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By PSTB at 2:09 pm, May 17, 2022

May 17, 2022

Mr. Corey Jarrett
Geoscientist/Project Manager
Remedial Action Program
New Mexico Environment Department
Petroleum Storage Tank Bureau
121 Tijeras Ave NE, Suite 1000
Albuquerque, NM 87102

**Pre-Injection Groundwater Monitoring Report
Atex 213, 3501 Isleta Boulevard, SW, Albuquerque, NM
Release ID #: 28 Facility #: 31815 Deliverable ID 4264-1
Contract #: 22 667 3200 0011**

Dear Mr. Jarrett:

EA Engineering, Science, and Technology, Inc. PBC (EA) has prepared this Pre-Injection Groundwater Monitoring Report to report activities performed on April 6, 2022, at Atex 213 located at 3501 Isleta Boulevard, SW, Albuquerque, New Mexico (Figure 1). Activities were performed under State of New Mexico Environment Department Professional Services Contact No. 22 667 3200 0011.

BACKGROUND

A summary of the site background is provided below:

- Atex Gas, Inc. was owned and operated by Bell Station 213. In 1981, inventory records indicated that approximately 43,000 gallons of unleaded gasoline were released.
- In June 2021, benzene groundwater concentrations exceeded the standard in NMW-1 (56 micrograms per liter [$\mu\text{g/L}$]), RNMW-2 (13 $\mu\text{g/L}$), and total naphthalene concentration exceeded the standard in MW-1R (37 $\mu\text{g/L}$).
- Groundwater in the area of concern was encountered at approximately 9-10 feet below the ground surface. Groundwater flow direction is to the south-southeast at a 0.001 foot per foot gradient.
- Soil in the vadose and saturated zones consists primarily of poorly to well-graded fine to coarse sands, some silty sand near the surface, and lenses of silt/clay.

SCOPE AND EXECUTION

On April 6, 2022, EA personnel completed the following scope of work for the pre-injection (baseline) groundwater monitoring:

- Gauged eight (8) monitoring wells (MW-1R, NMW-1, RNW-2, RNW-3, MW-4R,

NMW-4R, MW-6RR, and MW-38).

- Before sampling, purging was performed using dedicated, clean, disposable bailers and twine. Approximately three casing volumes were purged before sample collection. During purging, dissolved oxygen (DO), oxygen-reduction potential (ORP), pH, temperature, and specific conductivity were measured using a calibrated water quality meter (Appendix A).
- Collected groundwater samples from eight (8) wells MW-1R, NMW-1, RNW-2, RNW-3, MW-4R, NMW-4R, MW-6RR, and MW-38). Samples were collected in clean sealed containers supplied by Hall Environmental Analysis Laboratory (HEAL), labeled, placed in protective pockets and into coolers packed with ice, entered onto a chain of custody, and delivered to HEAL under direct custody.
- Submitted groundwater samples to Hall Environmental Analysis Laboratory where samples were analyzed for volatile organic compounds (VOCs), including total naphthalenes, by the United States Environmental Protection Agency (EPA) Method 8260B and sulfate and nitrate by EPA Method 300. In addition, a sample from RNMW-3 was analyzed for Total Dissolved Solids (TDS) by SM 2540C (Appendix B).
- Prepared and submitted this one-page analytical summary and provided the laboratory report.

RESULTS

Provided below is a summary of field data:

Table 1. A Summary of Field Data								
Well ID	Depth to Water	Well Casing Elevation	Ground Water Elevation	Temperature	Specific Conductance	pH	Oxidation-Reduction Potential	Dissolved Oxygen
	<i>feet bTOC</i>	<i>feet AMSL</i>	<i>feet AMSL</i>	<i>degrees Celsius</i>	<i>micro Siemens per centimeter</i>	<i>units</i>	<i>millivolts</i>	<i>micrograms per liter</i>
MW-1R	9.27	4,932.08	4,922.81	18.44	1,786	7.16	-117	1.98
MW-38	9.06	4,931.87	4,922.81	17.63	1,633	6.86	-81	1.17
MW-4R	10.68	4,933.42	4,922.74	19.44	1,418	7.21	-116	1.06
MW-6RR	11.01	4,933.90	4,922.89	18.74	1,207	7.26	21	1.77
NMW-1	9.72	4,932.63	4,922.91	18.21	2,006	6.75	-135	0.82
NMW-4R	10.03	4,932.53	4,922.50	19.16	1,307	7.03	-54	1.05
RNMW-2	10.62	4,933.45	4,922.83	18.88	1,709	6.86	-71	0.83
RNMW-3	10.38	4,933.22	4,922.84	19.03	1,667	2.02	-63	1.02
Average	10.10	4,932.89	4,922.79	18.69	1,592	6.39	-77	1.21
bTOC	below top of casing							
AMSL	above mean sea level							

- The average depth to water was 10.10 feet below the top of the well casing and the corresponding groundwater elevation was 4,922.79 feet above the mean sea level. The groundwater flow direction was to the south at a gradient of 0.0013 (Figure 2).
- The average groundwater temperature was 18.69 degrees Celsius.
- The average specific conductance was 1,592 micro Siemens per centimeter.
- The average pH was 6.39 pH units.
- The average ORP was – 77 millivolts.
- The average DO was 1.21 micrograms per liter.

Provided below is a summary of analytical results:

Table 2. A Summary of Recent Laboratory Analytical Results										
Well Number	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Naphthalenes	Nitrate	Sulfate	Total Dissolved Solids
<i>Standard</i>		<i>5</i>	<i>1000</i>	<i>700</i>	<i>620</i>	<i>100</i>	<i>30</i>	<i>10</i>	<i>600</i>	<i>1,000</i>
MW-1R	4/6/2021	<1.0	<1.0	<1.0	<1.5	<1.0	4.3	<0.50	200	
MW-1R	6/17/2021	<1.0	<1.0	2.2	<1.5	<1.0	36.6			
MW-1R	10/10/2019	<1.0	<1.0	1.5	<1.5	<1.0	13			
MW-1R	1/17/2017	<2.0	<2.0	<2.0	<3.0	<2.0	<8.0			
MW-38	4/6/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.50	130	
MW-38	6/17/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0			
MW-38	10/10/2019	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0			
MW-38	12/20/2017	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0			
MW-38	1/17/2017	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0			
MW-4R	4/6/2022	<1.0	<1.0	<1.0	<1.5	1.7	<10	<0.50	100	
MW-4R	6/17/2021	<1.0	<1.0	<1.0	<1.5	1.3	<4.0			
MW-4R	10/10/2019	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0			
MW-4R	12/20/2017	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0			
MW-4R	1/17/2017	<1.0	<1.0	<1.0	<1.5	7.0	<4.0			
MW-6RR	4/6/2022	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.50	95	
MW-6RR	6/17/2021	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0			
MW-6RR	10/10/2019	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0			
MW-6RR	12/20/2017	3.4	<1.0	<1.0	<1.5	1.5	7.2			
MW-6RR	1/17/2017	<1.0	<1.0	<1.0	<1.5	<1.0	4.3			
NMW-1	4/6/2022	32	<1.0	1.4	3.4	4.5	8.4	<0.50	200	
NMW-1	6/17/2021	56	<1.0	3.1	<1.5	11	14			
NMW-1	10/10/2019	84	1.0	3.6	13	12	21.7			
NMW-1	12/20/2017	79	1.0	3.0	4.7	11	23.3			
NMW-1	1/17/2017	220	<5.0	47	32	16	59			
NMW-4R	4/6/2022	<1.0	<1.0	<1.0	<1.5	1.9	<10	<0.50	91	
NMW-4R	6/17/2021	<1.0	<1.0	<1.0	<1.5	3.1	<4.0			
NMW-4R	10/10/2019	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0			
NMW-4R	12/20/2017	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0			
NMW-4R	1/17/2017	<1.0	<1.0	<1.0	<1.5	2.0	<4.0			
RNMW-2	4/6/2022	44	<2.0	<2.0	<3.0	51	13	<0.50	68	
RNMW-2	6/17/2021	13	<2.0	<2.0	<3.0	44	<8.0			
RNMW-2	10/10/2019	120	1.9	3.4	2.8	110	80.2			
RNMW-2	12/20/2017	<1.0	<1.0	<1.0	<1.5	18	<4.0			
RNMW-2	1/17/2017	<1.0	<1.0	<1.0	<1.5	23	<4.0			
RNMW-3	4/6/2022	<1.0	<1.0	<1.0	<1.5	5.5	<10	<0.10	100	586
RNMW-3	6/17/2021	<1.0	<1.0	<1.0	<1.5	11	<4.0			
RNMW-3	10/10/2019	1.5	<1.0	<1.0	<1.5	30	9.6			
RNMW-3	12/20/2017	2.0	<1.0	<1.0	<1.5	61	10			
RNMW-3	1/17/2017	1.3	<1.0	<1.0	<1.5	64	10			

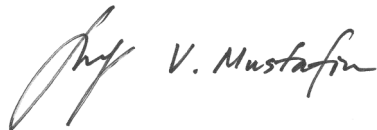
Empty cells indicate that analysis was not conducted
Bold values indicate concentrations above the laboratory limits
Red Bold values indicated concentrations above the standards
 Standards are New Mexico Administrative Code 20.6.2.3103
 "Standards for Ground Water of 10,000 mg/L TDS Concentration or less"
 Concentrations are in micrograms per liter
 Volatile Organic Compounds were analyzed using EPA Method 8260B. Sulfate and Nitrate were analyzed by EPA Method 300

- During this event, concentrations of benzene exceeded the standard of 5 micrograms per liter ($\mu\text{g/L}$) in NMW-1 (32 $\mu\text{g/L}$) and RMNW-2 (44 $\mu\text{g/L}$) (Figure 3).
- Concentrations of toluene, ethylbenzene, xylenes, and total naphthalene were below the standards.
- Concentrations of nitrate were below detection limits and standards.
- Sulfate concentrations varied between 68 milligrams per liter (mg/L) and 200 mg/L and were below the standard of 600 mg/L.
- Total dissolved solids concentration in RMNW-3 was 586 mg/L.

Please feel free to contact me at (505) 296-1070 or vmustafin@eaest.com if you have questions or comments.

Sincerely,

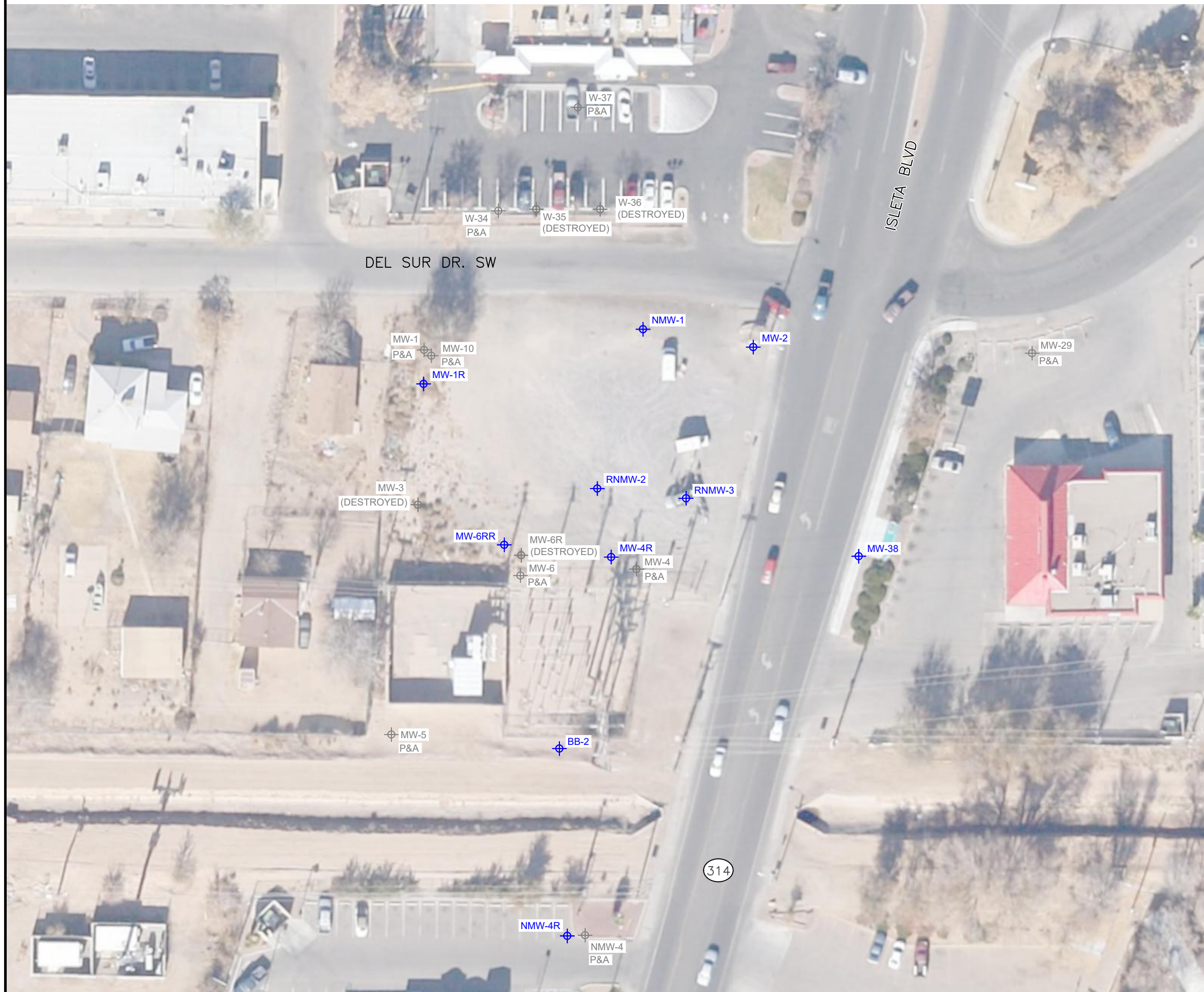
EA Engineering, Science, and Technology, Inc., PBC



Vener Mustafin, P.E.
Project Manager/Engineer

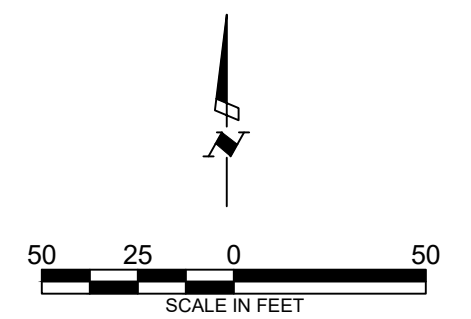
Figure 1	Site Layout
Figure 2	Groundwater Contour Map – April 6, 2022
Figure 3	Volatile Organic Compounds – April 6, 2022
Attachment A	Field Records
Attachment B	Laboratory Report

FIGURES



LEGEND:

- ⊕ MW-2 MONITORING WELL
- ⊕ MW-6 P&A MONITORING WELL PLUGGED AND ABANDONED



ATEX 213
ALBUQUERQUE, NEW MEXICO

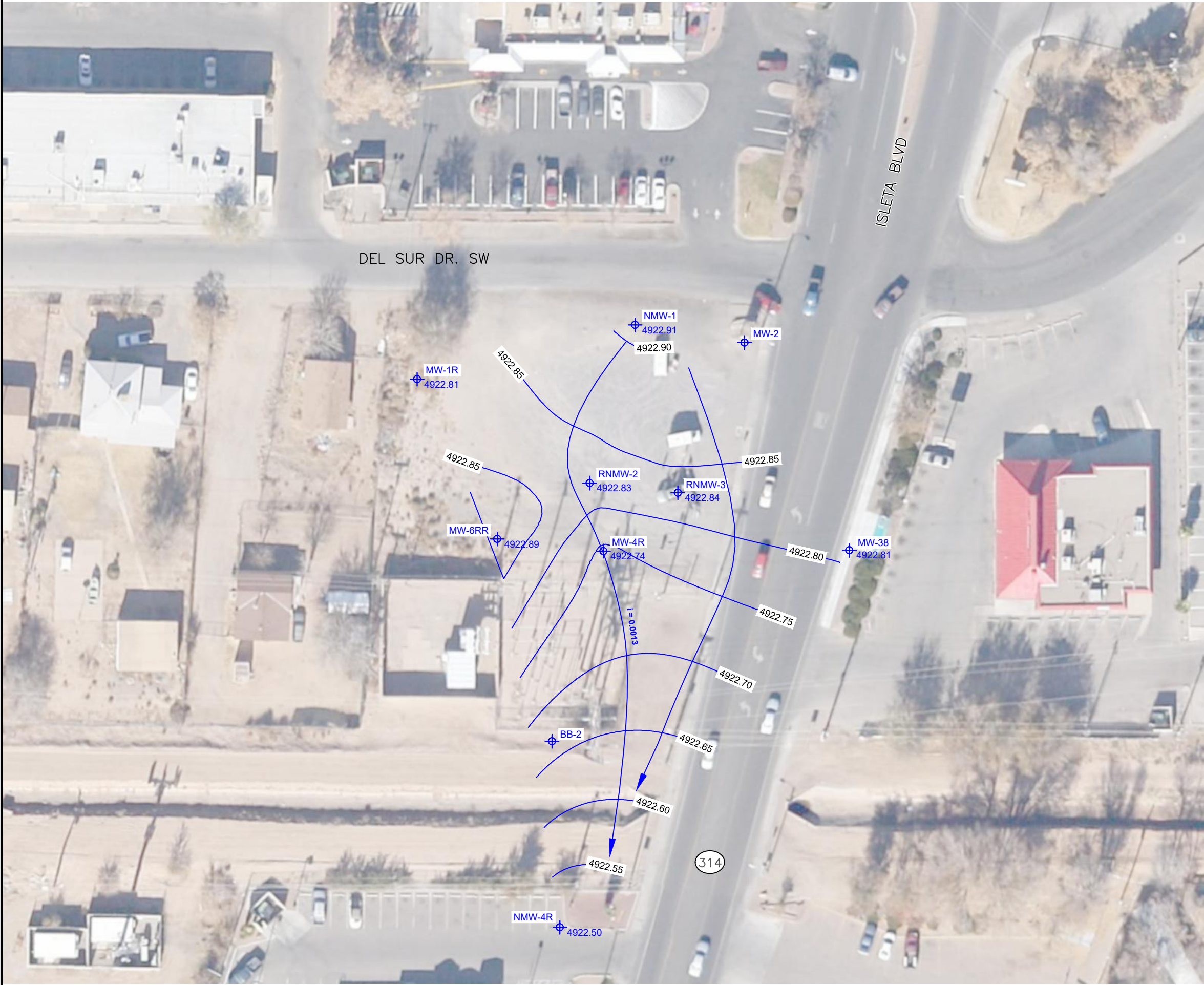
**FIGURE 1
SITE MAP**

PROJECT #:	6332224	PROJECT PHASE:	01	PROJECT MANAGER:	LA
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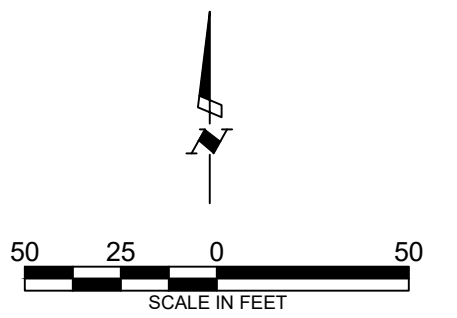
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LEGEND:

-  MW-2 MONITORING WELL
-  4922.50 GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
-  GROUNDWATER FLOW DIRECTION



ATEX 213
ALBUQUERQUE, NEW MEXICO

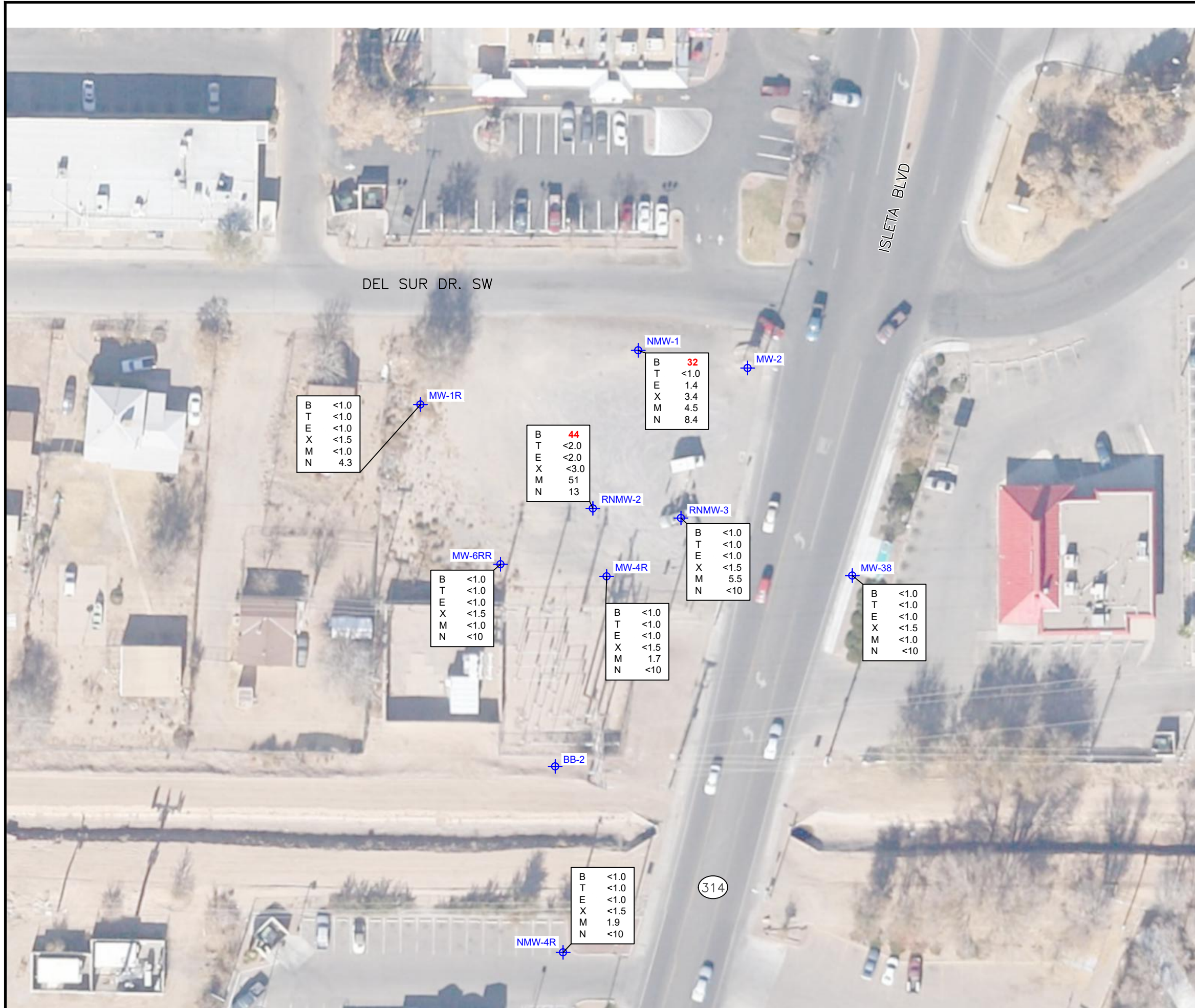
FIGURE 2
GROUNDWATER CONTOUR MAP
APRIL 6, 2022

PROJECT #:	6332224	PROJECT PHASE:	01	PROJECT MANAGER:	LA
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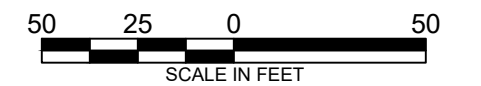


LEGEND:

MW-2 MONITORING WELL

B BENZENE
 T TOLUENE
 E ETHYLBENZENE
 X TOTAL XYLENES
 M METHYL TERTIARY BUTYL ETHER
 N TOTAL NAPHTHALENES

CONCENTRATIONS ARE IN MICROGRAMS PER LITER



ATEX 213
ALBUQUERQUE, NEW MEXICO

FIGURE 3
VOLATILE ORGANIC COMPOUNDS
APRIL 6, 2022

PROJECT #: 6332224 PROJECT PHASE: 01 PROJECT MANAGER: LA



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ATTACHMENT A
FIELD RECORDS



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID MW-1R
 Site AT&T 213
 Depth to PSH Feet
 Depth to water 9.27 Feet
 Total depth 14.83 Feet
 NAPL thickness Feet

Date gauged 4-6-22
 Time gauged 1447
 Well diameter 2 Inches
 Height of fluid column 5.61 Feet
 Volume in well 0.95 Gallons

(3 well volumes = 2.86 gallons)

2H 4-6-22
1447

After Bailing NAPL

Depth to PSH Feet
 Depth to water Feet
 NAPL thickness 4-6-22 Feet
 NAPL Recovered Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1449 / 4-6-22 Purge Method Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>1449</u>	<u>0.25</u>	<u>18.89</u>	<u>176</u>	<u>7.18</u>	<u>-77.2</u>	<u>1.98</u>
<u>1452</u>	<u>1.5</u>	<u>18.70</u>	<u>1782</u>	<u>7.21</u>	<u>-109.0</u>	<u>2.22</u>
<u>1454</u>	<u>3.00</u>	<u>18.44</u>	<u>1786</u>	<u>7.16</u>	<u>-116.7</u>	<u>1.92</u>
<u>Hand Bail 4-6-22</u>						

Actual purge volume 3.25 gal. Field measurements stabilized within ± 10%? NO, 3 well volumes

Time/date sampled 1455 / 4-6-22 Purged/sampled by Aluppa

Sample method Hand bailor & filter

Requested analyses 8200, Nitrate/Sulfate

Comments/observations

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID NW-42 Date gauged 4-6-22
 Site Atex 213 Time gauged 1532
 Depth to PSH Feet Well diameter 2 Inches
 Depth to water 10.08 Feet Height of fluid column 10.92 Feet
 Total depth 21.1 Feet Volume in well 1.77 Gallons
 NAPL thickness Feet
 (3 well volumes = 5.31 gallons)

After Bailing NAPL

Depth to PSH Feet
 Depth to water Feet
 NAPL thickness 4-6-22 Feet
 NAPL Recovered Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1536 / 4-6-22 Purge Method Hard Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1536	0.25	19.72	1426	7.20	-117.6	1.06
1540	2.75	19.56	1416	7.19	-103.7	1.21
1543	5.50	19.94	1418	7.21	-77.6	2.05

Actual purge volume 5.75 gal. Field measurements stabilized within ± 10%? No, 3 well volumes
 Time/date sampled 1545 / 4-6-22 Purged/sampled by Alupra
 Sample method Now bailer + jumbo
 Requested analyses 8260, Nitrate / sulfate
 Comments/observations _____

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID MW-688 Date gauged 4-6-22
 Site AT&T 213 Time gauged 1418
 Depth to PSH _____ Feet Well diameter 2 Inches
 Depth to water 16.09 Feet Height of fluid column 8.91 Feet
 Total depth 10.00 Feet Volume in well 1.51 Gallons
 NAPL thickness _____ Feet
 (3 well volumes = 4.54 gallons)

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water NA Feet

NAPL thickness 4-6-22 Feet

NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1421 / 4-6-22 Purge Method Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1421	0.25	20.58	1240	7.11	25	1.27
1425	2.25	19.50	1298	7.10	35.8	1.89
1428	4.85	19.79	1207	7.20	20.5	1.90
<u>NA 4-6-22</u>						

Actual purge volume 9.75 gal Field measurements stabilized within ± 10%? No 3 test volumes
 Time/date sampled 1430 / 4-6-22 Purged/sampled by Amppu
 Sample method Now bailer + Jumbo
 Requested analyses 820002, Sulfate Nitrate
 Comments/observations _____



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID MW-38 Date gauged 4-6-22
 Site Afox 213 Time gauged 1715
 Depth to PSH — Feet Well diameter 2 Inches
 Depth to water 9.06 Feet Height of fluid column 3.12 Feet
 Total depth 12.18 Feet Volume in well 0.53 Gallons
 NAPL thickness — Feet
 (3 well volumes = 1.59 gallons)

After Bailing NAPL

Depth to PSH — Feet
 Depth to water — Feet
 NAPL thickness — Feet
 NAPL Recovered — Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1718 / 4-6-22 Purge Method Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1718	0.25	18.37	1507	6.91	-15.8	1.62
1720	0.75	17.67	1595	6.86	-9.8	1.52
1722	1.75	17.63	1633	6.86	-8.3	1.83
<u>All</u>						
<u>4-6-22</u>						

Actual purge volume 2.0 gal. Field measurements stabilized within ± 10%? NO, 3 well volumes
 Time/date sampled 1725 / 4-6-22 Purged/sampled by [Signature]
 Sample method New bailer & pump
 Requested analyses 8200, Nitrate/Sulphate
 Comments/observations _____



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID NM W-42 Date gauged 4-6-22
 Site Atex 213 Time gauged 1650
 Depth to PSH Feet Well diameter 2 Inches
 Depth to water 16.05 Feet Height of fluid column 9.87 Feet
 Total depth 14.02 Feet Volume in well 1.68 Gallons
 NAPL thickness Feet
 (3 well volumes = 5.03 gallons)

After Bailing NAPL

Depth to PSH Feet
 Depth to water Feet
 NAPL thickness 4-6-22 Feet
 NAPL Recovered Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1653 / 4-6-22 Purge Method Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1653	0.25	19.58	1320	7.21	-60.4	1.05
1656	2.5	19.18	1303	7.10	-63.1	1.67
1700	9.25	19.16	1307	7.05	-53.8	1.71
AK 4-6-22						

Actual purge volume 5.90 gal. Field measurements stabilized within ± 10%? No, 3 well volumes

Time/date sampled 1705 / 4-6-22 Purged/sampled by Allyson

Sample method New Vendor & Hwms

Requested analyses 8200, sulphate/nitrate

Comments/observations

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID Rpmw-2 Date gauged 4-6-22
 Site Atox 213 Time gauged 1555

Depth to PSH — Feet Well diameter 2 Inches
 Depth to water 10.62 Feet Height of fluid column 4.05 Feet
 Total depth 15.57 Feet Volume in well 0.89 Gallons
 NAPL thickness — Feet

(3 well volumes = 2.52 gallons)

After Bailing NAPL

Depth to PSH — Feet
 Depth to water — Feet
 NAPL thickness 4-6-22 Feet
 NAPL Recovered — Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1558 / 4-6-22 Purge Method Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1558	0.25	18.16	1718	6.93	-50.1	0.83
1601	1.25	19.05	1733	6.85	-71.5	1.35
1605	2.75	18.88	1709	6.86	-71.0	1.49

Actual purge volume 3.00 gal. Field measurements stabilized within ± 10%? No, 3 well volumes

Time/date sampled 1605 / 4-6-22 Purged/sampled by A. Koppa

Sample method near bailer + twins

Requested analyses SR00, Nitrate / Sulfate

Comments/observations _____

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID RNMW-3 Date gauged 4-6-22
 Site AT&T 213 Time gauged 1618
 Depth to PSH Feet Well diameter 2 Inches
 Depth to water 10.38 Feet Height of fluid column 5.66 Feet
 Total depth 15.04 ~~16.04~~ Feet Volume in well 0.96 Gallons
 NAPL thickness Feet
 (3 well volumes = 2.88 gallons)

After Bailing NAPL

Depth to PSH Feet
 Depth to water Feet
 NAPL thickness 4-6-22 Feet
 NAPL Recovered Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1623 / 4-6-22 Purge Method Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1623	0.25	18.22	1780	7.02	95.9	1.02
1625	1.5	18.27	1733	7.06	108.5	1.60
1627	3.0	19.03	1667	7.02	103.0	1.08

Actual purge volume 3.25 gal. Field measurements stabilized within ± 10%? NO, 3 well volumes
 Time/date sampled 1630 / 4-6-22 Purged/sampled by Allyson
 Sample method New bailer + torch
 Requested analyses 8260, Nitrate (sulfate), TDS
 Comments/observations

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID NMW-1 Date gauged 4-6-22
 Site ATGX 213 Time gauged 1509
 Depth to PSH — Feet Well diameter 2 Inches
 Depth to water 9.72 Feet Height of fluid column 5.35 Feet
 Total depth 15.07 Feet Volume in well 0.91 Gallons
 NAPL thickness — Feet
 (3 well volumes = 2.72 gallons)

After Bailing NAPL

Depth to PSH — Feet
 Depth to water — Feet
 NAPL thickness — Feet
 NAPL Recovered — Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1512 / 4-6-22 Purge Method Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1512	0.25	18.7	2064	6.78	-124.5	0.82
1515	0.5	18.13	2055	6.74	-134.3	1.30
1517	2.75	18.21	2046	6.75	-135	1.58

Actual purge volume 3.00 gal. Field measurements stabilized within ± 10%? NO, 3 wash volumes
 Time/date sampled 1520 / 4-6-22 Purged/sampled by AKUPPW
 Sample method New bailer + funnel
 Requested analyses 826C, Nitrate / sulfate
 Comments/observations _____



Gauging
MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID _____ Date gauged _____
 Site _____ Time gauged _____

Depth to PSH _____ Feet Well diameter _____ Inches
 Depth to water _____ Feet Height of fluid column _____ Feet
 Total depth _____ Feet Volume in well _____ Gallons
 NAPL thickness _____ Feet

(3 well volumes = _____ gallons)

After Bailing NAPL

Depth to PSH _____ Feet
 Depth to water _____ Feet
 NAPL thickness _____ Feet
 NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Gauged
 Time/date purged 4-6-22 Purge Method _____

Well	Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
MW-38		9.06					
NMW-4R		10.05					
RNMW-3		10.38					
RNMW-2		10.62					
MW-4R		10.68					
NMW-1		9.72					
MW-1R		9.27					
MW-6RR		11.01					

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by _____

Sample method _____

Requested analyses _____

Comments/observations _____

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

ATTACHMENT B
LABORATORY REPORT



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 18, 2022

Vener Mustafin
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: ATEX 213

OrderNo.: 2204365

Dear Vener Mustafin:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/7/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: MW-38

Project: ATEX 213

Collection Date: 4/6/2022 5:25:00 PM

Lab ID: 2204365-001

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	4/7/2022 7:17:42 PM
Sulfate	130	2.5		mg/L	5	4/7/2022 7:17:42 PM
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Toluene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Ethylbenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Naphthalene	ND	2.0		µg/L	1	4/15/2022 5:49:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 5:49:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 5:49:00 AM
Acetone	ND	10		µg/L	1	4/15/2022 5:49:00 AM
Bromobenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Bromoform	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Bromomethane	ND	3.0		µg/L	1	4/15/2022 5:49:00 AM
2-Butanone	ND	10		µg/L	1	4/15/2022 5:49:00 AM
Carbon disulfide	ND	10		µg/L	1	4/15/2022 5:49:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Chlorobenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Chloroethane	ND	2.0		µg/L	1	4/15/2022 5:49:00 AM
Chloroform	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Chloromethane	ND	3.0		µg/L	1	4/15/2022 5:49:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/15/2022 5:49:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Dibromomethane	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: MW-38

Project: ATEX 213

Collection Date: 4/6/2022 5:25:00 PM

Lab ID: 2204365-001

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/15/2022 5:49:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
2-Hexanone	ND	10		µg/L	1	4/15/2022 5:49:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/15/2022 5:49:00 AM
Methylene Chloride	ND	3.0		µg/L	1	4/15/2022 5:49:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	4/15/2022 5:49:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Styrene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/15/2022 5:49:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/15/2022 5:49:00 AM
Vinyl chloride	ND	1.0		µg/L	1	4/15/2022 5:49:00 AM
Xylenes, Total	ND	1.5		µg/L	1	4/15/2022 5:49:00 AM
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	4/15/2022 5:49:00 AM
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	4/15/2022 5:49:00 AM
Surr: Dibromofluoromethane	100	70-130		%Rec	1	4/15/2022 5:49:00 AM
Surr: Toluene-d8	94.8	70-130		%Rec	1	4/15/2022 5:49:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: NMW-4R

Project: ATEX 213

Collection Date: 4/6/2022 5:05:00 PM

Lab ID: 2204365-002

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	4/7/2022 7:43:26 PM
Sulfate	91	2.5		mg/L	5	4/7/2022 7:43:26 PM
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Toluene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Ethylbenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Methyl tert-butyl ether (MTBE)	1.9	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Naphthalene	ND	2.0		µg/L	1	4/15/2022 6:12:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 6:12:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 6:12:00 AM
Acetone	ND	10		µg/L	1	4/15/2022 6:12:00 AM
Bromobenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Bromoform	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Bromomethane	ND	3.0		µg/L	1	4/15/2022 6:12:00 AM
2-Butanone	ND	10		µg/L	1	4/15/2022 6:12:00 AM
Carbon disulfide	ND	10		µg/L	1	4/15/2022 6:12:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Chlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Chloroethane	ND	2.0		µg/L	1	4/15/2022 6:12:00 AM
Chloroform	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Chloromethane	ND	3.0		µg/L	1	4/15/2022 6:12:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/15/2022 6:12:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Dibromomethane	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: NMW-4R

Project: ATEX 213

Collection Date: 4/6/2022 5:05:00 PM

Lab ID: 2204365-002

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/15/2022 6:12:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
2-Hexanone	ND	10		µg/L	1	4/15/2022 6:12:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/15/2022 6:12:00 AM
Methylene Chloride	ND	3.0		µg/L	1	4/15/2022 6:12:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	4/15/2022 6:12:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Styrene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/15/2022 6:12:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/15/2022 6:12:00 AM
Vinyl chloride	ND	1.0		µg/L	1	4/15/2022 6:12:00 AM
Xylenes, Total	ND	1.5		µg/L	1	4/15/2022 6:12:00 AM
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	1	4/15/2022 6:12:00 AM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	4/15/2022 6:12:00 AM
Surr: Dibromofluoromethane	99.0	70-130		%Rec	1	4/15/2022 6:12:00 AM
Surr: Toluene-d8	95.3	70-130		%Rec	1	4/15/2022 6:12:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: RNMW-3

Project: ATEX 213

Collection Date: 4/6/2022 4:30:00 PM

Lab ID: 2204365-003

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	4/8/2022 2:45:17 PM
Sulfate	100	10		mg/L	20	4/8/2022 3:23:53 PM
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Toluene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Ethylbenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Methyl tert-butyl ether (MTBE)	5.5	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Naphthalene	ND	2.0		µg/L	1	4/15/2022 6:35:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 6:35:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 6:35:00 AM
Acetone	ND	10		µg/L	1	4/15/2022 6:35:00 AM
Bromobenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Bromoform	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Bromomethane	ND	3.0		µg/L	1	4/15/2022 6:35:00 AM
2-Butanone	ND	10		µg/L	1	4/15/2022 6:35:00 AM
Carbon disulfide	ND	10		µg/L	1	4/15/2022 6:35:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Chlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Chloroethane	ND	2.0		µg/L	1	4/15/2022 6:35:00 AM
Chloroform	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Chloromethane	ND	3.0		µg/L	1	4/15/2022 6:35:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/15/2022 6:35:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Dibromomethane	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: RNMW-3

Project: ATEX 213

Collection Date: 4/6/2022 4:30:00 PM

Lab ID: 2204365-003

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/15/2022 6:35:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
2-Hexanone	ND	10		µg/L	1	4/15/2022 6:35:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/15/2022 6:35:00 AM
Methylene Chloride	ND	3.0		µg/L	1	4/15/2022 6:35:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	4/15/2022 6:35:00 AM
n-Propylbenzene	1.1	1.0		µg/L	1	4/15/2022 6:35:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Styrene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/15/2022 6:35:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/15/2022 6:35:00 AM
Vinyl chloride	ND	1.0		µg/L	1	4/15/2022 6:35:00 AM
Xylenes, Total	ND	1.5		µg/L	1	4/15/2022 6:35:00 AM
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%Rec	1	4/15/2022 6:35:00 AM
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	4/15/2022 6:35:00 AM
Surr: Dibromofluoromethane	98.4	70-130		%Rec	1	4/15/2022 6:35:00 AM
Surr: Toluene-d8	97.8	70-130		%Rec	1	4/15/2022 6:35:00 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	586	20.0	*	mg/L	1	4/14/2022 6:49:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Estimated value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix interference	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: RNMW-2

Project: ATEX 213

Collection Date: 4/6/2022 4:05:00 PM

Lab ID: 2204365-004

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	4/7/2022 9:26:29 PM
Sulfate	68	2.5		mg/L	5	4/7/2022 9:26:29 PM
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	44	2.0		µg/L	2	4/15/2022 6:58:00 AM
Toluene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Ethylbenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Methyl tert-butyl ether (MTBE)	51	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Naphthalene	13	4.0		µg/L	2	4/15/2022 6:58:00 AM
1-Methylnaphthalene	ND	8.0		µg/L	2	4/15/2022 6:58:00 AM
2-Methylnaphthalene	ND	8.0		µg/L	2	4/15/2022 6:58:00 AM
Acetone	ND	20		µg/L	2	4/15/2022 6:58:00 AM
Bromobenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Bromodichloromethane	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Bromoform	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Bromomethane	ND	6.0		µg/L	2	4/15/2022 6:58:00 AM
2-Butanone	ND	20		µg/L	2	4/15/2022 6:58:00 AM
Carbon disulfide	ND	20		µg/L	2	4/15/2022 6:58:00 AM
Carbon Tetrachloride	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Chlorobenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Chloroethane	ND	4.0		µg/L	2	4/15/2022 6:58:00 AM
Chloroform	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Chloromethane	ND	6.0		µg/L	2	4/15/2022 6:58:00 AM
2-Chlorotoluene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
4-Chlorotoluene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
cis-1,2-DCE	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	4/15/2022 6:58:00 AM
Dibromochloromethane	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Dibromomethane	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Dichlorodifluoromethane	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,1-Dichloroethene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: RNMW-2

Project: ATEX 213

Collection Date: 4/6/2022 4:05:00 PM

Lab ID: 2204365-004

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,2-Dichloropropane	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
2,2-Dichloropropane	ND	4.0		µg/L	2	4/15/2022 6:58:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
2-Hexanone	ND	20		µg/L	2	4/15/2022 6:58:00 AM
Isopropylbenzene	14	2.0		µg/L	2	4/15/2022 6:58:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
4-Methyl-2-pentanone	ND	20		µg/L	2	4/15/2022 6:58:00 AM
Methylene Chloride	ND	6.0		µg/L	2	4/15/2022 6:58:00 AM
n-Butylbenzene	ND	6.0		µg/L	2	4/15/2022 6:58:00 AM
n-Propylbenzene	28	2.0		µg/L	2	4/15/2022 6:58:00 AM
sec-Butylbenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Styrene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
tert-Butylbenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	4/15/2022 6:58:00 AM
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
trans-1,2-DCE	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Trichloroethene (TCE)	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
1,2,3-Trichloropropane	ND	4.0		µg/L	2	4/15/2022 6:58:00 AM
Vinyl chloride	ND	2.0		µg/L	2	4/15/2022 6:58:00 AM
Xylenes, Total	ND	3.0		µg/L	2	4/15/2022 6:58:00 AM
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%Rec	2	4/15/2022 6:58:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	2	4/15/2022 6:58:00 AM
Surr: Dibromofluoromethane	93.1	70-130		%Rec	2	4/15/2022 6:58:00 AM
Surr: Toluene-d8	97.8	70-130		%Rec	2	4/15/2022 6:58:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: MW-4R

Project: ATEX 213

Collection Date: 4/6/2022 3:45:00 PM

Lab ID: 2204365-005

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	4/7/2022 9:52:12 PM
Sulfate	100	2.5		mg/L	5	4/7/2022 9:52:12 PM
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Toluene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Ethylbenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Methyl tert-butyl ether (MTBE)	1.7	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Naphthalene	ND	2.0		µg/L	1	4/15/2022 7:21:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 7:21:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 7:21:00 AM
Acetone	ND	10		µg/L	1	4/15/2022 7:21:00 AM
Bromobenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Bromoform	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Bromomethane	ND	3.0		µg/L	1	4/15/2022 7:21:00 AM
2-Butanone	ND	10		µg/L	1	4/15/2022 7:21:00 AM
Carbon disulfide	ND	10		µg/L	1	4/15/2022 7:21:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Chlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Chloroethane	ND	2.0		µg/L	1	4/15/2022 7:21:00 AM
Chloroform	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Chloromethane	ND	3.0		µg/L	1	4/15/2022 7:21:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/15/2022 7:21:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Dibromomethane	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: MW-4R

Project: ATEX 213

Collection Date: 4/6/2022 3:45:00 PM

Lab ID: 2204365-005

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/15/2022 7:21:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
2-Hexanone	ND	10		µg/L	1	4/15/2022 7:21:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/15/2022 7:21:00 AM
Methylene Chloride	ND	3.0		µg/L	1	4/15/2022 7:21:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	4/15/2022 7:21:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Styrene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/15/2022 7:21:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/15/2022 7:21:00 AM
Vinyl chloride	ND	1.0		µg/L	1	4/15/2022 7:21:00 AM
Xylenes, Total	ND	1.5		µg/L	1	4/15/2022 7:21:00 AM
Surr: 1,2-Dichloroethane-d4	96.2	70-130		%Rec	1	4/15/2022 7:21:00 AM
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	4/15/2022 7:21:00 AM
Surr: Dibromofluoromethane	100	70-130		%Rec	1	4/15/2022 7:21:00 AM
Surr: Toluene-d8	94.6	70-130		%Rec	1	4/15/2022 7:21:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: NMW-1

Project: ATEX 213

Collection Date: 4/6/2022 3:20:00 PM

Lab ID: 2204365-006

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	4/7/2022 10:17:56 PM
Sulfate	200	2.5		mg/L	5	4/7/2022 10:17:56 PM
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	32	1.0		µg/L	1	4/15/2022 7:44:00 AM
Toluene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Ethylbenzene	1.4	1.0		µg/L	1	4/15/2022 7:44:00 AM
Methyl tert-butyl ether (MTBE)	4.5	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Naphthalene	8.4	2.0		µg/L	1	4/15/2022 7:44:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 7:44:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 7:44:00 AM
Acetone	ND	10		µg/L	1	4/15/2022 7:44:00 AM
Bromobenzene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Bromoform	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Bromomethane	ND	3.0		µg/L	1	4/15/2022 7:44:00 AM
2-Butanone	ND	10		µg/L	1	4/15/2022 7:44:00 AM
Carbon disulfide	ND	10		µg/L	1	4/15/2022 7:44:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Chlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Chloroethane	ND	2.0		µg/L	1	4/15/2022 7:44:00 AM
Chloroform	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Chloromethane	ND	3.0		µg/L	1	4/15/2022 7:44:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/15/2022 7:44:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Dibromomethane	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference

- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: NMW-1

Project: ATEX 213

Collection Date: 4/6/2022 3:20:00 PM

Lab ID: 2204365-006

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/15/2022 7:44:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
2-Hexanone	ND	10		µg/L	1	4/15/2022 7:44:00 AM
Isopropylbenzene	4.5	1.0		µg/L	1	4/15/2022 7:44:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/15/2022 7:44:00 AM
Methylene Chloride	ND	3.0		µg/L	1	4/15/2022 7:44:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	4/15/2022 7:44:00 AM
n-Propylbenzene	9.9	1.0		µg/L	1	4/15/2022 7:44:00 AM
sec-Butylbenzene	1.7	1.0		µg/L	1	4/15/2022 7:44:00 AM
Styrene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/15/2022 7:44:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/15/2022 7:44:00 AM
Vinyl chloride	ND	1.0		µg/L	1	4/15/2022 7:44:00 AM
Xylenes, Total	3.4	1.5		µg/L	1	4/15/2022 7:44:00 AM
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%Rec	1	4/15/2022 7:44:00 AM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	4/15/2022 7:44:00 AM
Surr: Dibromofluoromethane	92.7	70-130		%Rec	1	4/15/2022 7:44:00 AM
Surr: Toluene-d8	101	70-130		%Rec	1	4/15/2022 7:44:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: MW-1R

Project: ATEX 213

Collection Date: 4/6/2022 2:55:00 PM

Lab ID: 2204365-007

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	4/7/2022 11:09:26 PM
Sulfate	200	2.5		mg/L	5	4/7/2022 11:09:26 PM
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Toluene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Ethylbenzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Naphthalene	4.3	2.0		µg/L	1	4/15/2022 8:07:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 8:07:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 8:07:00 AM
Acetone	ND	10		µg/L	1	4/15/2022 8:07:00 AM
Bromobenzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Bromoform	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Bromomethane	ND	3.0		µg/L	1	4/15/2022 8:07:00 AM
2-Butanone	ND	10		µg/L	1	4/15/2022 8:07:00 AM
Carbon disulfide	ND	10		µg/L	1	4/15/2022 8:07:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Chlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Chloroethane	ND	2.0		µg/L	1	4/15/2022 8:07:00 AM
Chloroform	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Chloromethane	ND	3.0		µg/L	1	4/15/2022 8:07:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/15/2022 8:07:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Dibromomethane	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: MW-1R

Project: ATEX 213

Collection Date: 4/6/2022 2:55:00 PM

Lab ID: 2204365-007

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/15/2022 8:07:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
2-Hexanone	ND	10		µg/L	1	4/15/2022 8:07:00 AM
Isopropylbenzene	5.0	1.0		µg/L	1	4/15/2022 8:07:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/15/2022 8:07:00 AM
Methylene Chloride	ND	3.0		µg/L	1	4/15/2022 8:07:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	4/15/2022 8:07:00 AM
n-Propylbenzene	15	1.0		µg/L	1	4/15/2022 8:07:00 AM
sec-Butylbenzene	2.0	1.0		µg/L	1	4/15/2022 8:07:00 AM
Styrene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/15/2022 8:07:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/15/2022 8:07:00 AM
Vinyl chloride	ND	1.0		µg/L	1	4/15/2022 8:07:00 AM
Xylenes, Total	ND	1.5		µg/L	1	4/15/2022 8:07:00 AM
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%Rec	1	4/15/2022 8:07:00 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	4/15/2022 8:07:00 AM
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	4/15/2022 8:07:00 AM
Surr: Toluene-d8	99.3	70-130		%Rec	1	4/15/2022 8:07:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: MW-6RR

Project: ATEX 213

Collection Date: 4/6/2022 2:30:00 PM

Lab ID: 2204365-008

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	4/7/2022 11:35:09 PM
Sulfate	95	2.5		mg/L	5	4/7/2022 11:35:09 PM
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Toluene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Ethylbenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Naphthalene	ND	2.0		µg/L	1	4/15/2022 8:30:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 8:30:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 8:30:00 AM
Acetone	ND	10		µg/L	1	4/15/2022 8:30:00 AM
Bromobenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Bromoform	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Bromomethane	ND	3.0		µg/L	1	4/15/2022 8:30:00 AM
2-Butanone	ND	10		µg/L	1	4/15/2022 8:30:00 AM
Carbon disulfide	ND	10		µg/L	1	4/15/2022 8:30:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Chlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Chloroethane	ND	2.0		µg/L	1	4/15/2022 8:30:00 AM
Chloroform	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Chloromethane	ND	3.0		µg/L	1	4/15/2022 8:30:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/15/2022 8:30:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Dibromomethane	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: MW-6RR

Project: ATEX 213

Collection Date: 4/6/2022 2:30:00 PM

Lab ID: 2204365-008

Matrix: AQUEOUS

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/15/2022 8:30:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
2-Hexanone	ND	10		µg/L	1	4/15/2022 8:30:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/15/2022 8:30:00 AM
Methylene Chloride	ND	3.0		µg/L	1	4/15/2022 8:30:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	4/15/2022 8:30:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Styrene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/15/2022 8:30:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/15/2022 8:30:00 AM
Vinyl chloride	ND	1.0		µg/L	1	4/15/2022 8:30:00 AM
Xylenes, Total	ND	1.5		µg/L	1	4/15/2022 8:30:00 AM
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%Rec	1	4/15/2022 8:30:00 AM
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	4/15/2022 8:30:00 AM
Surr: Dibromofluoromethane	98.2	70-130		%Rec	1	4/15/2022 8:30:00 AM
Surr: Toluene-d8	95.8	70-130		%Rec	1	4/15/2022 8:30:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix interference

B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: Trip Blank

Project: ATEX 213

Collection Date: 4/6/2022 2:30:00 PM

Lab ID: 2204365-009

Matrix: TRIP BLANK

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Toluene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Ethylbenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Naphthalene	ND	2.0		µg/L	1	4/15/2022 8:54:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 8:54:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/15/2022 8:54:00 AM
Acetone	ND	10		µg/L	1	4/15/2022 8:54:00 AM
Bromobenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Bromoform	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Bromomethane	ND	3.0		µg/L	1	4/15/2022 8:54:00 AM
2-Butanone	ND	10		µg/L	1	4/15/2022 8:54:00 AM
Carbon disulfide	ND	10		µg/L	1	4/15/2022 8:54:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Chlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Chloroethane	ND	2.0		µg/L	1	4/15/2022 8:54:00 AM
Chloroform	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Chloromethane	ND	3.0		µg/L	1	4/15/2022 8:54:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/15/2022 8:54:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Dibromomethane	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/15/2022 8:54:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2204365

Date Reported: 4/18/2022

CLIENT: EA Engineering

Client Sample ID: Trip Blank

Project: ATEX 213

Collection Date: 4/6/2022 2:30:00 PM

Lab ID: 2204365-009

Matrix: TRIP BLANK

Received Date: 4/7/2022 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
2-Hexanone	ND	10		µg/L	1	4/15/2022 8:54:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/15/2022 8:54:00 AM
Methylene Chloride	ND	3.0		µg/L	1	4/15/2022 8:54:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	4/15/2022 8:54:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Styrene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/15/2022 8:54:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/15/2022 8:54:00 AM
Vinyl chloride	ND	1.0		µg/L	1	4/15/2022 8:54:00 AM
Xylenes, Total	ND	1.5		µg/L	1	4/15/2022 8:54:00 AM
Surr: 1,2-Dichloroethane-d4	97.1	70-130		%Rec	1	4/15/2022 8:54:00 AM
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	4/15/2022 8:54:00 AM
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/15/2022 8:54:00 AM
Surr: Toluene-d8	96.2	70-130		%Rec	1	4/15/2022 8:54:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204365

18-Apr-22

Client: EA Engineering
Project: ATEX 213

Sample ID: A5	SampType: ccv_5		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079503		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	4.9	0.10	4.800	0	103	90	110			
Sulfate	20	0.50	20.00	0	97.6	90	110			

Sample ID: MB	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBW	Batch ID: R87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079506		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: ics		TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch ID: R87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079507		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Sulfate	9.4	0.50	10.00	0	94.0	90	110			

Sample ID: A4	SampType: ccv_4		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079514		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.9	0.10	3.000	0	97.0	90	110			
Sulfate	12	0.50	12.50	0	93.1	90	110			

Sample ID: A5	SampType: ccv_5		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079526		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	4.9	0.10	4.800	0	103	90	110			
Sulfate	20	0.50	20.00	0	98.2	90	110			

Sample ID: A4	SampType: ccv_4		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079538		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204365

18-Apr-22

Client: EA Engineering
Project: ATEX 213

Sample ID: A4	SampType: ccv_4		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079538		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.9	0.10	3.000	0	97.3	90	110			
Sulfate	12	0.50	12.50	0	93.2	90	110			

Sample ID: A5	SampType: ccv_5		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079550		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	5.0	0.10	4.800	0	103	90	110			
Sulfate	20	0.50	20.00	0	97.8	90	110			

Sample ID: MB	SampType: mblik		TestCode: EPA Method 300.0: Anions							
Client ID: PBW	Batch ID: A87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079554		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: ics		TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch ID: A87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079555		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Sulfate	9.2	0.50	10.00	0	92.0	90	110			

Sample ID: A4	SampType: ccv_4		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079562		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.9	0.10	3.000	0	97.5	90	110			
Sulfate	12	0.50	12.50	0	93.3	90	110			

Sample ID: 2204365-008BMS	SampType: ms		TestCode: EPA Method 300.0: Anions							
Client ID: MW-6RR	Batch ID: A87109		RunNo: 87109							
Prep Date:	Analysis Date: 4/7/2022		SeqNo: 3079567		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204365

18-Apr-22

Client: EA Engineering
Project: ATEX 213

Sample ID: 2204365-008BMS	SampType: ms	TestCode: EPA Method 300.0: Anions								
Client ID: MW-6RR	Batch ID: A87109	RunNo: 87109								
Prep Date:	Analysis Date: 4/7/2022	SeqNo: 3079567	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	12	0.50	12.50	0	99.8	93.5	110			
Sulfate	140	2.5	50.00	94.64	95.1	90.5	112			

Sample ID: 2204365-008BMSD	SampType: msd	TestCode: EPA Method 300.0: Anions								
Client ID: MW-6RR	Batch ID: A87109	RunNo: 87109								
Prep Date:	Analysis Date: 4/8/2022	SeqNo: 3079568	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	13	0.50	12.50	0	101	93.5	110	0.763	20	
Sulfate	140	2.5	50.00	94.64	95.4	90.5	112	0.130	20	

Sample ID: A5	SampType: ccv_5	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R87109	RunNo: 87109								
Prep Date:	Analysis Date: 4/8/2022	SeqNo: 3079574	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	5.0	0.10	4.800	0	103	90	110			
Sulfate	20	0.50	20.00	0	98.2	90	110			

Sample ID: A4	SampType: ccv_4	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R87109	RunNo: 87109								
Prep Date:	Analysis Date: 4/8/2022	SeqNo: 3079586	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.9	0.10	3.000	0	97.6	90	110			
Sulfate	12	0.50	12.50	0	93.3	90	110			

Sample ID: A5	SampType: ccv_5	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R87133	RunNo: 87133								
Prep Date:	Analysis Date: 4/8/2022	SeqNo: 3080802	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	4.9	0.10	4.800	0	103	90	110			
Sulfate	20	0.50	20.00	0	98.3	90	110			

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R87133	RunNo: 87133								
Prep Date:	Analysis Date: 4/8/2022	SeqNo: 3080805	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204365

18-Apr-22

Client: EA Engineering

Project: ATEX 213

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R87133	RunNo: 87133								
Prep Date:	Analysis Date: 4/8/2022	SeqNo: 3080805			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R87133	RunNo: 87133								
Prep Date:	Analysis Date: 4/8/2022	SeqNo: 3080806			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Sulfate	9.4	0.50	10.00	0	94.1	90	110			

Sample ID: A4	SampType: ccv_4	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R87133	RunNo: 87133								
Prep Date:	Analysis Date: 4/8/2022	SeqNo: 3080814			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.9	0.10	3.000	0	97.3	90	110			
Sulfate	12	0.50	12.50	0	93.4	90	110			

Sample ID: A5	SampType: ccv_5	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R87133	RunNo: 87133								
Prep Date:	Analysis Date: 4/8/2022	SeqNo: 3080826			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	4.9	0.10	4.800	0	103	90	110			
Sulfate	20	0.50	20.00	0	97.9	90	110			

Sample ID: 2204365-003BMS	SampType: ms	TestCode: EPA Method 300.0: Anions								
Client ID: RNMW-3	Batch ID: R87133	RunNo: 87133								
Prep Date:	Analysis Date: 4/8/2022	SeqNo: 3080831			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0.02450	95.9	93.5	110			

Sample ID: 2204365-003BMSD	SampType: msd	TestCode: EPA Method 300.0: Anions								
Client ID: RNMW-3	Batch ID: R87133	RunNo: 87133								
Prep Date:	Analysis Date: 4/8/2022	SeqNo: 3080832			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0.02450	96.8	93.5	110	0.880	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204365

18-Apr-22

Client: EA Engineering
Project: ATEX 213

Sample ID: A4	SampType: ccv_4		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R87133		RunNo: 87133							
Prep Date:	Analysis Date: 4/8/2022		SeqNo: 3080838		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.9	0.10	3.000	0	97.3	90	110			
Sulfate	12	0.50	12.50	0	93.2	90	110			

Sample ID: A5	SampType: ccv_5		TestCode: EPA Method 300.0: Anions							
Client ID: BatchQC	Batch ID: R87133		RunNo: 87133							
Prep Date:	Analysis Date: 4/8/2022		SeqNo: 3080845		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	5.0	0.10	4.800	0	103	90	110			
Sulfate	20	0.50	20.00	0	98.2	90	110			

Qualifiers:

- | | |
|--|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Estimated value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix interference | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204365

18-Apr-22

Client: EA Engineering

Project: ATEX 213

Sample ID: 100ng lcs 2	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: B87243	RunNo: 87243								
Prep Date:	Analysis Date: 4/15/2022	SeqNo: 3085648 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	97.5	70	130			
Toluene	20	1.0	20.00	0	99.2	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	92.2	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.9	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.5	70	130			
Surr: Toluene-d8	9.7		10.00		97.4	70	130			

Sample ID: mb2	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: B87243	RunNo: 87243								
Prep Date:	Analysis Date: 4/15/2022	SeqNo: 3085649 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204365

18-Apr-22

Client: EA Engineering

Project: ATEX 213

Sample ID: mb2	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: B87243	RunNo: 87243								
Prep Date:	Analysis Date: 4/15/2022	SeqNo: 3085649	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204365

18-Apr-22

Client: EA Engineering

Project: ATEX 213

Sample ID: mb2	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: B87243	RunNo: 87243								
Prep Date:	Analysis Date: 4/15/2022	SeqNo: 3085649			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.7	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.6	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.5	70	130			
Surr: Toluene-d8	9.7		10.00		97.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204365

18-Apr-22

Client: EA Engineering

Project: ATEX 213

Sample ID: MB-66790	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 66790	RunNo: 87253								
Prep Date: 4/13/2022	Analysis Date: 4/14/2022	SeqNo: 3085300	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-66790	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 66790	RunNo: 87253								
Prep Date: 4/13/2022	Analysis Date: 4/14/2022	SeqNo: 3085301	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	100	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Sample Log-In Check List

Client Name: EA Engineering

Work Order Number: 2204365

RcptNo: 1

Received By: Joseph Alderette 4/7/2022 3:40:00 PM

Completed By: Tracy Casarrubias 4/7/2022 3:57:51 PM

Reviewed By: *me* 4/8/22
M. Frakes - JN 4/7/22

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C? Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: *8*
 (<2 or >12 unless noted)
 Adjusted? *NO*
 Checked by: *JN 4/8/22*

unpres Labeled: KPA 4/7/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Not Present			

Chain-of-Custody Record

Client: **EA Engineering Science & Technology Inc PBC**
 Mailing Address: **320 Gold Avenue SW**
Suite 1300 Albuquerque Nm 87102
 Phone #: **505-296-1070**
 email or Fax#: **U Mustafin@eact.com**

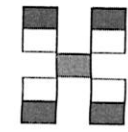
Turn-Around Time:
 Standard Rush
 Project Name: **ATEX 213**
 Project #: **23557**
 Project Manager: **Jonor Mustafin**

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Sampler: **A KUPPA**
 On Ice: Yes No
 # of Coolers: **1**

Cooler Temp (including CF): **14 + 0.3 = 1.7** (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4-6-22	1725		MW-38	3x 40ml Voa 2 Poly	HgCl ₂ , NonO, H ₂ SO ₄	2204365 001
4-6-22	1705		NMW-4R	3x 40ml Voa 2 Poly	HgCl ₂ , NonO, H ₂ SO ₄	002
4-6-22	1630		RNMW-3	3x 40ml Voa 3 Poly	HgCl ₂ , NonO, H ₂ SO ₄ , NonO	003
4-6-22	1605		RNMW-3 nd 2	3x 40ml Voa 2 Poly	HgCl ₂ , NonO, H ₂ SO ₄	004
4-6-22	1545		MW-4R	3x 40ml Voa 2 Poly	HgCl ₂ , NonO, H ₂ SO ₄	005
4-6-22	1520		NMW-1	3x 40ml Voa 2 Poly	HgCl ₂ , NonO, H ₂ SO ₄	006
4-6-22	1455		MW-1R	3x 40ml Voa 2 Poly	HgCl ₂ , NonO, H ₂ SO ₄	007
4-6-22	1430		MW-6RR	3x 40ml Voa 2 Poly	HgCl ₂ , NonO, H ₂ SO ₄	008
4-6-22	1430		Trip Blank	2x 40ml Voa		009



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Sulfate/Nitrate	Total Dissolved Solids

Date: **4-7-22** Time: Relinquished by: *[Signature]*
 Received by: *[Signature]* Via: **ODD** Date: **4-7-22** Time: **15:40**
 Date: Time: Relinquished by: Received by: Via: Date Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.