	—	439.66	11-4-2020/1258	0.0	—	442.46	GB	WH0012		TWV
KAFB-106087	—	438.81	11-4-2020/1250 11-4-2020/0457	0.0	—	441.69	GB	WH0012		TWV
KAFB-106088	—	446.65	11-3-2020/1330	0.0	—	449.18	GB	WH0566		TWV
KAFB-106089	—	446.33	11-4-2020/1150	0.0	—	449.39	GB	WH0012		TWV
KAFB-106090	—	445.17	11-4-2020/1142	0.0	—	448.26	GB	WH0012		TWV
KAFB-106094	—	467.24	11-3-2020/1254	0.0	—	468.82	GB	WH0566		TWV
KAFB-106095	—	466.79	11-4-2020/1323	0.0	—	468.82	GB	WH0012		TWV
KAFB-106096	—	467.44	11-4-2020/1328	0.0	—	469.42	GB	WH0012		TWV



Well Gauging Form Team 1

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Project: Kirtland AFB BFF ST-106/SS-111

Quarter : 4

Well ID	Previous DTW 2020 Q3 (ft MRP)		Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point	
	Depth to NAPL	DTW									
KAFB-106062	—	473.46	11-4-2020 / 10820	0.0	—	475.30	GB	WHT0012	APTIM	TOPC	
KAFB-106077	—	468.35	11-3-2020 / 1057	0.0	—	469.78	dm/os	WHT0567		TWV	
KAFB-106078	—	467.49	11-3-2020 / 1104	0.0	—	468.92	dm/os	WHT0567		TWV	
KAFB-106080	—	470.45	11-3-2020 / 1205	0.0	—	471.93	GB	WHT0566		TOPC	
KAFB-106081	—	471.65	11-3-2020 / 1241	0.0	—	473.59	AR	WHT012		TOPC	
KAFB-106101	—	462.27	11-3-2020 / 1154	0.0	—	463.37	CRL	WHT012		TOPC	
KAFB-106102	—	462.41	11-3-2020 / 1149	0.0	—	463.48	CRL	WHT012		TOPC	
KAFB-106201	—	479.55	11-2-2020 / 0732	0.0	—	488.10	AR	WHT0012	Do early in the morning and ensure production well is pumping	TOPC	
KAFB-106202	—	480.58	11-2-2020 / 0729	0.0	—	488.84	CRL			TOPC	
KAFB-106203	—	481.01	11-2-2020 / 0741	0.0	—	488.96	CRL			TOPC	
KAFB-3411	—	465.54	11-4-2020 / 0757	0.0	—	467.02	GB	WHT0012		TOPC	
KAFB-106245-460	—	483.36	11-4-2020 / 0831	0.0	—	485.78	GB	WHT0012		TOPC	
KAFB-106247	—	474.03	11-3-2020 / 1035	0.0	—	475.35	dm/os	WHT0567		TOPC	
KAFB-106008	—	473.64	11-3-2020 / 0822	0.0	—	475.72	GB	253056		TWV	
KAFB-106010	—	465.37	11-2-2020 / 1342	0.0	—	467.77	GB	253056		TWV	
KAFB-106028	—	471.09	11-3-2020 / 1242	0.0	—	473.08	GB	253056		TOPC	
KAFB-106059	469.91	470.06	11-2-2020 / 0819	3.7	471.87	471.88	GB	253056		TOPC	
KAFB-106063	—	NA	<del>_____</del>							APTIM	TOPC
KAFB-106064	—	NA	<del>_____</del>							APTIM	TOPC
KAFB-106076	467.25	467.26	11-3-2020 / 1218	4.4	—	468.78	GB	253056		TWV	
KAFB-106079	—	471.91	11-3-2020 / 1157	1.5	—	473.86	GB	253056		TOPC	

GB



Well Gauging Form Team 1

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2020

Project: Kirtland AFB BFF ST-106/SS-111

Quarter : 4

Well ID	Previous DTW 2020 Q3 (ft MRP)		Date / Time	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW								
KAFB-106148-484	—	466.3	11-3-2020/1048	0.0	—	467.81	GB	253056		TWV
KAFB-106149-484	—	468.22	11-2-2020/0758	0.0	—	469.89	GB	253056		TWV
KAFB-106150-484	466.50	466.88	11-3-2020/1110	0.0	467.97	468.07	GB	253056		TWV
KAFB-106151-484	—	468.01	11-2-2020/0811	0.0	—	469.78	GB	253056		TWV
KAFB-106152-484	—	469.79	11-2-2020/0838	0.0	—	471.63	JRL	253056		TWV
KAFB-106153-484	—	471.22	11-3-2020/1014	0.0	—	473.01	GB	253056		TWV
KAFB-106154-484	—	469.43	11-3-2020/0955	0.0	471.05	471.09	GB	253056		TWV
KAFB-106155-484	—	469.88	11-3-2020/0944	0.0	—	471.50	GB	253056		TWV
KAFB-106156-484	—	463.31	11-2-2020/0800	0.0	—	464.76	GB	253056		TWV
KAFB-106S1-447	—	467.31	11-3-2020/1034	0.0	—	468.89	JRL	253056		TWV
KAFB-106S2-451	—	474.51	11-2-2020/0828	0.0	—	476.39	GB	253056		TOPC
KAFB-106S3-449	—	473.59	11-3-2020/1142	0.0	—	475.56	GB	253056		TOPC
<i>clean</i> KAFB-106S4-446 <i>clean</i>	—	468.51	11-4-2020/0747	0.0	—	470.45	GB	WH0012		TOPC
KAFB-106S5-446	—	465.38	11-2-2020/1335	0.0	—	467.90	GB	253056		TWV
KAFB-106S7-451	—	470.87	11-2-2020/1315	0.0	—	473.29	GB	253056		TWV
KAFB-106S8-451	—	473.61	11-3-2020/1026	0.0	—	475.30	GB	253056		TOPC
KAFB-106S9-447	—	468.08	11-3-2020/1122	0.0	—	469.74	GB	253056		TOPC

**Table E-2-1  
Water Level Meter Calibration Data**

	Depth to Water (feet below ground surface)					Difference Between Meters (feet)					
	Interface Probe										
Well Identification	WH0567	WH0566	WH0012/253053 (control probe)	253056	0001	253053 and 253056	253053 and WH0567	253053 and WH0566	WH0567 and WH0566	253053 and 0001	253056 and 0001
KAFB-106027	471.66	471.57	471.95	471.99	472.09	-0.04	0.29	0.38	0.09	-0.14	-0.1
KAFB-106044	471.97	471.71	472.13	472.13	472.22	0	0.16	0.42	0.26	-0.09	-0.09
KAFB-106045	471.83	471.43	471.82	471.81	471.93	0.01	-0.01	0.39	0.4	-0.11	-0.12
<b>Average Difference</b>						-0.02	0.14	0.38	0.25	-0.13	-0.11
<b>Correction Fact</b>	<b>0.16</b>	<b>0.38</b>	<b>0</b>	<b>0</b>	<b>-0.13</b>						

**Re-measurments for WH0567 Calibration on 11/5/2020**

Well Identification	WH0567	WH0012/253053 (control probe)	Difference between WH0012 and WH0567
KAFB-106038	476.51	476.65	0.14
KAFB-106040	475.25	475.37	0.12
KAFB-106039	476.34	476.47	0.13
<b>Average Difference</b>			0.13

**Table E-2-2  
Gauging Calibration Corrections, Q4 2020**

Well Location ID	Reference Elevation Interval (ft AMSL)	Date and Time of Measurement	Depth to LNAPL (ft MRP)	Depth to Water (ft MRP)	Water Level Interface Probe Used (Serial Number)	Correction Applied (ft)	Corrected Depth to LNAPL (ft MRP)	Corrected Depth to Water (ft MRP)
CC-1F	NA	11/3/2020 08:05	—	492.46	WH0567	0.16	—	492.62
Del Sol Divider 3	NA	11/3/2020 08:58	—	327.64	WH0567	0.16	—	327.80
Jerry Cline (3) 8	NA	11/3/2020 08:38	—	412.20	WH0567	0.16	—	412.36
KAFB-0118	NA	11/2/2020 12:32	—	443.92	WH0567	0.16	—	444.08
KAFB-0120	NA	11/2/2020 12:42	—	412.74	WH0567	0.16	—	412.90
KAFB-0121	NA	11/2/2020 12:19	—	431.11	WH0567	0.16	—	431.27
KAFB-0213	NA	11/2/2020 08:48	—	407.95	WH0567	0.16	—	408.11
KAFB-0219	NA	11/2/2020 10:39	—	389.11	WH0567	0.16	—	389.27
KAFB-0222	NA	11/2/2020 10:52	—	369.85	WH0567	0.16	—	370.01
KAFB-0417	NA	11/2/2020 12:52	—	440.72	WH0567	0.16	—	440.88
KAFB-0504	NA	11/2/2020 13:18	—	482.59	WH0567	0.16	—	482.75
KAFB-0505	NA	11/2/2020 13:59	—	489.10	WH0567	0.16	—	489.26
KAFB-0507R	NA	11/2/2020 13:51	—	483.74	WH0567	0.16	—	483.90
KAFB-0508	NA	11/2/2020 13:30	—	478.09	WH0567	0.16	—	478.25
KAFB-0510	NA	11/2/2020 08:12	—	495.15	WH0567	0.16	—	495.31
KAFB-0512R	NA	11/2/2020 13:07	—	427.81	WH0567	0.16	—	427.97
KAFB-0514	NA	11/2/2020 11:28	—	332.94	WH0567	0.16	—	333.10
KAFB-0517	NA	11/2/2020 11:13	—	320.92	WH0567	0.16	—	321.08
KAFB-0518	NA	11/2/2020 12:04	—	300.26	WH0567	0.16	—	300.42
KAFB-0520	NA	11/2/2020 11:46	—	374.27	WH0567	0.16	—	374.43
KAFB-0522	NA	11/2/2020 11:36	—	394.95	WH0567	0.16	—	395.11
KAFB-0524	NA	11/2/2020 13:42	—	469.84	WH0567	0.16	—	470.00
KAFB-0525	NA	11/2/2020 10:59	—	355.01	WH0567	0.16	—	355.17
KAFB-106001 <sup>a</sup>	4857/4838	11/3/2020 11:02	—	468.06	WH0566	0.38	—	468.44
KAFB-106002	4857	11/3/2020 12:10	—	465.48	WH0012	0.00	—	465.48
KAFB-106003	4857	11/3/2020 11:58	—	463.10	WH0012	0.00	—	463.10
KAFB-106004	4857	11/4/2020 09:27	—	469.22	WH0567	0.16	—	469.38
KAFB-106005	4857	11/3/2020 09:06	470.33	470.34	WH0566	0.38	470.71	470.72
KAFB-106006	4857	11/3/2020 09:32	—	474.97	WH0566	0.38	—	475.35
KAFB-106007	4857	11/3/2020 10:46	—	473.26	WH0567	0.16	—	473.42
KAFB-106008	4857	11/3/2020 08:22	—	475.72	253056	0.00	—	475.72
KAFB-106009	4857	11/3/2020 12:31	—	472.37	WH0012	0.00	—	472.37
KAFB-106010	4857	11/2/2020 13:42	—	467.77	253056	0.00	—	467.77
KAFB-106011	4857	11/3/2020 12:47	—	477.38	WH0012	0.00	—	477.38
KAFB-106012R	4857	11/3/2020 12:22	—	468.77	WH0012	0.00	—	468.77
KAFB-106013	4857	11/4/2020 09:09	—	474.63	WH0567	0.16	—	474.79
KAFB-106014	4857	11/3/2020 09:16	—	473.95	WH0566	0.38	—	474.33
KAFB-106015 <sup>a</sup>	4857/4838	11/4/2020 09:14	—	469.11	WH0012	0.00	—	469.11
KAFB-106016	4857	11/4/2020 08:06	—	465.71	WH0012	0.00	—	465.71
KAFB-106017 <sup>a</sup>	4857/4838	11/4/2020 11:20	—	467.71	0001	-0.13	—	467.58
KAFB-106018 <sup>a</sup>	4857/4838	11/4/2020 10:14	—	461.04	0001	-0.13	—	460.91
KAFB-106019 <sup>a</sup>	4857/4838	11/4/2020 12:08	—	479.32	WH0567	0.16	—	479.48
KAFB-106020	4857	11/4/2020 08:17	—	465.31	0001	-0.13	—	465.18
KAFB-106021 <sup>a</sup>	4857/4838	11/2/2020 12:19	—	438.80	WH0566	0.38	—	439.18
KAFB-106022 <sup>a</sup>	4857/4838	11/4/2020 12:39	—	443.72	WH0567	0.16	—	443.88
KAFB-106023	4857	11/4/2020 12:25	—	454.04	WH0567	0.16	—	454.20
KAFB-106024	4857	11/3/2020 11:14	—	467.05	WH0567	0.16	—	467.21
KAFB-106025 <sup>a</sup>	4857/4838	11/3/2020 11:11	—	442.58	WH0012	0.00	—	442.58
KAFB-106026	4857	11/3/2020 08:34	—	448.73	WH0012	0.00	—	448.73
KAFB-106027	4857	11/3/2020 07:21	—	471.95	WH0012	0.00	—	471.95
KAFB-106028	4857	11/3/2020 12:42	—	473.08	253056	0.00	—	473.08
KAFB-106029	4857	11/2/2020 11:44	—	435.45	WH0566	0.38	—	435.83
KAFB-106030	4838	11/2/2020 11:25	—	435.55	WH0566	0.38	—	435.93
KAFB-106031	4814	11/2/2020 09:20	—	435.69	WH0566	0.38	—	436.07
KAFB-106032	4857	11/3/2020 11:32	—	441.47	WH0012	0.00	—	441.47
KAFB-106033	4838	11/3/2020 11:25	—	441.61	WH0012	0.00	—	441.61
KAFB-106034	4814	11/3/2020 11:29	—	442.47	WH0012	0.00	—	442.47
KAFB-106035	4857	11/4/2020 10:30	—	447.88	WH0012	0.00	—	447.88
KAFB-106036	4838	11/4/2020 10:38	—	448.35	WH0012	0.00	—	448.35
KAFB-106037	4838	11/4/2020 10:46	—	449.00	WH0012	0.00	—	449.00
KAFB-106038	4857	11/4/2020 11:48	—	476.50	WH0567	0.16	—	476.66
KAFB-106039	4838	11/4/2020 11:44	—	476.32	WH0567	0.16	—	476.48
KAFB-106040	4814	11/4/2020 11:53	—	475.24	WH0567	0.16	—	475.40
KAFB-106041	4857	11/3/2020 09:32	—	450.19	WH0012	0.00	—	450.19
KAFB-106042	4857	11/3/2020 09:38	—	449.91	WH0012	0.00	—	449.91
KAFB-106043	4814	11/3/2020 09:29	—	450.13	WH0012	0.00	—	450.13
KAFB-106044	4838	11/3/2020 07:30	—	472.13	WH0012	0.00	—	472.13
KAFB-106045	4814	11/3/2020 07:35	—	471.82	WH0012	0.00	—	471.82
KAFB-106046	4857	11/4/2020 07:47	—	476.92	WH0567	0.16	—	477.08
KAFB-106047	4838	11/4/2020 07:39	—	476.96	WH0567	0.16	—	477.12
KAFB-106048	4814	11/4/2020 07:23	—	476.69	WH0567	0.16	—	476.85
KAFB-106049	4857	11/2/2020 12:38	—	441.08	WH0012	0.00	—	441.08
KAFB-106050	4838	11/2/2020 12:26	—	440.49	WH0012	0.00	—	440.49

**Table E-2-2  
Gauging Calibration Corrections, Q4 2020**

Well Location ID	Reference Elevation Interval (ft AMSL)	Date and Time of Measurement	Depth to LNAPL (ft MRP)	Depth to Water (ft MRP)	Water Level Interface Probe Used (Serial Number)	Correction Applied (ft)	Corrected Depth to LNAPL (ft MRP)	Corrected Depth to Water (ft MRP)
KAFB-106051	4814	11/2/2020 12:34	—	440.78	WH0012	0.00	—	440.78
KAFB-106052	4857	11/2/2020 13:02	—	444.33	WH0012	0.00	—	444.33
KAFB-106053	4838	11/2/2020 12:57	—	444.26	WH0012	0.00	—	444.26
KAFB-106054	4814	11/2/2020 12:52	—	443.90	WH0012	0.00	—	443.90
KAFB-106055	4857	11/2/2020 10:08	—	451.22	WH0012	0.00	—	451.22
KAFB-106057	4838	11/2/2020 10:14	—	451.62	WH0012	0.00	—	451.62
KAFB-106058	4814	11/2/2020 10:20	—	452.17	WH0012	0.00	—	452.17
KAFB-106059	4857	11/2/2020 08:19	471.87	471.88	253056	0.00	471.87	471.88
KAFB-106060	4838	11/4/2020 08:48	—	469.29	WH0012	0.00	—	469.29
KAFB-106061	4814	11/4/2020 08:54	—	469.25	WH0012	0.00	—	469.25
KAFB-106062	4814	11/4/2020 08:20	—	475.30	WH0012	0.00	—	475.30
KAFB-106063 <sup>p</sup>	4838		NA			0.00	NA	NA
KAFB-106064 <sup>p</sup>	4857		NA			0.00	NA	NA
KAFB-106065	4838	11/2/2020 13:08	—	472.79	WH0566	0.38	—	473.17
KAFB-106066	4814	11/4/2020 13:15	—	473.17	WH0567	0.16	—	473.33
KAFB-106067	4857	11/3/2020 13:04	—	471.75	WH0566	0.38	—	472.13
KAFB-106068	4814	11/4/2020 12:54	—	471.92	WH0567	0.16	—	472.08
KAFB-106069	4838	11/4/2020 13:03	—	471.68	WH0567	0.16	—	471.84
KAFB-106070	4857	11/4/2020 12:31	—	443.86	WH0012	0.00	—	443.86
KAFB-106071	4814	11/4/2020 12:26	—	446.08	WH0012	0.00	—	446.08
KAFB-106072	4838	11/3/2020 13:15	—	443.87	WH0566	0.38	—	444.25
KAFB-106073	4838	11/3/2020 08:43	—	464.05	WH0567	0.16	—	464.21
KAFB-106074	4814	11/4/2020 08:30	—	464.79	WH0567	0.16	—	464.95
KAFB-106075	4857	11/4/2020 08:37	—	464.78	WH0567	0.16	—	464.94
KAFB-106076	4857	11/3/2020 12:18	—	468.78	253056	0.00	—	468.78
KAFB-106077	4838	11/3/2020 10:57	—	469.78	WH0567	0.16	—	469.94
KAFB-106078	4814	11/3/2020 11:04	—	468.92	WH0567	0.16	—	469.08
KAFB-106079	4857	11/3/2020 11:57	—	473.86	253056	0.00	—	473.86
KAFB-106080	4838	11/3/2020 12:05	—	471.93	WH0566	0.38	—	472.31
KAFB-106081	4814	11/3/2020 12:41	—	473.59	WH0012	0.00	—	473.59
KAFB-106082	4857	11/4/2020 09:57	—	460.10	WH0567	0.16	—	460.26
KAFB-106083	4838	11/4/2020 10:08	—	459.75	WH0567	0.16	—	459.91
KAFB-106084	4814	11/4/2020 10:03	—	462.58	WH0567	0.16	—	462.74
KAFB-106085	4857	11/4/2020 13:07	—	442.08	WH0012	0.00	—	442.08
KAFB-106086	4838	11/4/2020 12:58	—	442.46	WH0012	0.00	—	442.46
KAFB-106087	4814	11/4/2020 12:50	—	441.69	WH0012	0.00	—	441.69
KAFB-106088	4857	11/3/2020 13:30	—	449.18	WH0566	0.38	—	449.56
KAFB-106089	4838	11/4/2020 11:50	—	449.39	WH0012	0.00	—	449.39
KAFB-106090	4814	11/4/2020 11:42	—	448.26	WH0012	0.00	—	448.26
KAFB-106091	4857	11/2/2020 11:52	—	440.74	WH0012	0.00	—	440.74
KAFB-106092	4838	11/2/2020 12:04	—	441.12	WH0012	0.00	—	441.12
KAFB-106093	4814	11/2/2020 11:57	—	440.54	WH0012	0.00	—	440.54
KAFB-106094	4857	11/3/2020 12:54	—	468.82	WH0566	0.38	—	469.20
KAFB-106095	4838	11/4/2020 13:23	—	468.82	WH0012	0.00	—	468.82
KAFB-106096	4814	11/4/2020 13:28	—	469.42	WH0012	0.00	—	469.42
KAFB-106097	4838	11/4/2020 09:13	—	471.55	WH0567	0.16	—	471.71
KAFB-106098	4814	11/4/2020 09:18	—	471.68	WH0567	0.16	—	471.84
KAFB-106099	4838	11/4/2020 09:32	—	466.17	WH0567	0.16	—	466.33
KAFB-106100	4814	11/4/2020 09:36	—	466.22	WH0567	0.16	—	466.38
KAFB-106101	4838	11/3/2020 11:54	—	463.37	WH0012	0.00	—	463.37
KAFB-106102	4814	11/3/2020 11:49	—	463.48	WH0012	0.00	—	463.48
KAFB-106103	4838	11/4/2020 11:23	—	454.45	WH0012	0.00	—	454.45
KAFB-106104	4814	11/4/2020 11:28	—	453.90	WH0012	0.00	—	453.90
KAFB-106105	4838	11/3/2020 10:55	—	447.73	WH0012	0.00	—	447.73
KAFB-106106	4857	11/3/2020 11:00	—	447.62	WH0012	0.00	—	447.62
KAFB-106107	4814	11/3/2020 10:48	—	447.83	WH0012	0.00	—	447.83
KAFB-106148-484 <sup>c</sup>	4857	11/3/2020 10:48	—	467.81	253056	0.00	—	467.81
KAFB-106149-484 <sup>c</sup>	4857	11/2/2020 07:58	—	469.89	253056	0.00	—	469.89
KAFB-106150-484 <sup>c</sup>	4857	11/3/2020 11:10	467.97	468.07	253056	0.00	467.97	468.07
KAFB-106151-484 <sup>c</sup>	4857	11/3/2020 08:11	—	469.78	253056	0.00	—	469.78
KAFB-106152-484 <sup>c</sup>	4857	11/3/2020 08:38	—	471.63	253056	0.00	—	471.63
KAFB-106153-484 <sup>c</sup>	4857	11/3/2020 10:14	—	473.01	253056	0.00	—	473.01
KAFB-106154-484 <sup>c</sup>	4857	11/3/2020 09:55	471.05	471.09	253056	0.00	471.05	471.09
KAFB-106155-484 <sup>c</sup>	4857	11/3/2020 09:44	—	471.50	253056	0.00	—	471.50
KAFB-106156-484 <sup>c</sup>	4857	11/3/2020 08:00	—	464.76	253056	0.00	—	464.76
KAFB-106201	4857	11/2/2020 07:32	—	488.10	WH0012	0.00	—	488.10
KAFB-106202	4838	11/2/2020 07:29	—	488.84	WH0012	0.00	—	488.84
KAFB-106203	4814	11/2/2020 07:41	—	488.96	WH0012	0.00	—	488.96
KAFB-106204	4857	11/2/2020 08:27	—	459.94	WH0012	0.00	—	459.94
KAFB-106205	4838	11/2/2020 08:33	—	460.39	WH0012	0.00	—	460.39
KAFB-106206	4814	11/2/2020 08:40	—	460.55	WH0012	0.00	—	460.55

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KAFB-106207	4857	11/2/2020 08:16	—	472.86	WH0012	0.00	—	472.86
KAFB-106208	4838	11/2/2020 08:10	—	472.56	WH0012	0.00	—	472.56
KAFB-106209	4814	11/2/2020 08:04	—	471.87	WH0012	0.00	—	471.87
KAFB-106211 <sup>c</sup>	4857	11/4/2020	—	dry		0.00	—	NA
KAFB-106212	4814	11/4/2020 10:16	—	448.59	WH0012	0.00	—	448.59
KAFB-106213	4857	11/4/2020 10:06	—	451.44	WH0012	0.00	—	451.44
KAFB-106214	4838	11/4/2020 09:59	—	451.58	WH0012	0.00	—	451.58
KAFB-106215	4814	11/4/2020 09:50	—	451.83	WH0012	0.00	—	451.83
KAFB-106216	4857	11/2/2020 09:35	—	460.53	WH0012	0.00	—	460.53
KAFB-106217	4838	11/2/2020 09:40	—	460.45	WH0012	0.00	—	460.45
KAFB-106218	4814	11/2/2020 09:46	—	460.61	WH0012	0.00	—	460.61
KAFB-106219	4857	11/3/2020 08:17	—	467.59	WH0012	0.00	—	467.59
KAFB-106220	4838	11/3/2020 08:22	—	467.50	WH0012	0.00	—	467.50
KAFB-106221	4814	11/3/2020 08:10	—	467.25	WH0012	0.00	—	467.25
KAFB-106222	4857	11/2/2020 09:03	—	460.38	WH0012	0.00	—	460.38
KAFB-106223	4838	11/2/2020 09:09	—	461.01	WH0012	0.00	—	461.01
KAFB-106224	4814	11/2/2020 09:18	—	462.06	WH0012	0.00	—	462.06
KAFB-106225	4857	11/2/2020 10:39	—	453.25	WH0012	0.00	—	453.25
KAFB-106226	4838	11/2/2020 10:45	—	453.83	WH0012	0.00	—	453.83
KAFB-106227	4814	11/2/2020 10:52	—	454.53	WH0012	0.00	—	454.53
KAFB-106229 <sup>a,c</sup>	4857/4838	11/2/2020 12:09	—	440.89	WH0012	0.00	—	440.89
KAFB-106230	4814	11/3/2020 09:50	—	451.00	WH0012	0.00	—	451.00
KAFB-106231	4857	11/2/2020 10:40	—	453.81	WH0566	0.38	—	454.19
KAFB-106232	4814	11/2/2020 11:00	—	453.35	WH0566	0.38	—	453.73
KAFB-106235-438	4857	11/3/2020 09:07	—	441.54	WH0012	0.00	—	441.54
KAFB-106235-472	4838	11/3/2020 09:10	—	441.52	WH0012	0.00	—	441.52
KAFB-106235-501	4814	11/3/2020 09:14	—	441.60	WH0012	0.00	—	441.60
KAFB-106236-436	4857	11/3/2020 08:43	—	441.73	WH0012	0.00	—	441.73
KAFB-106236-470	4838	11/3/2020 08:48	—	441.73	WH0012	0.00	—	441.73
KAFB-106236-499	4814	11/3/2020 08:53	—	441.77	WH0012	0.00	—	441.77
KAFB-106240-449	4857	11/3/2020 09:01	—	471.46	WH0567	0.16	—	471.62
KAFB-106241-428	4857	11/2/2020 10:01	—	450.65	WH0012	0.00	—	450.65
KAFB-106242-418	4857	11/2/2020 12:03	—	440.61	WH0566	0.38	—	440.99
KAFB-106243-425	4857	11/4/2020 11:59	—	445.95	WH0012	0.00	—	445.95
KAFB-106244-445	4857	11/4/2020 09:45	—	466.92	WH0567	0.16	—	467.08
KAFB-106245-460	4857	11/4/2020 08:31	—	485.78	WH0012	0.00	—	485.78
KAFB-106247-450	4857	11/3/2020 10:35	—	475.35	WH0567	0.16	—	475.51
KAFB-106S1-447	4857	11/3/2020 10:34	—	468.89	253056	0.00	—	468.89
KAFB-106S2-451	4857	11/3/2020 08:28	—	476.39	253056	0.00	—	476.39
KAFB-106S3-449	4857	11/3/2020 11:42	—	475.56	253056	0.00	—	475.56
KAFB-106S4-446	4857	11/4/2020 07:47	—	470.45	WH0012	0.00	—	470.45
KAFB-106S5-446	4857	11/2/2020 13:35	—	467.90	253056	0.00	—	467.90
KAFB-106S7-451	4857	11/2/2020 13:15	—	473.29	253056	0.00	—	473.29
KAFB-106S8-451	4857	11/3/2020 10:26	—	475.30	253056	0.00	—	475.30
KAFB-106S9-447	4857	11/3/2020 11:22	—	469.94	253056	0.00	—	469.94
KAFB-2629	NA	11/2/2020 14:10	—	487.81	WH0567	0.16	—	487.97
KAFB-3392	NA	11/2/2020 08:00	—	521.66	WH0567	0.16	—	521.82
KAFB-3411	4857	11/4/2020 07:57	—	467.02	WH0012	0.00	—	467.02
KAFB-8281	NA	11/2/2020 07:47	—	526.65	WH0567	0.16	—	526.81
KAFB-8351	NA	11/2/2020 08:30	—	445.72	WH0567	0.16	—	445.88
Montessa Park (3)	NA	11/3/2020 09:36	—	214.41	WH0567	0.16	—	214.57
SO-1F	NA	11/3/2020 08:20	—	478.95	WH0567	0.16	—	479.11
TA1-W-02	NA	11/3/2020 13:16	—	517.58	Transducer	0.00	—	517.58
TA1-W-05-13:25	NA	11/3/2020 13:25	—	556.33	Transducer	0.00	—	556.33
TJA-6	NA	11/3/2020 14:32	—	450.88	Transducer	0.00	—	450.88
TR-1A	NA	11/3/2020 07:41	—	464.65	WH0567	0.16	—	464.81

<sup>a</sup> Well used in analyses for both REI 4857 and 4838.

<sup>b</sup> Well was not gauged due to presence of monitoring equipment.

<sup>c</sup> Well not permanently designated in REI listed.

AMSL = above mean sea level

ft = foot/feet

ID = identification

NA = not applicable

LNAPL = light non-aqueous phase liquid

MRP = measurement reference point

REI = reference elevation interval

— = LNAPL not detected