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Third Quarterly Groundwater Monitoring Report

Atex 213
3501 Isleta Boulevard, SW
Albuquerque, NM

PSTB Facility #31815, Release ID #28
Work Plan ID #4298, Deliverable ID #4298-3
Contract #20-667-3200-0020

Submitted to:

New Mexico Environment Department
Petroleum Storage Tank Bureau
121 Tijeras Ave. NE, Ste. 1000
Albuquerque, New Mexico 87102-3400

Submitted by:

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

320 Gold Avenue SW, Suite 1300
Albuquerque, NM 87102
Telephone: 505-224-9013

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

October 28, 2023

EA Engineering, Science, and Technology, Inc. PBC
320 Gold Avenue, SW, Albuquerque, NM
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October 28, 2023

Mr. Corey Jarrett
Geoscientist - Supervisor
Remedial Action Program
New Mexico Environment Department
Petroleum Storage Tank Bureau
2905 Rodeo Park Dr. East, Building 1
Santa Fe, NM 87505

Third Quarterly Groundwater Monitoring Report
Atex 213, 3501 Isleta Boulevard, SW, Albuquerque, NM
Release ID #: 28 Facility #: 31815 Work Plan 4298 Deliverable ID 4298-3
Contract #: 22 667 3200 0020

Dear Mr. Jarrett:

EA Engineering, Science, and Technology, Inc. PBC (EA) prepared this report to present the results of groundwater monitoring performed by EA on September 6, 2023, at Atex 213 located at 3501 Isleta Boulevard, SW, Albuquerque, New Mexico (***Figure 1***). This is the third monitoring event after the injection of PetroFix® in September 2022.

1. BACKGROUND

1.1 Release, PetroFix® Injection, Hydrogeology

- 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 wells ***NMW-1*** (56 micrograms per liter [µg/L]) and ***RNMW-2*** (13 µg/L); the ***total naphthalenes*** concentration exceeded the standard in ***MW-1R*** (37 µg/L).
- In June 2022, EA prepared and submitted to NMED PSTB a ***Final Remediation Plan*** to inject ***PetroFix® with nitrate and sulfate electron donor amendments*** into the impacted saturated zone around ***MW-1R, RNMW-2***, and ***NMW-1*** using direct push methodology (EA, Jun 6, 2022).
- In September 2022, ***EA injected 1,464 pounds of PetroFix® (150 gallons) mixed with water (total solution volume of 1,066 gallons) around wells NMW-1, MW-1R, and RNMW-2***.
- Groundwater in the area of concern is located approximately ***9-11 feet below the ground surface (bgs)***. The groundwater flow direction is to the ***south-southeast at a*** gradient of approximately ***0.001-0.002***.
- The soil in the vadose and saturated zones consists primarily of poorly to well-graded ***fine to coarse sands, silty sand near the surface, and lenses of silt/clay***.

1.2 April 2022 Baseline Groundwater Elevations and Geochemical Parameters

Well ID	Depth to Water	Casing Elevation	Groundwater Elevation	Groundwater Temperature	Specific Conductance	pH	Oxidation-Reduction Potential	Dissolved Oxygen
Units	*feet toc*	*feet amsl*	*feet amsl*	*degrees Celsius*	*µS/cm*	*S.U.*	*mV*	*µg/L*
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

Notes:
µS/cm = micro-Siemens per centimeter
amsl = above the mean sea level
mV = millivolts
µg/L = micrograms per liter
toc = top of the well casing
S.U. = standard units

1.3 April 2022 Baseline Groundwater Contaminant Concentrations

Historically, the primary contaminants of concern (COCs) at the site have been petroleum hydrocarbons that included ***benzene, toluene, ethylbenzene, total xylene (BTEX), methyl tertiary-butyl ether (MTBE), and total naphthalenes***. Recently, benzene and total naphthalene concentrations have been above the standards.

In April 2022, the benzene concentration was 32 µg/L in NMW-1 and 44 µg/L in RNMW-2, above the NMWQCC standard of 5 µg/L. All other COCs were below their associated standards. A summary of the results is provided in the table below:

Well ID	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Total Naphthalenes	Nitrate	Sulfate	TDS
Standard	*5*	*1,000*	*700*	*620*	*100*	*30*	*10*	*600*	*1,000*
Units	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*mg/L*	*mg/L*	*mg/L*
MW-1R	<1.0	<1.0	<1.0	<1.5	<1.0	4.3	<0.50	0.2	-
MW-38	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.50	130	-
MW-4R	<1.0	<1.0	<1.0	<1.5	1.7	<10	<0.50	100	-
MR-6RR	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.50	95	-
NMW-1	**32**	<1.0	1.4	3.4	4.5	8.4	<0.50	200	-
NMW-4R	<1.0	<1.0	<1.0	<1.5	1.9	<10	<0.50	91	-
RNMW-2	**44**	<2.0	<2.0	<3.0	51	13	<0.50	68	-
RNMW-3	<1.0	<1.0	<1.0	<1.5	5.5	<10	<0.10	100	586

Notes:
Bold *indicates concentration above the New Mexico Administrative Code 20.6.2.3103 Human Health Standards for Groundwater.*
MTBE = Methyl tertiary butyl ether
TDS = Total dissolved solids

2. SCOPE AND EXECUTION

On September 6, 2023, EA personnel completed the following scope of work for the 3rd quarterly post-injection groundwater monitoring event:

- Gauged water levels in wells ***MW-1R, MW-4R, MW-6RR, MW-38, NMW-1, NMW-4R, RNMW-2, and RNMW-3***. Field records are provided in ***Appendix A*** and gauging results are in ***Table 1***.
- Before sampling, wells were purged using dedicated, clean, disposable bailers and twine. During purging, ***dissolved oxygen (DO), oxygen-reduction potential (ORP), pH, temperature, and specific conductivity (SpC) were measured*** using a calibrated water quality meter. Field records are provided in ***Appendix A*** and groundwater geochemical parameter results are in ***Table 2***.
- Collected groundwater samples from ***MW-1R, MW-4R, MW-6RR, MW-38, NMW-1, NMW-4R, RNMW-2, and RNMW-3***. Samples were collected into clean sealed containers supplied by Hall Environmental Analysis Laboratory (HEAL), labeled, placed into coolers packed with ice, entered into a chain of custody, and delivered to HEAL under direct custody.
- Submitted groundwater samples to Hall Environmental Analysis Laboratory for volatile organic compounds (***VOCs***) analysis by the U.S. Environmental Protection Agency (EPA) ***Method 8260B***. Laboratory results are provided in ***Appendix B,*** sample quality control requirements are in ***Table 3***, and groundwater geochemical parameter results are in ***Table 4***.
- Prepared and submitted this report.

3. RESULTS

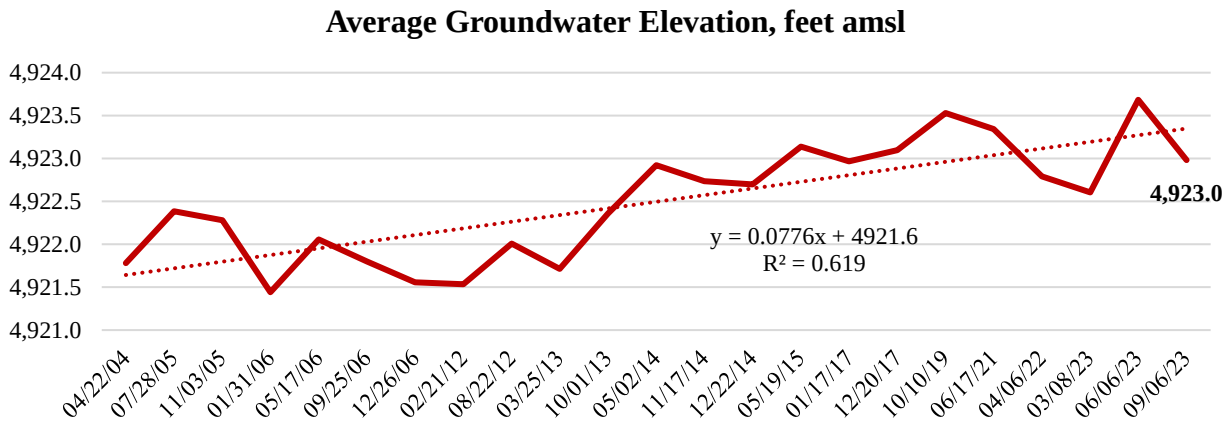
3.1 Groundwater Levels, Flow Direction, and Gradient

Provided below is a summary of groundwater gauging performed on September 6, 2023. Historical data are provided in ***Table 1***.

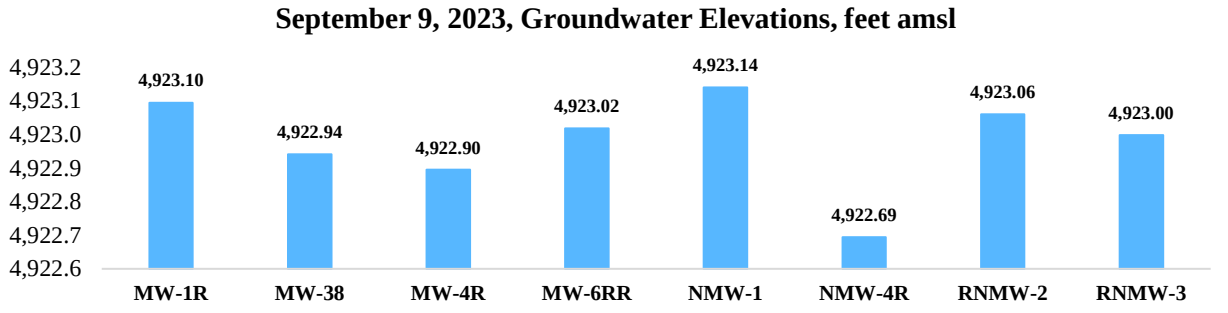
Units	*mm/dd/yy*	*feet amsl*	*feet btoc*	*feet amsl*
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**
MW-1R	09/06/23	4932.08	8.98	4923.10
MW-4R	09/06/23	4933.42	10.52	4922.90
MW-6RR	09/06/23	4933.90	10.88	4923.02
MW-38	09/06/23	4931.87	8.93	4922.94
NMW-1	09/06/23	4932.63	9.49	4923.14
NMW-4R	09/06/23	4932.53	9.84	4922.69
RNMW-2	09/06/23	4933.45	10.39	4923.06
RNMW-3	09/06/23	4933.22	10.22	4923.00

feet amsl = feet above mean sea level
feet bloc = feet below the top of the well casing
mm/dd/yy = month/date/year

The average water level was 9.9 feet below the surface and the average groundwater elevation was 4,923.0 feet above the mean sea level (amsl), within the levels observed since 2014. The groundwater level trend since 2004 has been increasing.



The groundwater levels ranged from 4,922.69 in NMW-4R feet amsl and 4,923.14 feet amsl in NMW-1.



When compared to June 2023, the average elevation increased by 0.7 feet. The groundwater flow was to the ***south-southeast at an average gradient of 0.015*** (***Figure 2***).

3.2 Groundwater Geochemical Conditions

Provided below is a summary of the groundwater geochemical conditions.

Groundwater Geochemical Parameters

Units	*mm/dd/yy*	*S.U.*	*µS/cm*	*°C*	*mg/L*	*mV*
Well	**Date**	**pH**	**SpC**	**Temp**	**DO**	**ORP**
RNMW-3	09/06/23	7.41	1,840	24.7	0.35	3
MW-4R	09/06/23	7.45	1,387	24.0	0.26	-34
RNMW-2	09/06/23	7.36	1,680	24.1	0.31	36
MW-6RR	09/06/23	7.49	1,357	21.4	0.25	21
MW-1R	09/06/23	7.70	1,314	24.1	0.21	-5
NMW-1	09/06/23	7.00	1,924	26.0	0.26	-114
MW-38	09/06/23	7.04	1,546	24.8	0.30	13
NMW-4R	09/06/23	7.16	759	22.2	0.26	21
Average	**09/06/23**	**7.33**	**1,476**	**23.9**	**0.28**	**-7**

NOTES:

DO = Dissolved oxygen in milligrams per liter (mg/L)

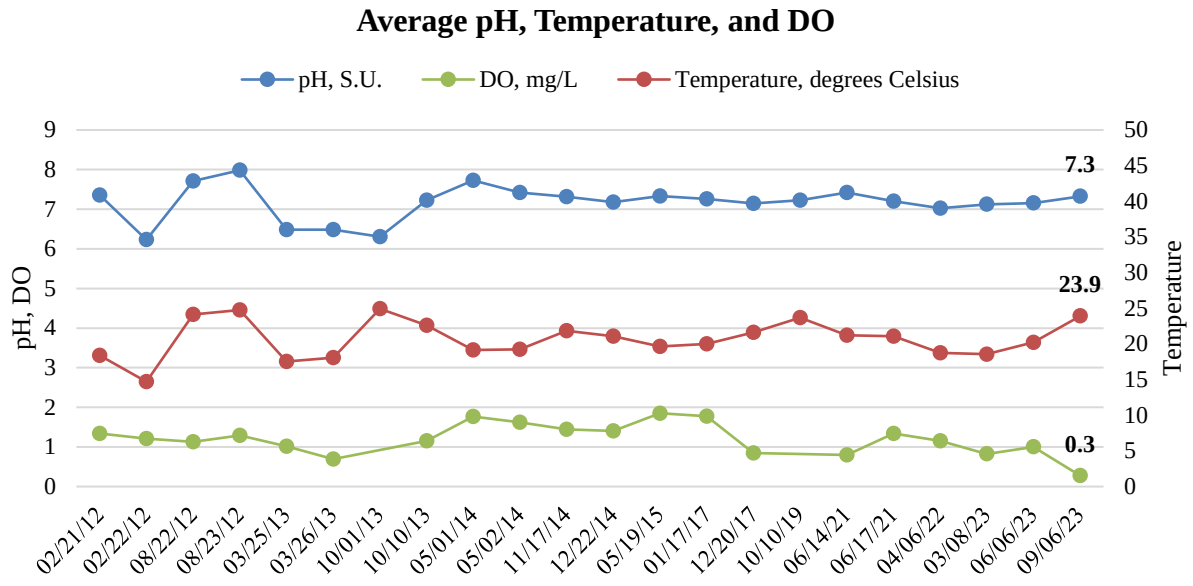
ORP = Oxidation-Reduction Potential in millivolts (mVs)

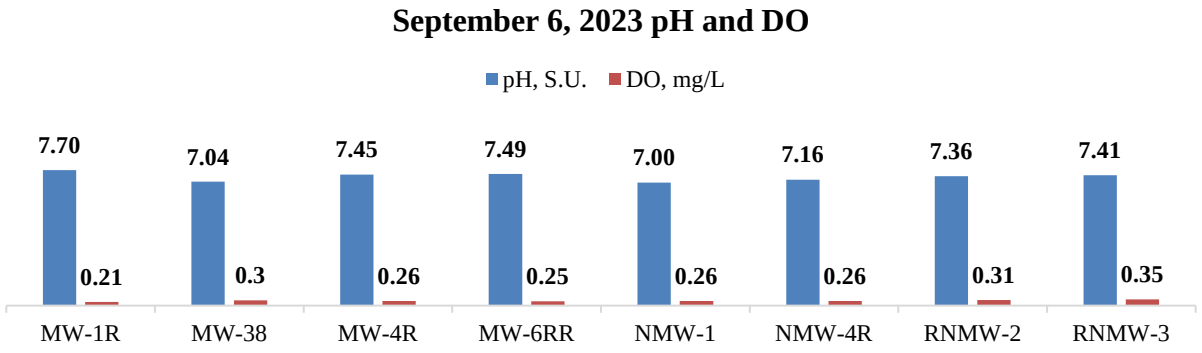
pH = Potential of Hydrogen, standard units (S.U.)

SpC = Specific conductance in micro-siemens per centimeter (µS/cm)

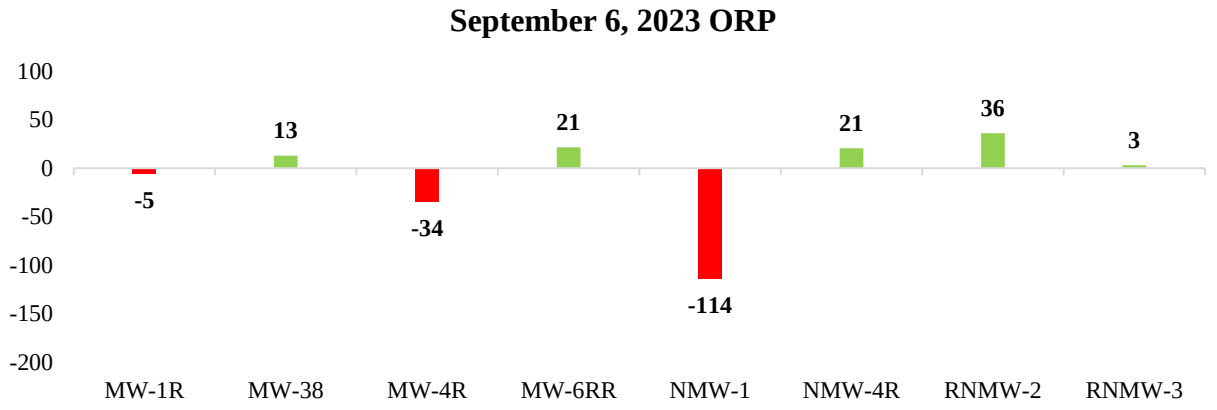
Temp = Temperature in degrees Celsius (°C)

The average ***pH was near neutral*** at 7.3 standard units, the ***DO was slightly aerobic*** at an average of 0.3 milligrams per liter (mg/L), ***ORP*** averaged -7.3 millivolts (mVs), and the ***temperature was conducive to biodegradation*** at an average of 23.9 degrees Celsius in line with the seasonal variation.

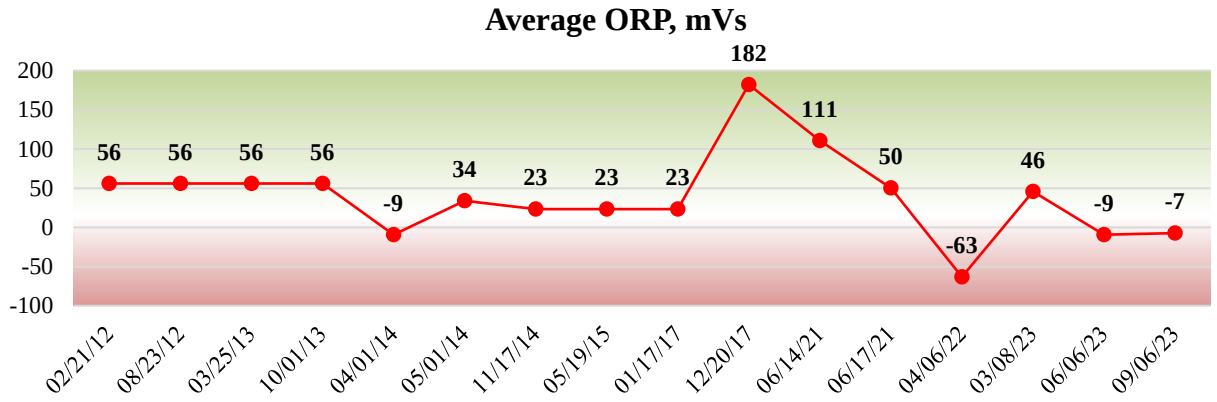




The ORP ranged from reducing in NMW-1, MW-4R, and MW-1R to oxidizing in RNMW-2, NMW-4R, MW-6RR, MW-38, and RNMW-3. ORP was the most reducing (-114 mVs) in NMW-1 in which benzene concentrations were above the standard.



The average site ORP was similar to that of June 2023.

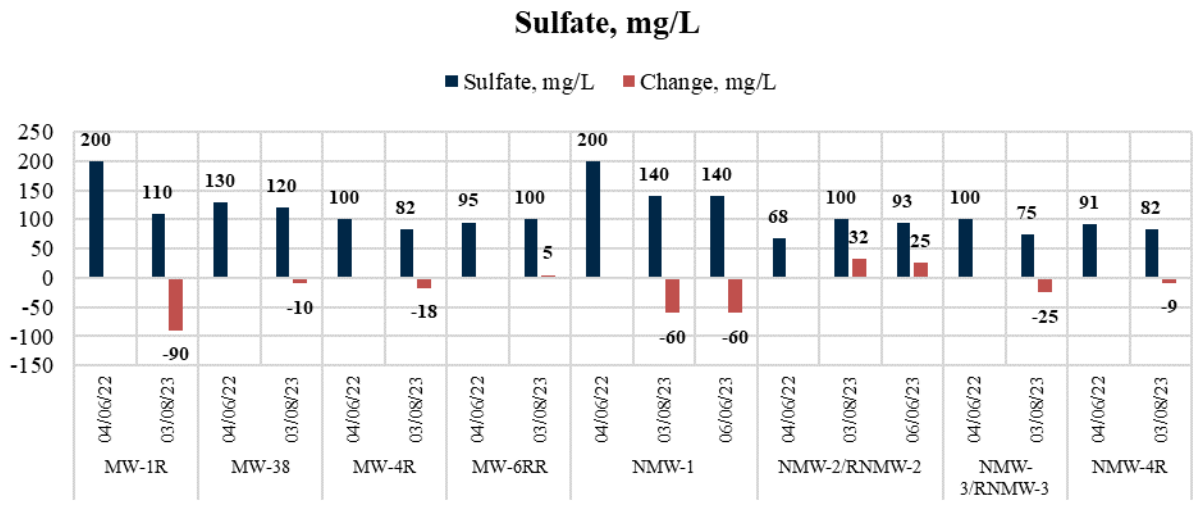


3.3 Nitrate, Sulfate, and TDS Concentration in Groundwater

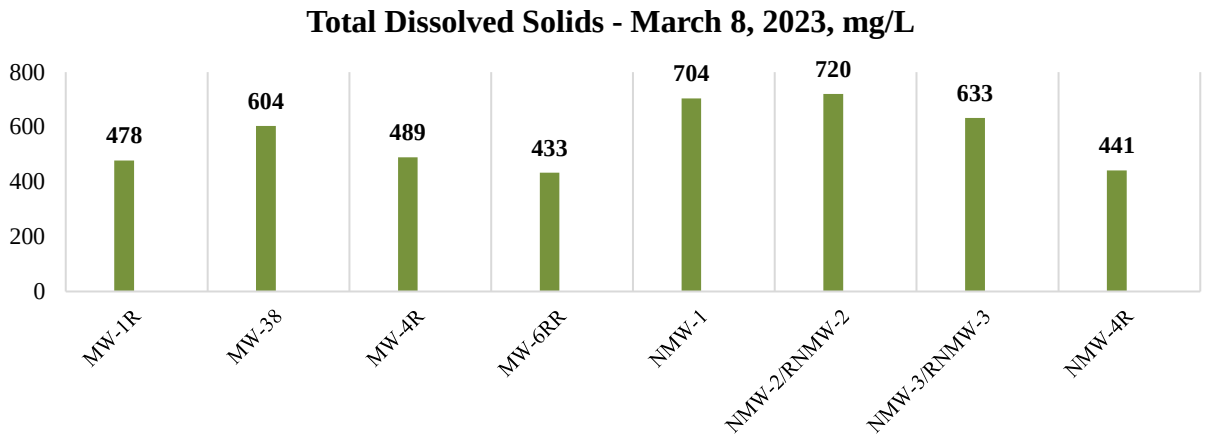
Nitrate and sulfate were added as electron acceptors during the injection of PetroFix®. ***Nitrate concentrations were below*** the laboratory limits in NMW-1 and RNMW-2 indicating that nitrate was depleted during the biodegradation of petroleum hydrocarbons through nitrate ***respiration***.

Nitrate, sulfate, and TDS were not analyzed during this quarter. The discussion below pertains to the previously collected data.

Between April 2022 and March 2023, ***sulfate concentrations decreased in MW-1R and NMW-1***, around which sulfate was injected with PetroFix®. The decrease indicates that petroleum hydrocarbons were likely biodegraded through ***sulfate respiration***. However, since March 2023, concentrations in NMW-1 did not change indicating that the sulfate reduction did not proceed further. The injection of sulfate around RNMW-2 is likely masking sulfate respiration as the pre-injection concentrations were about one-third of those in MW-1R and NMW-1.



In March 2023, the Total Dissolved Solids (TDS) concentrations ranged from 433 mg/L in MW-6RR to 720 mg/L in RNMW-2.



3.4 Volatile Organic Compounds in the Groundwater

Provided below is a summary of the September 6, 2023, results. Historical data are presented in ***Table 4***.

NMAC 20.6.2.3103	*5*	*1,000*	*700*	*620*	*100*	*30*
Well	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**TN**
MW-1R	**10**	< **20**	< **20**	< 30	< 20	< **500**
MW-4R	< 2.0	< 2.0	< 2.0	< 3.0	2.9	< 10
MW-6RR	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10
MW-38	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10
NMW-1	**41**	< 2.0	< 2.0	< 3.0	5.4	11
RNMW-2	< 1.0	< 1.0	< 1.0	< 1.5	22	< 10
/RNMW-3	< 1.0	< 1.0	< 1.0	< 1.5	20	< 10
NMW-4R	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10

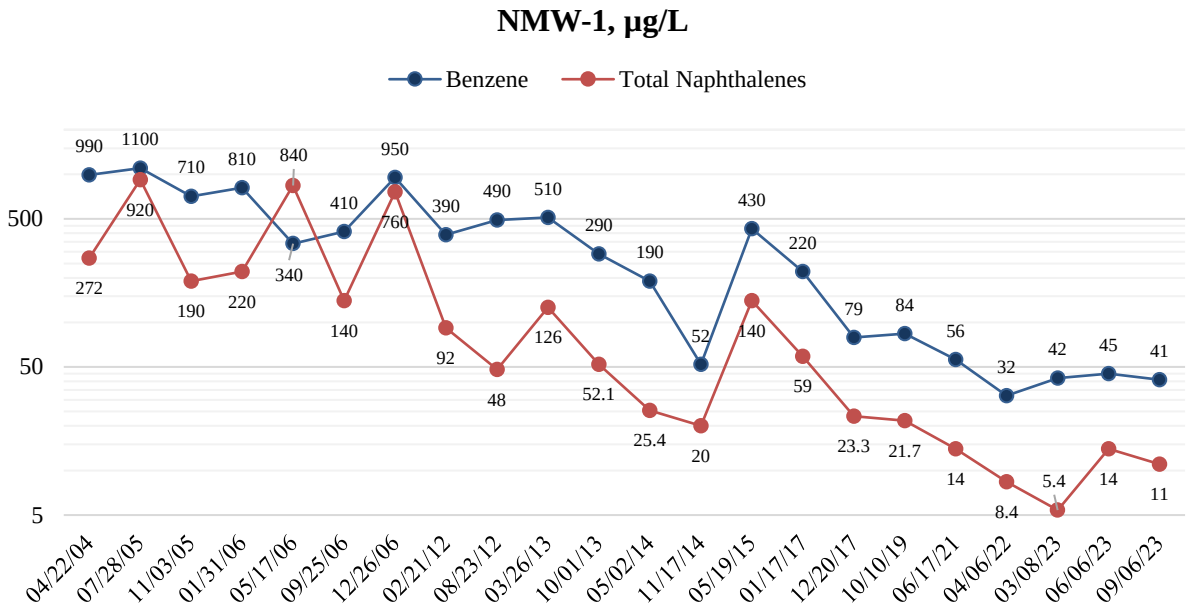
Concentrations are in micrograms per liter.
MW-1R had PetroFix® and was diluted in the laboratory due to matrix interference.
< = less than the laboratory reporting limit
MTBE = methyl tertiary butyl ether
TN = total naphthalenes

The benzene concentration of 41 micrograms per liter (µg/L) in NMW-1 and 10 µg/L in MW-1R exceeded the New Mexico Administrative Code (NMAC) 20.6.2.3103 human health standards for groundwater. In June 2023, benzene concentration in NMW-1 was 45 µg/L and in MW-1R was below 1.0 µg/L.

3.4.1 VOCs in NMW-1

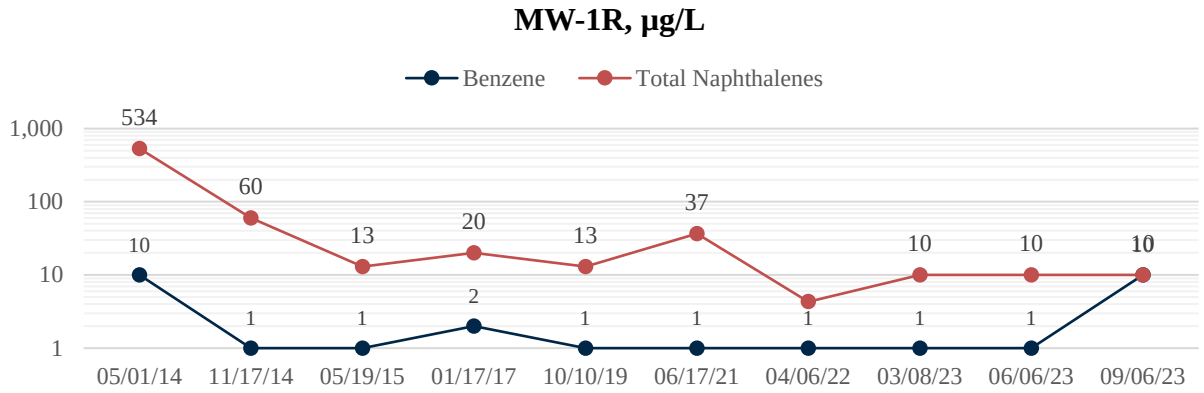
The overall benzene and total naphthalene concentration trends in NMW-1 are decreasing. However, after the September 2022 injection, there was not a noticeable change in concentrations which indicates that the influence of the injection was limited or insufficient to affect contaminant concentrations. An additional injection in the vicinity of the well is recommended.

A rapid decrease in ORP after the injection may indicate that hydraulic displacement of impacted groundwater occurred during the injection. The increased groundwater elevation may also influence concentrations. Initial aerobic conditions that decreased to near anoxic and reducing and evidence of nitrate and sulfate respiration indicate that biodegradation was likely ongoing. Microbial evaluation using Bio-Traps® and QuantArray Petro® would provide direct evidence of the types and degrees of biodegradation.



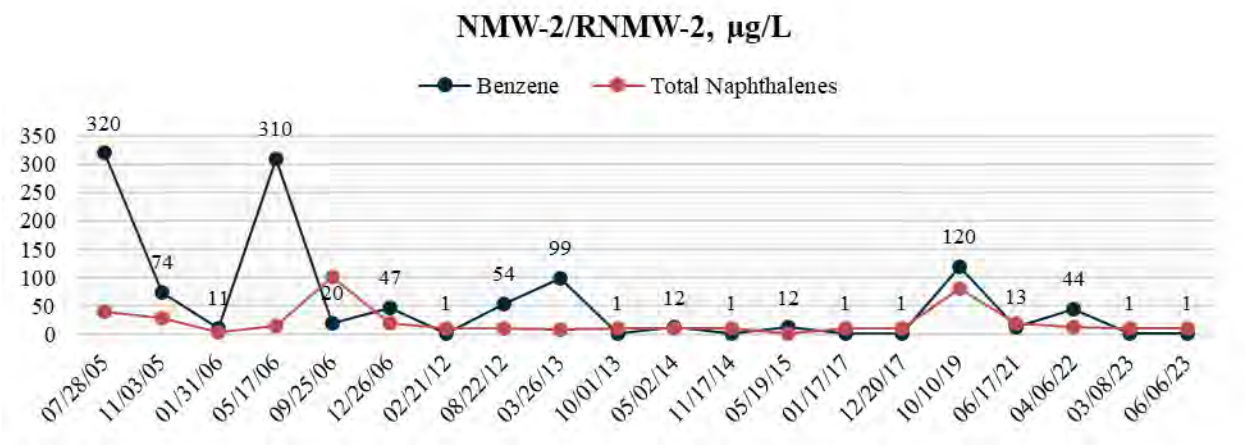
3.4.2 VOCs in MW-1R

After the injection, benzene and total naphthalene concentrations in MW-1R remained below the standards. PetroFix® was present in the well causing matrix interference that led to a high dilution factor of the sample and high laboratory detection limits. The graph below shows concentration trends.



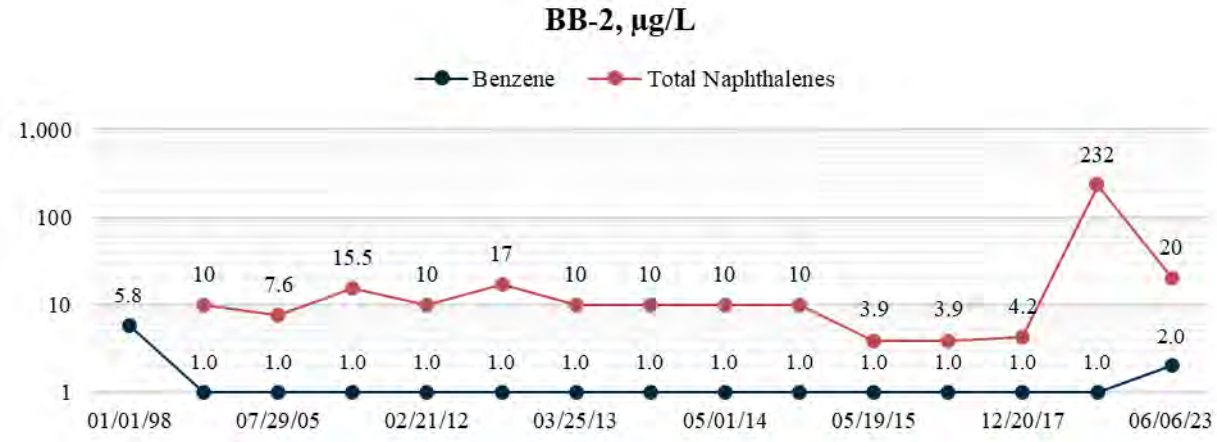
3.4.3 VOCs in NMW-2/RNMW-2

After the injection, benzene concentration in RNMW-2 decreased to below the standard and total naphthalene concentration remained below the standard.



3.4.3 VOCs in BB-2

In BB-2, the total naphthalene concentrations decreased from 232 µg/L in October 2019 to below the standard of 30 µg/L in June 2023, and benzene concentrations remained below the standard of 5 µg/L. BB-2 was not sampled in September 2023.



4.0 SUMMARY AND RECOMMENDATIONS

4.1. Summary

- The average depth to water was 9.9 feet bgs and the average groundwater elevation was 4,923.0 feet amsl, within the upper bound of levels observed since 2014. The groundwater flow was to the south-southeast at an average gradient of 0.015. The groundwater level trend since 2004 has been increasing.
- The pH was near neutral, DO was slightly aerobic, ORP ranged from reducing to oxidizing, and the temperature was conducive to biodegradation.
- After becoming oxidizing following the injection of PetroFix, the average ORP decreased into a slightly reduced range which may indicate that aerobic processes are likely decreased.
- After the injection, nitrate was not detected although it was injected. This indicates that nitrate respiration took place degrading hydrocarbon and denitrifying nitrates.
- Between the injection and March 2023, sulfate concentrations decreased indicating that sulfate respiration occurred and was likely degrading petroleum hydrocarbons by anaerobic bacteria. However, sulfate concentrations were largely unchanged between March 2023 and June 2023 indicating that sulfate respiration may have slowed or stalled.
- The TDS concentrations were within the expected range for the Rio Grande floodplain concentration range.
- ***The benzene concentration of 41 micrograms per liter (µg/L) in NMW-1 and 10 µg/L in MW-1R*** exceeded the New Mexico Administrative Code (NMAC) 20.6.2.3103 human health standards for groundwater.
- After the injection, benzene and total naphthalene concentrations in MW-1R decreased to below the standards; however, benzene concentration increased to 10 µg/L in September 2023. In RNMW-2, benzene total naphthalene concentrations decreased to below the standards.
- In BB-2, in October 2019, naphthalene concentration decreased from 232 µg/L to below the standard of 30 µg/L.

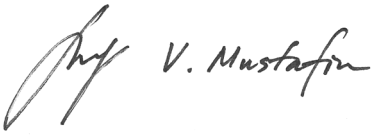
4.2 Recommendations

- Continue groundwater monitoring. One groundwater monitoring event remains under Work Plan 4298. The inclusion of BB-2 into the sampling regimen is recommended.
- Consider Quant-Array Petro® microbial analysis in the key wells to better understand the type and degree of biodegradation occurring at the site.
- Consider re-injection around wells NMW-1 and MW-1R.

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

ATTACHMENTS

Tables

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
BB-2	04/22/04	4,934.64	10.88	4923.76	
BB-2	07/28/05	4,934.64	11.34	4923.30	
BB-2	11/03/05	4,934.64	11.56	4923.08	
BB-2	01/31/06	4,934.64	12.36	4922.28	
BB-2	05/17/06	4,934.64	11.66	4922.98	
BB-2	09/25/06	4,934.64	11.72	4922.92	
BB-2	12/26/06	4,934.64	12.04	4922.60	
BB-2	02/21/12	4,934.64	12.24	4922.40	
BB-2	08/22/12	4,934.64	11.69	4922.95	
BB-2	03/25/13	4,934.64	12.05	4922.59	
BB-2	10/01/13	4,934.64	11.70	4922.94	
BB-2	05/02/14	4,934.64	11.81	4922.83	
BB-2	11/17/14	4,934.64	12.06	4922.58	
BB-2	05/19/15	4,934.64	11.56	4923.08	
BB-2	01/17/17	4,934.64	11.82	4922.82	
BB-2	12/20/17	4,934.64	11.69	4922.95	
BB-2	10/10/19	4,934.64	11.18	4923.46	
BB-2	06/06/23	4,934.64	11.01	4923.63	
MW-1	04/22/04	4,929.78	9.25	4920.53	
MW-1	07/28/05	4,929.78			*Dry*
MW-1	11/03/05	4,929.78			*Dry*
MW-1	01/31/06	4,929.78			*Dry*
MW-1	05/17/06	4,929.78			*Dry*
MW-1	09/25/06	4,929.78			*Dry*
MW-1	12/26/06	4,929.78			*Dry*
MW-1	02/21/12	4,929.78			*Dry*
MW-1	08/22/12	4,929.78			*Dry*
MW-1	03/25/13	4,929.78			*Dry*
MW-1	10/01/13	4,929.78			*Dry*
MW-1	04/29/14	4,929.78			*Plugged*
MW-10	04/22/04	4,930.98			*Plugged*
MW-1R	05/02/14	4,932.08	9.06	4923.02	
MW-1R	11/17/14	4,932.08	9.19	4922.89	***
MW-1R	05/19/15	4,932.08	8.86	4923.22	
MW-1R	01/17/17	4,932.08	8.98	4923.10	
MW-1R	12/20/17	4,932.08	8.87	4923.21	
MW-1R	10/10/19	4,932.08	8.45	4923.63	
MW-1R	06/17/21	4,932.08	8.63	4923.45	
MW-1R	04/06/22	4,932.08	9.27	4922.81	
MW-1R	03/08/23	4,932.08	9.34	4922.74	
MW-1R	06/06/23	4,932.08	8.32	4923.76	
MW-1R	09/06/23	4,932.08	8.98	4923.10	
MW-2	04/22/04	4,934.72	11.43	4923.29	
MW-2	07/28/05	4,934.72	11.39	4923.33	
MW-2	11/03/05	4,934.72	11.45	4923.27	
MW-2	01/31/06	4,934.72	12.27	4922.45	
MW-2	05/17/06	4,934.72	11.72	4923.00	
MW-2	09/25/06	4,934.72	11.82	4922.90	
MW-2	12/26/06	4,934.72	11.94	4922.78	
MW-2	02/21/12	4,934.72	12.13	4922.59	
MW-2	08/22/12	4,934.72	11.68	4923.04	
MW-2	03/25/13	4,934.72	11.96	4922.76	
MW-2	10/01/13	4,934.72	11.64	4923.08	
MW-2	05/02/14	4,934.72	11.74	4922.98	
MW-2	11/17/14	4,934.72	11.96	4922.76	
MW-2	05/19/15	4,934.72	11.59	4923.13	
MW-2	01/17/17	4,934.72	11.73	4922.99	
MW-2	12/20/17	4,934.72	11.61	4923.11	
MW-2	10/10/19	4,934.72	11.17	4923.55	

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
MW-2	06/17/21	4,934.72			*Could not locate well*
MW-29	04/22/04	4,930.19	9.60	4920.59	
MW-29	07/28/05	4,930.19	9.56	4920.63	
MW-29	11/03/05	4,930.19	9.66	4920.53	
MW-29	01/31/06	4,930.19	10.45	4919.74	
MW-29	05/17/06	4,930.19	9.89	4920.30	
MW-29	09/25/06	4,930.19	10.01	4920.18	
MW-29	12/26/06	4,930.19	11.14	4919.05	
MW-29	02/21/12	4,930.19	10.32	4919.87	
MW-29	08/22/12	4,930.19	9.87	4920.32	
MW-29	03/25/13	4,930.19	10.11	4920.08	
MW-29	10/01/13	4,930.19	9.81	4920.38	
MW-29	05/01/14	4,930.19			
MW-3	04/22/04	4,932.98	9.71	4923.27	
MW-3	07/28/05	4,932.98	9.65	4923.33	
MW-3	11/03/05	4,932.98	9.78	4923.20	
MW-3	01/31/06	4,932.98	10.57	4922.41	
MW-3	05/17/06	4,932.98	10.02	4922.96	
MW-3	09/25/06	4,932.98	10.05	4922.93	
MW-3	12/26/06	4,932.98	10.27	4922.71	
MW-3	02/21/12	4,932.98	10.42	4922.56	
MW-3	08/22/12	4,932.98	9.92	4923.06	
MW-3	03/25/13	4,932.98	10.25	4922.73	
MW-3	10/01/13	4,932.98	9.80	4923.18	
MW-3	05/02/14	4,932.98	10.00	4922.98	
MW-3	11/17/14	4,932.98	10.19	4922.79	
MW-3	05/19/15	4,932.98	9.82	4923.16	
MW-3	01/17/17	4,932.98	9.98	4923.00	
MW-3	12/20/17	4,932.98	9.87	4923.11	
MW-3	10/10/19	4,932.98			*Could not locate well*
MW-3	06/17/21	4,932.98			*Destroyed*
MW-38	04/22/04	4,931.87	8.62	4923.25	
MW-38	07/28/05	4,931.87	8.56	4923.31	
MW-38	11/03/05	4,931.87	8.70	4923.17	
MW-38	01/31/06	4,931.87	9.49	4922.38	
MW-38	05/17/06	4,931.87	8.90	4922.97	
MW-38	09/25/06	4,931.87	8.97	4922.90	
MW-38	12/26/06	4,931.87	9.19	4922.68	
MW-38	02/21/12	4,931.87	9.38	4922.49	
MW-38	08/22/12	4,931.87	8.88	4922.99	
MW-38	03/25/13	4,931.87	9.15	4922.72	
MW-38	10/01/13	4,931.87	8.85	4923.02	
MW-38	05/02/14	4,931.87	8.96	4922.91	
MW-38	11/17/14	4,931.87	9.18	4922.69	
MW-38	05/19/15	4,931.87	8.78	4923.09	
MW-38	01/17/17	4,931.87	8.96	4922.91	
MW-38	12/20/17	4,931.87	8.83	4923.04	
MW-38	10/10/19	4,931.87	8.36	4923.51	
MW-38	06/17/21	4,931.87	8.58	4923.29	
MW-38	04/06/22	4,931.87	9.06	4922.81	
MW-38	03/08/23	4,931.87	9.29	4922.58	
MW-38	06/06/23	4,931.87	8.18	4923.69	
MW-38	09/06/23	4,931.87	8.93	4922.94	
MW-4	04/22/04	4,932.55	12.07	4920.48	
MW-4	07/28/05	4,932.55	12.03	4920.52	
MW-4	11/03/05	4,932.55	12.19	4920.36	
MW-4	01/31/06	4,932.55	12.94	4919.61	
MW-4	05/17/06	4,932.55	12.35	4920.20	
MW-4	09/25/06	4,932.55	12.42	4920.13	

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
MW-4	12/26/06	4,932.55	12.64	4919.91	
MW-4	02/21/12	4,932.55	12.81	4919.74	
MW-4	08/22/12	4,932.55	12.32	4920.23	
MW-4	03/25/13	4,932.55	12.64	4919.91	
MW-4	04/29/14	4,932.55			*Plugged*
MW-4R	05/02/14	4,933.42	10.56	4922.86	
MW-4R	11/17/14	4,933.42	10.74	4922.68	
MW-4R	05/19/15	4,933.42	10.36	4923.06	
MW-4R	01/17/17	4,933.42	10.57	4922.85	
MW-4R	12/20/17	4,933.42	10.39	4923.03	
MW-4R	10/10/19	4,933.42	9.94	4923.48	
MW-4R	06/17/21	4,933.42	10.13	4923.29	
MW-4R	04/06/22	4,933.42	10.68	4922.74	
MW-4R	03/08/23	4,933.42	10.87	4922.55	
MW-4R	06/06/23	4,933.42	9.76	4923.66	
MW-4R	09/06/23	4,933.42	10.52	4922.90	
MW-5	04/22/04	4,931.85	11.44	4920.41	
MW-5	07/28/05	4,931.85	10.78	4921.07	
MW-5	11/03/05	4,931.85	11.00	4920.85	
MW-5	01/31/06	4,931.85	11.83	4920.02	
MW-5	05/17/06	4,931.85	11.12	4920.73	
MW-5	09/25/06	4,931.85	11.15	4920.70	
MW-5	12/26/06	4,931.85	11.54	4920.31	
MW-5	02/21/12	4,931.85			*Dry*
MW-5	08/22/12	4,931.85			*Dry*
MW-5	03/25/13	4,931.85			*Dry*
MW-5	10/01/13	4,931.85			*Dry*
MW-5	05/01/14	4,931.85			*Plugged*
MW-6	04/22/04	4,931.51	11.04		
MW-6	07/28/05	4,931.51	11.03		
MW-6	11/03/05	4,931.51	11.22		
MW-6	01/31/06	4,931.51	11.92		
MW-6	05/17/06	4,931.51	11.31		
MW-6	09/25/06	4,931.51	11.37		
MW-6	12/26/06	4,931.51	11.89		
MW-6	02/21/12	4,931.51	11.58		
MW-6	08/22/12	4,931.51	13.00		
MW-6	03/25/13	4,931.51	13.14		
MW-6	10/01/13	4,931.51	13.18		
MW-6	04/29/14	4,931.51			*Plugged*
MW-6R	05/02/14	4,934.26	11.36	4922.90	
MW-6R	11/17/14	4,934.26			*Destroyed*
MW-6RR	12/22/14	4,933.90	11.20	4922.70	
MW-6RR	05/19/15	4,933.90	10.73	4923.17	
MW-6RR	01/17/17	4,933.90	10.90	4923.00	
MW-6RR	12/20/17	4,933.90	10.78	4923.12	
MW-6RR	10/10/19	4,933.90	10.34	4923.56	
MW-6RR	06/17/21	4,933.90	10.50	4923.40	
MW-6RR	04/06/22	4,933.90	11.01	4922.89	
MW-6RR	03/08/23	4,933.90	11.29	4922.61	
MW-6RR	06/06/23	4,933.90	10.22	4923.68	
MW-6RR	09/06/23	4,933.90	10.88	4923.02	
NMW-1	04/22/04	4,932.63	9.24	4923.39	
NMW-1	07/28/05	4,932.63	9.22	4923.41	
NMW-1	11/03/05	4,932.63	9.31	4923.32	
NMW-1	01/31/06	4,932.63	10.70	4921.93	
NMW-1	05/17/06	4,932.63	9.53	4923.10	
NMW-1	09/25/06	4,932.63	9.62	4923.01	
NMW-1	12/26/06	4,932.63	9.75	4922.88	

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
NMW-1	02/21/12	4,932.63	9.93	4922.70	
NMW-1	08/22/12	4,932.63	9.48	4923.15	
NMW-1	03/25/13	4,932.63	9.75	4922.88	
NMW-1	10/01/13	4,932.63	9.41	4923.22	
NMW-1	05/02/14	4,932.63	9.55	4923.08	
NMW-1	11/17/14	4,932.63	9.72	4922.91	***
NMW-1	05/19/15	4,932.63	9.38	4923.25	
NMW-1	01/17/17	4,932.63	9.57	4923.06	
NMW-1	12/20/17	4,932.63	9.39	4923.24	
NMW-1	10/10/19	4,932.63	8.96	4923.67	
NMW-1	06/17/21	4,932.63	9.16	4923.47	
NMW-1	04/06/22	4,932.63	9.72	4922.91	
NMW-1	03/08/23	4,932.63	9.87	4922.76	
NMW-1	06/06/23	4,932.63	8.79	4923.84	
NMW-1	09/06/23	4,932.63	9.49	4923.14	
NMW-2	04/22/04	4,930.38	10.03	4920.35	
NMW-2	07/28/05	4,930.38			*Destroyed*
NMW-3	04/22/04	4,930.56	10.28		
NMW-3	07/28/05	4,930.56			*Destroyed*
NMW-4	04/22/04	4,929.02	10.33	4918.69	
NMW-4	07/28/05	4,929.02			*NM*
NMW-4	11/03/05	4,929.02			*NM*
NMW-4	01/31/06	4,929.02			*NM*
NMW-4	05/17/06	4,929.02			*NM*
NMW-4	09/25/06	4,929.02	9.59	4919.43	
NMW-4	12/26/06	4,929.02	10.94	4918.08	
NMW-4	02/21/12	4,929.02	10.12	4918.90	
NMW-4	08/22/12	4,929.02	9.59	4919.43	
NMW-4	03/25/13	4,929.02	9.90	4919.12	
NMW-4	10/01/13	4,929.02	9.59	4919.43	
NMW-4	04/30/14	4,929.02			*Plugged*
NMW-4R	05/02/14	4,932.53	9.91	4922.62	
NMW-4R	11/17/14	4,932.53	10.12	4922.41	
NMW-4R	05/19/15	4,932.53	9.68	4922.85	
NMW-4R	01/17/17	4,932.53	9.88	4922.65	
NMW-4R	12/20/17	4,932.53	9.75	4922.78	
NMW-4R	10/10/19	4,932.53	9.24	4923.29	
NMW-4R	06/17/21	4,932.53	9.47	4923.06	
NMW-4R	04/06/22	4,932.53	10.03	4922.50	
NMW-4R	03/08/23	4,932.53	10.20	4922.33	
NMW-4R	06/06/23	4,932.53	9.09	4923.44	
NMW-4R	09/06/23	4,932.53	9.84	4922.69	
RNMW-2	07/28/05	4,933.45	10.33	4923.12	
RNMW-2	11/03/05	4,933.45	10.44	4923.01	
RNMW-2	01/31/06	4,933.45	11.23	4922.22	
RNMW-2	05/17/06	4,933.45	10.64	4922.81	
RNMW-2	09/25/06	4,933.45	10.72	4922.73	
RNMW-2	12/26/06	4,933.45	10.92	4922.53	
RNMW-2	02/21/12	4,933.45	11.09	4922.36	
RNMW-2	08/22/12	4,933.45	10.61	4922.84	
RNMW-2	03/25/13	4,933.45	10.90	4922.55	
RNMW-2	10/01/13	4,933.45	10.57	4922.88	
RNMW-2	05/02/14	4,933.45	10.70	4922.75	
RNMW-2	11/17/14	4,933.45	10.87	4922.58	***
RNMW-2	05/19/15	4,933.45	10.27	4923.18	
RNMW-2	01/17/17	4,933.45	10.44	4923.01	
RNMW-2	12/20/17	4,933.45	10.31	4923.14	
RNMW-2	10/10/19	4,933.45	9.88	4923.57	
RNMW-2	06/17/21	4,933.45	10.04	4923.41	

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
RNMW-2	04/06/22	4,933.45	10.62	4922.83	**
RNMW-2	03/08/23	4,933.45	10.79	4922.66	
RNMW-2	06/06/23	4,933.45	9.72	4923.73	
RNMW-2	09/06/23	4,933.45	10.39	4923.06	
RNMW-3	07/28/05	4,933.22	9.89	4923.33	
RNMW-3	11/03/05	4,933.22	9.99	4923.23	
RNMW-3	01/31/06	4,933.22	10.80	4922.42	
RNMW-3	05/17/06	4,933.22	10.20	4923.02	
RNMW-3	09/25/06	4,933.22	10.27	4922.95	
RNMW-3	12/26/06	4,933.22	10.49	4922.73	
RNMW-3	02/21/12	4,933.22	10.65	4922.57	
RNMW-3	08/22/12	4,933.22	10.17	4923.05	
RNMW-3	03/25/13	4,933.22	10.45	4922.77	
RNMW-3	10/01/13	4,933.22	10.12	4923.10	
RNMW-3	05/02/14	4,933.22	10.23	4922.99	
RNMW-3	11/17/14	4,933.22	10.45	4922.77	
RNMW-3	05/19/15	4,933.22	10.06	4923.16	
RNMW-3	01/17/17	4,933.22	10.22	4923.00	
RNMW-3	12/20/17	4,933.22	10.09	4923.13	
RNMW-3	10/10/19	4,933.22	9.65	4923.57	
RNMW-3	06/17/21	4,933.22	9.84	4923.38	
RNMW-3	04/06/22	4,933.22	10.38	4922.84	**
RNMW-3	03/08/23	4,933.22	10.59	4922.63	
RNMW-3	06/06/23	4,933.22	9.49	4923.73	
RNMW-3	09/06/23	4,933.22	10.22	4923.00	
W-34	04/22/04	4,928.70	7.92	4920.78	
W-34	07/28/05	4,928.70	8.09	4920.61	
W-34	11/03/05	4,928.70	8.11	4920.59	
W-34	01/31/06	4,928.70	8.92	4919.78	
W-34	05/17/06	4,928.70	8.40	4920.30	
W-34	09/25/06	4,928.70	8.51	4920.19	
W-34	12/26/06	4,928.70	8.61	4920.09	
W-34	02/21/12	4,928.70	8.77	4919.93	
W-34	08/22/12	4,928.70	8.33	4920.37	
W-34	03/25/13	4,928.70	8.61	4920.09	
W-34	10/01/13	4,928.70			*Paved over*
W-34	05/01/14	4,928.70			*Plugged*
W-35	04/22/04	4,931.50	8.14	4923.36	
W-35	07/28/05	4,931.50	8.29	4923.21	
W-35	11/03/05	4,931.50	8.31	4923.19	
W-35	01/31/06	4,931.50	9.14	4922.36	
W-35	05/17/06	4,931.50	8.64	4922.86	
W-35	09/25/06	4,931.50	8.74	4922.76	
W-35	12/26/06	4,931.50	8.83	4922.67	
W-35	02/21/12	4,931.50	8.99	4922.51	
W-35	08/22/12	4,931.50	8.55	4922.95	
W-35	03/25/13	4,931.50	8.85	4922.65	
W-35	10/01/13	4,931.50			*Paved over*
W-35	05/02/14	4,931.50	8.65	4922.85	
W-35	11/17/14	4,931.50	8.78	4922.72	
W-35	05/19/15	4,931.50	8.44	4923.06	
W-35	01/17/17	4,931.50	8.56	4922.94	
W-35	12/20/17	4,931.50	8.47	4923.03	
W-35	10/10/19	4,931.50			*Destroyed*
W-36	04/22/04	4,932.00	8.31	4923.69	
W-36	07/28/05	4,932.00	8.48	4923.52	
W-36	11/03/05	4,932.00	8.50	4923.50	
W-36	01/31/06	4,932.00	9.30	4922.70	
W-36	05/17/06	4,932.00	8.79	4923.21	

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
W-36	09/25/06	4,932.00	8.92	4923.08	
W-36	12/26/06	4,932.00	8.97	4923.03	
W-36	02/21/12	4,932.00	9.15	4922.85	
W-36	08/22/12	4,932.00	8.72	4923.28	
W-36	03/25/13	4,932.00	9.01	4922.99	
W-36	10/01/13	4,932.00			*Paved over*
W-36	05/02/14	4,932.00	8.80	4923.20	
W-36	11/17/14	4,932.00	8.97	4923.03	
W-36	05/19/15	4,932.00	8.62	4923.38	
W-36	01/17/17	4,932.00	8.76	4923.24	
W-36	12/20/17	4,932.00	8.63	4923.37	
W-36	10/10/19	4,932.00			*Destroyed*
W-37	04/22/04	4,930.10	9.26	4920.84	
W-37	07/28/05	4,930.10	9.43	4920.67	
W-37	11/03/05	4,930.10	9.49	4920.61	
W-37	01/31/06	4,930.10	10.22	4919.88	
W-37	05/17/06	4,930.10	9.74	4920.36	
W-37	09/25/06	4,930.10	9.90	4920.20	
W-37	12/26/06	4,930.10	8.78	4921.32	
W-37	02/21/12	4,930.10	10.09	4920.01	
W-37	08/22/12	4,930.10	9.67	4920.43	
W-37	03/25/13	4,930.10	9.97	4920.13	
W-37	10/01/13	4,930.10			*Paved over*
W-37	05/01/14	4,930.10			*Plugged*

NOTES:
The top of casing elevation for wells MW-2 and MW-3 were adjusted by -0.17 and -0.89, respectively, from the survey point on top of steel plate on pipe.
Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)
Vertical Control to NAVD88 Datum in feet above mean sea level
Measured in feet below the top of casing at survey point on north side of well
** = Well Destroyed during source area excavation*
*** = Replacement well installed 4/27/05*
**** =Surface completion/casing damaged at time of measurement*
NM = not measured

TABLE 2. GROUNDWATER GEOCHEMICAL PARAMETERS
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units	*dd/mm/yy*	*S.U.*	*µS/cm*	*°C*	*mg/L*	*mV*	
Well	**Date**	**pH**	**SpC**	**Temp**	**DO**	**ORP**	**Notes**
BB-2	02/21/12		798	17.5	2.32		
BB-2	08/23/12	7.61	1,002	26.9	1.19		
BB-2	03/25/13	6.43	1,009	17.1	1.47		
BB-2	10/01/13	6.27	952	23.2			
BB-2	05/01/14	7.77	945	17.7	1.74		
BB-2	11/17/14	7.37	862	19.8	1.92		
BB-2	05/19/15	7.44	882	18.1	2.39		
BB-2	01/17/17	7.47	838	18.7	2.40		
BB-2	12/20/17	7.26	824	20.5	1.11	189	
BB-2	10/10/19	7.28	864	22.4			
BB-2	06/06/23	7.49	603	19.4	1.15	6	
MW-1	02/21/12						*Dry*
MW-1	08/22/12						*Dry*
MW-1	03/25/13						*Dry*
MW-1	10/01/13						*Dry*
MW-1	04/01/14						*Plugged*
MW-1R	05/01/14	7.80	803	19.4	1.55		
MW-1R	11/17/14	7.56	913	21.8	1.18		
MW-1R	05/19/15						*Bailed dry*
MW-1R	01/17/17						*Bailed dry*
MW-1R	12/20/17						*Not enough water*
MW-1R	10/10/19	7.42	1,041	23.4			
MW-1R	06/17/21	7.54	823	20.4	1.86	26	
MW-1R	06/17/21	7.54	823	20.4	1.86	26	
MW-1R	04/06/22	7.16	1,786	18.4	1.98	-117	
MW-1R	03/08/23	7.36	562	18.6	1.22	26	
MW-1R	06/06/23	7.32	557	19.9	1.08	-19	
MW-1R	09/06/23	7.70	1,314	24.1	0.21	-5	
MW-2	02/21/12	7.36	761	19.7	1.35		
MW-2	08/22/12	8.17	950	24.5	1.31		
MW-2	03/25/13	6.29	1,111	18.4	1.04		
MW-2	10/01/13	6.31	1,023	25.5			
MW-2	05/01/14	7.63	981	18.8	1.40		
MW-2	11/17/14	7.10	1,009	22.9	1.70		
MW-2	05/19/15	7.21	816	19.1	1.86		
MW-2	01/17/17	7.11	1,060	20.6	2.02		
MW-2	12/20/17	6.82	1,225	22.6	1.14	206	
MW-2	10/10/19	7.19	960	24.1			
MW-3	02/21/12		898	18.4	1.15		
MW-3	08/23/12	8.48	963	20.9	1.07		
MW-3	03/25/13	6.64	1,021	17.6	0.97		
MW-3	10/10/13	7.23	942	22.6	1.15		
MW-3	05/01/14	7.70	1,043	19.1	1.77		
MW-3	11/17/14	7.45	941	20.9	1.35		
MW-3	05/19/15	7.52	994	19.8	3.33		
MW-3	01/17/17	7.37	907	20.6	1.55		
MW-3	12/20/17	7.21	934	21.8	0.48	164	
MW-3	10/10/19						*Could not locate well*
MW-4	02/22/12	6.09	981	13.8	1.21		
MW-4	08/23/12	8.11	980	24.9	1.38		
MW-4	03/25/13	6.42	946	18.0	1.20		
MW-4	10/01/13						*Destroyed*
MW-4	04/01/14						*Plugged*
MW-4R	05/01/14	7.69	922	20.0	2.18		
MW-4R	11/17/14	7.50	649	21.6	0.85		
MW-4R	05/19/15	7.60	664	19.8	1.32		
MW-4R	01/17/17	7.35	864	20.3	1.73		
MW-4R	12/20/17	7.35	771	22.5	1.04	193	
MW-4R	10/10/19	7.48	779	22.6			
MW-4R	06/14/21	7.42	832	21.2	0.80	111	
MW-4R	06/17/21	7.42	832	21.2	0.80	111	
MW-4R	04/06/22	7.21	1,418	19.9	1.06	-78	
MW-4R	03/08/23	7.25	542	19.1	0.61		
MW-4R	06/06/23	7.40	567	20.2	1.47	0	
MW-4R	09/06/23	7.45	1,387	24.0	0.26	-34	
MW-5	02/21/12						*Dry*
MW-5	08/22/12						*Dry*
MW-5	03/25/13						*Dry*

TABLE 2. GROUNDWATER GEOCHEMICAL PARAMETERS
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units	*dd/mm/yy*	*S.U.*	*µS/cm*	*°C*	*mg/L*	*mV*	
Well	**Date**	**pH**	**SpC**	**Temp**	**DO**	**ORP**	**Notes**
MW-5	10/01/13						*Dry*
MW-5	04/01/14						*Dry*
MW-6	02/22/12	6.37	631	15.6			
MW-6	04/01/14						*Dry*
MW-6	04/29/14						*Dry*
MW-6R	05/01/14	7.93	880	20.0	2.19		
MW-6R	11/17/14						*Destroyed*
MW-6RR	12/22/14	7.18	815	21.1	1.40		
MW-6RR	05/19/15	7.54	734	19.7	1.10		
MW-6RR	01/17/17	7.37	780	21.0	1.63		
MW-6RR	12/20/17	7.39	770	22.0	1.00	194	
MW-6RR	10/10/19	7.51	783	23.3			
MW-6RR	06/17/21	7.42	775	20.9	0.97	56	
MW-6RR	06/17/21	7.42	775	20.9	0.97	56	
MW-6RR	04/06/22	7.26	1,207	18.7	1.27	21	
MW-6RR	03/08/23	7.18	505	19.6	0.69	56	
MW-6RR	06/06/23	7.03	567	20.1	0.68	7	
MW-6RR	09/06/23	7.49	1,357	21.4	0.25	21	
MW-29	02/21/12		884	16.7	1.82	56	
MW-29	08/23/12	7.18	1,179	26.3	0.99	56	
MW-29	03/25/13	6.35	1,231	16.2	1.34	56	
MW-29	10/01/13	6.29	1,024	24.9		56	
MW-29	05/01/14					56	*Plugged*
MW-38	02/21/12		859	17.8	1.08	56	
MW-38	08/23/12	7.79	1,090	25.1	2.10	56	
MW-38	03/25/13	6.41	1,034	17.4	0.77	56	
MW-38	10/01/13	6.13	1,003	25.4		56	
MW-38	05/01/14	7.59	984	19.0	1.53	56	
MW-38	11/17/14	7.20	880	21.7	1.76	56	
MW-38	05/19/15	7.06	488	19.3	2.82	56	
MW-38	01/17/17	6.96	950	19.1	1.48	56	
MW-38	12/20/17	6.87	975	18.9	1.60	183	
MW-38	10/10/19	7.13	897	23.4			
MW-38	06/17/21	6.93	937	21.0	1.20	126	
MW-38	06/17/21	6.93	937	21.0	1.20	126	
MW-38	04/06/22	6.86	1,633	17.6	1.17	-8	
MW-38	03/08/23	7.19	720	18.0	0.98	126	
MW-38	06/06/23	7.07	647	20.4	1.01	20	
MW-38	09/06/23	7.04	1,546	24.8	0.30	13	
NMW-1	02/21/12		904	18.2	1.18		
NMW-1	08/23/12	8.43	1,066	24.1	1.11		
NMW-1	03/26/13	6.31	1,124	17.1	0.63		
NMW-1	10/01/13	6.30	1,091	26.0			
NMW-1	05/02/14	7.29	1,174	19.0	1.31		
NMW-1	11/17/14	7.09	986	23.1	1.06		
NMW-1	05/19/15	6.92	1,015	19.9	1.22		
NMW-1	01/17/17	7.03	948	20.1	1.42		
NMW-1	12/20/17	6.85	1,097	22.6	0.28	150	
NMW-1	10/10/19	7.03	889	25.5			
NMW-1	06/17/21	6.80	1,311	21.8	0.50	-9	
NMW-1	06/17/21	6.80	1,311	21.8	0.50	-9	
NMW-1	04/06/22	6.75	2,006	18.3	0.82	-135	
NMW-1	03/08/23	6.78	827	17.8	1.19	-9	
NMW-1	06/06/23	6.95	839	20.8	0.96	-56	
NMW-1	09/06/23	7.00	1,924	26.0	0.26	-114	
NMW-4	04/01/14					-9	*Plugged*
NMW-4R	05/01/14					-9	*Developed at 4 gpm. 180 gallons removed.*
NMW-4R	11/17/14	7.36	513	20.9	1.31	-9	
NMW-4R	05/19/15	7.44	784	19.2	2.12	-9	
NMW-4R	01/17/17	7.42	567	19.3	1.75	-9	
NMW-4R	12/20/17	7.28	433	21.4	0.37	192	
NMW-4R	10/10/19	6.82	529	22.6			
NMW-4R	06/17/21	7.32	615	20.4	2.52	65	
NMW-4R	06/17/21	7.32	615	20.4	2.52	65	
NMW-4R	04/06/22	7.05	1,307	19.2	1.05	-54	
NMW-4R	03/08/23	7.25	542	19.1	0.61	65	
NMW-4R	06/06/23	7.37	524	20.2	1.16	-41	
NMW-4R	09/06/23	7.16	759	22.2	0.26	21	
RNMW-2	02/21/12		852	19.3	1.14		
RNMW-2	08/22/12	7.84	1,176	23.1	1.28		

TABLE 2. GROUNDWATER GEOCHEMICAL PARAMETERS
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units	*dd/mm/yy*	*S.U.*	*µS/cm*	*°C*	*mg/L*	*mV*	
Well	**Date**	**pH**	**SpC**	**Temp**	**DO**	**ORP**	**Notes**
RNMW-2	03/26/13	6.43	1,048	18.6	0.74		
RNMW-2	10/01/13	6.49	1,051	24.5			
RNMW-2	05/02/14	7.47	1,053	19.2	1.30		
RNMW-2	11/17/14	7.32	871	22.2	0.56		
RNMW-2	05/19/15	7.35	847	19.7	1.33		
RNMW-2	01/17/17	7.26	933	20.4	1.78		
RNMW-2	12/20/17	7.04	1,232	22.0	1.30	165	
RNMW-2	10/10/19	7.13	1,015	24.5			
RNMW-2	06/17/21	7.08	967	21.4	1.20	7	
RNMW-2	06/17/21	7.08	967	21.4	1.20	7	
RNMW-2	04/06/22	6.86	1,709	18.9	0.83	-71	
RNMW-2	03/08/23	6.92	1,235	18.2	0.57	7	
RNMW-2	06/06/23	6.64	617	20.2	0.72	19	
RNMW-2	09/06/23	7.36	1,680	24.1	0.31	36	
RNMW-3	02/21/12		976	19.1	1.52		
RNMW-3	08/23/12	8.28	1,128	25.2	1.21		
RNMW-3	03/26/13	6.71	1,002	18.5	0.70		
RNMW-3	10/01/13	6.37	1,065	25.0			
RNMW-3	05/02/14	7.53	1,009	19.7	1.54		
RNMW-3	11/17/14	7.32	1,007	22.5	1.48		
RNMW-3	05/19/15	7.36	889	20.3	1.31		
RNMW-3	01/17/17	7.25	628	20.8	2.01		
RNMW-3	12/20/17	7.23	1,117	21.2	0.40	178	
RNMW-3	10/10/19	7.32	1,038	24.9			
RNMW-3	06/17/21	7.20	1,087	21.7	1.40	51	
RNMW-3	06/17/21	7.20	1,087	21.7	1.40	51	
RNMW-3	04/06/22	7.02	1,667	19.0	1.02	-63	
RNMW-3	03/08/23	7.05	920	18.0	0.73	51	
RNMW-3	06/06/23	7.14	680	20.8	0.77	-19	
RNMW-3	09/06/23	7.41	1,840	24.7	0.35	3	
W-34	02/21/12		820	18.5	1.07		
W-34	08/22/12	7.59	822	23.4	1.02		
W-34	03/25/13	6.55	1,129	17.3	0.77		
W-34	10/01/13						*Paved over*
W-34	05/01/14						*Plugged*
W-35	02/21/12		852	17.7	0.97		
W-35	08/22/12	7.73	1,091	25.0	0.96		
W-35	03/25/13	6.63	1,238	16.7	0.84		
W-35	10/01/13						*Paved over. Uncovered in May 2014*
W-35	05/02/14	7.44	1,148	19.5	0.91		*Uncovered*
W-35	11/17/14	7.28	1,065	22.6	2.48		
W-35	05/19/15	7.37	889	21.0	1.78		
W-35	01/17/17	7.31	818	19.6	1.69		
W-35	12/20/17	7.25	960	22.1	0.92	189	
W-35	10/10/19						*Could not locate well*
W-36	02/21/12		863	18.0	1.25		
W-36	08/22/12	8.14	976	24.6	1.06		
W-36	03/25/13	6.24	1,143	17.5	0.75		
W-36	10/01/13						*Paved over. Uncovered in May 2014*
W-36	05/02/14	7.39	878	18.8	3.03		
W-36	11/17/14	7.24	847	22.1	1.66		
W-36	05/19/15	7.22	677	19.6	1.63		
W-36	01/17/17	7.19	862	19.6	1.82		
W-36	12/20/17	7.20	990	21.8	0.55	184	
W-36	10/10/19						*Could not locate well*
W-37	02/21/12		819	19.9	1.21		
W-37	08/22/12	6.82	1,012	24.3	1.15		
W-37	03/25/13	6.86	1,085	19.1	1.04		
W-37	10/01/13						*Paved over*
W-37	05/01/14						*Plugged*

NOTES:
DO = Dissolved oxygen in milligrams per liter (mg/L)
ORP = Oxidation-Reduction Potential in millivolts (mVs)
pH = Potential of Hydrogen, standard units (S.U.)
SpC = Specific conductance in microsiemens per centimeter (µ S/cm)

TABLE 3. ANALYTES, METHODS, CONTAINERS, PRESERVATION, HANDLING, AND HOLDING TIME
ATEX 213, ALBUQUERQUE, NEW MEXICO

Target Analytes	Matrix	Analytical Method	Sample Container	Preservative and Handling	Holding Time
Volatile Organic Compounds	Groundwater	EPA 8260B	3 x 40-mL glass vials	Mercuric Chloride; Place on Ice	14 days
Nitrate	Groundwater	EPA 300.0	125-mL plastic	Sulfuric Acid	48 hours unpreserved 28 days preserved
Sulfate	Groundwater	EPA 300.0	125-mL plastic	Place on Ice	28 days
Total Dissolved Solids	Groundwater	SM2540C Modified	250-mL plastic	Place on Ice	7 days

Notes:
°C = Degrees Celcius
EPA = U.S. Environmental Protection Agency
mL = Milliliters
SM = Standard Method

TABLE 4. GROUNDWATER ANALYTICAL RESULTS
ATEX 213, ALBUQUERQUE, NEW MEXICO

NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*		*5*	*0.05*				
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**BTEXMN**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
BB-2	01/01/98	5.8	< 5.0	50	21	1,200		1,282						
BB-2	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
BB-2	07/29/05	< 1.0	< 1.0	4.6	< 1.0	< 2.0	7.6	17						
BB-2	09/25/06	< 1.0	< 1.0	1.1	< 1.0	< 1.5	16	21						
BB-2	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	290	< 10	305						
BB-2	08/23/12	< 1.0	< 1.0	1.3	< 1.5	94	17	116						
BB-2	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	150	< 10	165						
BB-2	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	53	< 10	68						
BB-2	05/01/14	< 1.0	< 1.0	< 1.0	< 1.5	17	< 10	32						
BB-2	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	26	< 10	41						
BB-2	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	27	3.9	35						
BB-2	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	41	3.9	49	< 1.0	< 1.0				
BB-2	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	20	4.2	29	< 1.0	< 1.0				
BB-2	10/10/19	< 1.0	< 1.0	3.8	< 1.5	17	232	256	< 1.0	< 1.0				
BB-2	06/17/21							0						*Obstruction*
BB-2	06/06/23	< 2.0	< 2.0	< 2.0	< 3.0	3.4	< 20	32	< 2.0	< 2.0				
MW-1	01/01/98	< 5.0	110	320	370	2,200		3,005						
MW-1	04/22/04	< 1.0	< 1.0	4.8	< 1.0	< 1.0	4.3	13	< 1.0	< 0.010				
MW-1	07/28/05							0						*Dry*
MW-1	11/03/05							0						*Dry*
MW-1	01/31/06							0						*Dry*
MW-1	05/17/06							0						*Dry*
MW-1	09/25/06							0						*Dry*
MW-1	12/26/06							0						*Dry*
MW-1	02/21/12							0						*Dry*
MW-1	08/22/12							0						*Dry*
MW-1	10/01/13							0						*Dry*
MW-1	04/29/14							0						*Plugged*
MW-1R	05/01/14	< 10	< 10	440	260	< 10	534	1,264						
MW-1R	11/17/14	< 1.0	1.6	50	4.6	< 1.0	60	118						
MW-1R	05/19/15	< 1.0	< 1.0	21	< 1.5	< 1.0	13	39						
MW-1R	01/17/17	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 20	31	< 1.0	< 1.0				
MW-1R	12/20/17							0						*Dry*
MW-1R	10/10/19	< 1.0	< 1.0	1.5	< 1.5	< 1.0	13	19	< 1.0	< 1.0				
MW-1R	06/17/21	< 1.0	< 1.0	2.2	< 1.5	< 1.0	37	43	< 1.0	< 1.0				
MW-1R	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	4.3	9.8	< 1.0	< 1.0	< 0.50	200		
MW-1R	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0	< 0.50	110	478	*Adjusted results for plotting*
MW-1R	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0				*Adjusted results for plotting*
MW-1R	09/06/23	10	< 20	< 1.0	< 1.5	< 1.0	< 10	44	< 1.0	< 1.0				*Adjusted results for plotting*
MW-1R Diluted	03/08/23	< 50	< 50	< 50	< 75	< 50	< 500	775	< 1.0	< 1.0				*Actual 50-x diluted reported results. Matrix interference due to presence of PetroFix®*
MW-1R Diluted	06/06/23	< 8.0	< 20	< 20	< 30	< 20	< 500	598	< 8.0	< 20				*Actual 20-x diluted reported results. Matrix interference due to presence of PetroFix ®*
MW-1R Diluted	09/06/23	10	< 20	< 20	< 30	< 20	< 500	600	< 20	< 20				*Actual 20-x diluted reported results. Matrix interference due to presence of PetroFix ®*
MW-2	01/01/98	1.9	< 5.0	0.7	0.7	10		18						
MW-2	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15	< 1.0	< 0.010				
MW-2	07/28/05	< 1.0	< 1.0	< 1.0	< 1.0	3.6	< 10	18	< 1.0	< 0.010				
MW-2	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15	< 1.0	< 0.010				
MW-2	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	1.9	< 10	18	< 1.0	< 0.010				
MW-2	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	2.5	< 10	19	< 1.0	< 0.010				
MW-2	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	3.0	< 10	18						
MW-2	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	05/01/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0				
MW-2	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0				
MW-2	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0				
MW-2	06/17/21							0						*Could not locate well*
MW-3	01/01/98	2,400	110	320	370	2,200		5,400						
MW-3	04/22/04	100	< 10	25	11	320	98	564	< 10	< 0.010				
MW-3	07/28/05	52	< 10	14	< 10	410	90	586	< 10	< 0.010				
MW-3	11/03/05	180	9.7	58	47	920	438	1,653	< 5.0	< 0.010				
MW-3	01/31/06	60	< 20	83	110	500	170	943	< 20	< 0.010				
MW-3	05/17/06	46	6.5	29	55	230	142	509	< 5.0	< 0.010				
MW-3	09/25/06	62	11	37	100	230	180	620	< 5.0	< 0.010				
MW-3	12/26/06	160	58	220	460	530	610	2,038	< 5.0	< 0.010				
MW-3	02/21/12	7.4	< 5.0	37	55	< 5.0	142	251						
MW-3	08/23/12	6.4	< 5.0	19	28	< 5.0	60	123						

TABLE 4. GROUNDWATER ANALYTICAL RESULTS
ATEX 213, ALBUQUERQUE, NEW MEXICO

NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*		*5*	*0.05*				
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**BTEXMN**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
MW-3	03/26/13	3.7	1.8	18	22	< 1.0	**108**	155						
MW-3	05/01/14	< 1.0	< 1.0	3.6	2.4	< 1.0	25	34	< **5.0**	< 0.010				
MW-3	11/17/14	3.5	< 2.0	17	8.6	< 2.0	**119**	152						
MW-3	05/19/15	2.3	1.4	12	8.4	< 1.0	**127**	152						
MW-3	01/17/17	1.7	1.6	16	7.2	< 1.0	**166**	194	< 2.0	< **2.0**				
MW-3	12/20/17	2.4	1.4	17	7.1	< 1.0	**190**	219	< 1.0	< **1.0**				
MW-4	04/22/04	**590**	< 10	< 10	< 10	**1,400**	< **100**	2,120	< **10**	< 0.010				
MW-4	07/28/05	< 1.0	< 1.0	< 1.0	< 1.0	**720**	< 10	734	< 1.0	< 0.010				
MW-4	11/03/05	< **5.0**	< 5.0	< 5.0	< 5.0	**500**	< **50**	570	< **5.0**	< 0.010				
MW-4	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	**220**	< 10	234	< 1.0	< 0.010				
MW-4	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	**180**	< 10	196	< 1.0	< 0.010				
MW-4	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	**580**	< 10	596	< 1.0	< 0.010				
MW-4	12/26/06	**93**	< 10	< 10	< 30	**790**	< **100**	1,033	< **10**	< 0.010				
MW-4	02/22/12	< 1.0	< 1.0	< 1.0	< 1.5	18	< 10	33						
MW-4	08/23/12	< 1.0	< 1.0	< 1.0	< 1.5	46	< 10	61						
MW-4	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	62	< 10	77						
MW-4	10/01/13							0						*Destroyed*
MW-4	04/29/14							0	< **10**	< 0.010				*Plugged*
MW-4R	05/01/14	**29**	< 1.0	3.8	< 1.5	55	**65**	155						
MW-4R	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	8.0	< 10	23						
MW-4R	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	3.5	< 10	18						
MW-4R	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	7.0	< 10	22	< 1.0	< **1.0**				
MW-4R	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-4R	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-4R	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	1.3	< 10	16	< 1.0	< **1.0**				
MW-4R	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	1.7	< 10	16	< 1.0	< **1.0**	< 0.50	100		
MW-4R	03/08/23	1.7	< 1.0	< 1.0	< 1.5	4.3	< 10	20	< 1.0	< **1.0**	< 0.50	82	489	
MW-4R	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-4R	09/06/23	< 2.0	< 2.0	< 2.0	< 3.0	2.9	< 10	22	< 2.0	< **2.0**				
MW-5	06/01/94	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5		4.5						
MW-5	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	**280**	< 10	294	< 1.0	< 0.010				
MW-5	07/29/05	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 10	16	< 1.0	< 0.010				
MW-5	11/03/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15	< 1.0	< 0.010				
MW-5	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	**190**	< 10	204	< 1.0	< 0.010				
MW-5	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18	< 1.0	< 0.010				
MW-5	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18	< **10**	< 0.010				
MW-5	12/26/06	< 1.0	< 1.0	< 1.0	< 3.0	25	< 10	41						
MW-5	02/21/12							0						*Dry*
MW-5	08/22/12							0						*Dry*
MW-5	03/25/13							0						*Dry*
MW-5	10/01/13							0						*Dry*
MW-5	05/01/14							0	< **10**	< 0.010				*Plugged*
MW-6	04/23/04	**50**	< 10	14	15	**830**	**140**	1,059		< 0.010				
MW-6	07/29/05	**45**	< 20	< 20	< 20	**800**	**210**	1,115		< 0.010				
MW-6	11/03/05	**46**	< 5.0	28	16	**570**	**380**	1,045		< 0.010				
MW-6	01/31/06	**24**	< 10	20	13	**730**	**253**	1,050		< 0.010				
MW-6	05/17/06	**20**	< 10	11	< 30	**490**	**160**	721		< 0.010				
MW-6	09/25/06	**84**	< 5.0	32	15	**1,200**	**630**	1,966		< 0.010				
MW-6	12/26/06	**33**	< 10	16	< 30	**720**	**395**	1,204		< 0.010				
MW-6	02/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-6	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	1.8	< 10	16						
MW-6	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	1.1	< 10	16						
MW-6	10/01/13							0						*Dry*
MW-6	04/29/14							0		< 0.010				*Plugged*
MW-6R	05/01/14	1.6	< 1.0	6.6	< 1.5	6.2	**56**	72						
MW-6R	11/17/14							0						*Destroyed*
MW-6RR	12/22/14	< **5.0**	< 5.0	130	27	13	**262**	442	< **5.0**	< **5.0**				
MW-6RR	05/19/15	< 1.0	< 1.0	24	3.2	4.6	**39**	73						
MW-6RR	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	4.3	9.8						
MW-6RR	12/20/17	3.4	< 1.0	< 1.0	< 1.5	1.5	7.2	16	< 1.0	< **1.0**				
MW-6RR	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-6RR	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-6RR	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**	< 0.50	95		
MW-6RR	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**	< 0.50	100	433	
MW-6RR	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-6RR	09/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-29	06/01/94	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5		4.5						
MW-29	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	14	< 10	28						
MW-29	07/29/05	< 1.0	< 1.0	< 1.0	< 1.0	6.8	< 10	21						
MW-29	09/25/06	< 1.0	< 1.0	< 1.0	< 1.0	7.5	< 10	22						
MW-29	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-29	08/23/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						

TABLE 4. GROUNDWATER ANALYTICAL RESULTS
ATEX 213, ALBUQUERQUE, NEW MEXICO

NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*		*5*	*0.05*				
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**BTEXMN**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
MW-29	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-29	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-29	05/01/14							0						*Plugged*
MW-38	01/01/98	**46**	1.2	8.1	7.6	9.0		72						
MW-38	04/22/04	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 10	16						
MW-38	07/29/05	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
MW-38	11/03/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
MW-38	01/31/06	2.5	< 1.0	< 1.0	< 1.0	< 1.0	2.5	9.0						
MW-38	05/17/06	1.4	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18						
MW-38	09/25/06	1.5	< 1.0	< 1.0	< 3.0	< 1.5	3.1	11						
MW-38	12/26/06	**13**	< 1.0	2.5	< 3.0	< 1.5	12	33						
MW-38	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	08/23/12	1.5	< 1.0	< 1.0	< 1.5	1.2	15	21						
MW-38	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	05/01/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-38	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-38	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-38	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-38	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**	< 0.50	130		
MW-38	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**	< 0.50	120	604	
MW-38	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-38	09/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
NMW-1	01/01/98							0						*NAPL*
NMW-1	04/22/04	**990**	200	28	**1,100**	**580**	**272**	3,170						
NMW-1	07/28/05	**1,100**	390	< 50	**3,600**	**840**	**920**	6,900						
NMW-1	11/03/05	**710**	170	< 50	**640**	**480**	**190**	2,240						
NMW-1	01/31/06	**810**	56	< 50	**1,100**	**570**	**220**	2,806						
NMW-1	05/17/06	**340**	95	< 20	**1,700**	**320**	**840**	3,315						
NMW-1	09/25/06	**410**	< 10	< 10	86	**420**	**140**	1,076						
NMW-1	12/26/06	**950**	55	44	**900**	**750**	**760**	3,459						
NMW-1	02/21/12	**390**	< 10	33	38	**110**	**92**	673						
NMW-1	08/23/12	**490**	< 10	23	70	94	**48**	735						
NMW-1	03/26/13	**510**	17	22	71	**130**	**126**	876						
NMW-1	10/01/13	**290**	8.4	3.1	39	44	**52**	437						
NMW-1	05/02/14	**190**	1.6	5.9	6.3	35	25	264						
NMW-1	11/17/14	**52**	< 5.0	5.3	19	9.3	< 20	111						
NMW-1	05/19/15	**430**	11	100	140	62	**140**	883						
NMW-1	01/17/17	**220**	< 5.0	47	32	16	**59**	379	< **5.0**	< **5.0**				
NMW-1	12/20/17	**79**	1.0	3.0	4.7	11	23	122	< 1.0	< **1.0**				
NMW-1	10/10/19	**84**	1.0	3.6	13	12	22	135	< 1.0	< **1.0**				
NMW-1	06/17/21	**56**	< 1.0	3.1	< 1.5	11	14	87	< 1.0	< **1.0**				
NMW-1	04/06/22	**32**	< 1.0	1.4	3.4	4.5	8.4	51	< 1.0	< **1.0**	< 0.50	200		
NMW-1	03/08/23	**42**	< 2.0	< 2.0	< 3.0	8.0	5.4	62	< 2.0	< **2.0**	< 0.50	140	704	
NMW-1	06/06/23	**45**	< 2.0	2.5	< 3.0	8.3	14	75	< 2.0	< **2.0**	< 0.50	140		
NMW-1	09/06/23	**41**	< 2.0	< 2.0	< 3.0	5.4	11	64	< 2.0	< **2.0**				
NMW-4	06/01/94	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5		4.5						
NMW-4	04/23/04	< 1.0	< 1.0	< 1.0	< 1.0	2.7	< 10	17						
NMW-4	07/29/05	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 10	16						
NMW-4	11/03/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
NMW-4	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
NMW-4	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	9.7	< 10	26						
NMW-4	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18						
NMW-4	12/26/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18						
NMW-4	02/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
NMW-4	08/23/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
NMW-4	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
NMW-4	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
NMW-4	04/30/14							0						*Plugged*
NMW-4R	05/01/14	**8.0**	2.6	< 1.0	< 1.5	11	< 10	34						
NMW-4R	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
NMW-4R	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	18	< 10	33						
NMW-4R	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	2.0	< 10	17	< 1.0	< **1.0**				
NMW-4R	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
NMW-4R	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
NMW-4R	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	3.1	< 10	18	< 1.0	< **1.0**				
NMW-4R	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	1.9	< 10	16	< 1.0	< **1.0**	< 0.50	91		
NMW-4R	03/08/23	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 20	31	< 2.0	< **2.0**	< 0.50	82	441	
NMW-4R	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	3.1	< 10	18	< 1.0	< **1.0**				

TABLE 4. GROUNDWATER ANALYTICAL RESULTS
ATEX 213, ALBUQUERQUE, NEW MEXICO

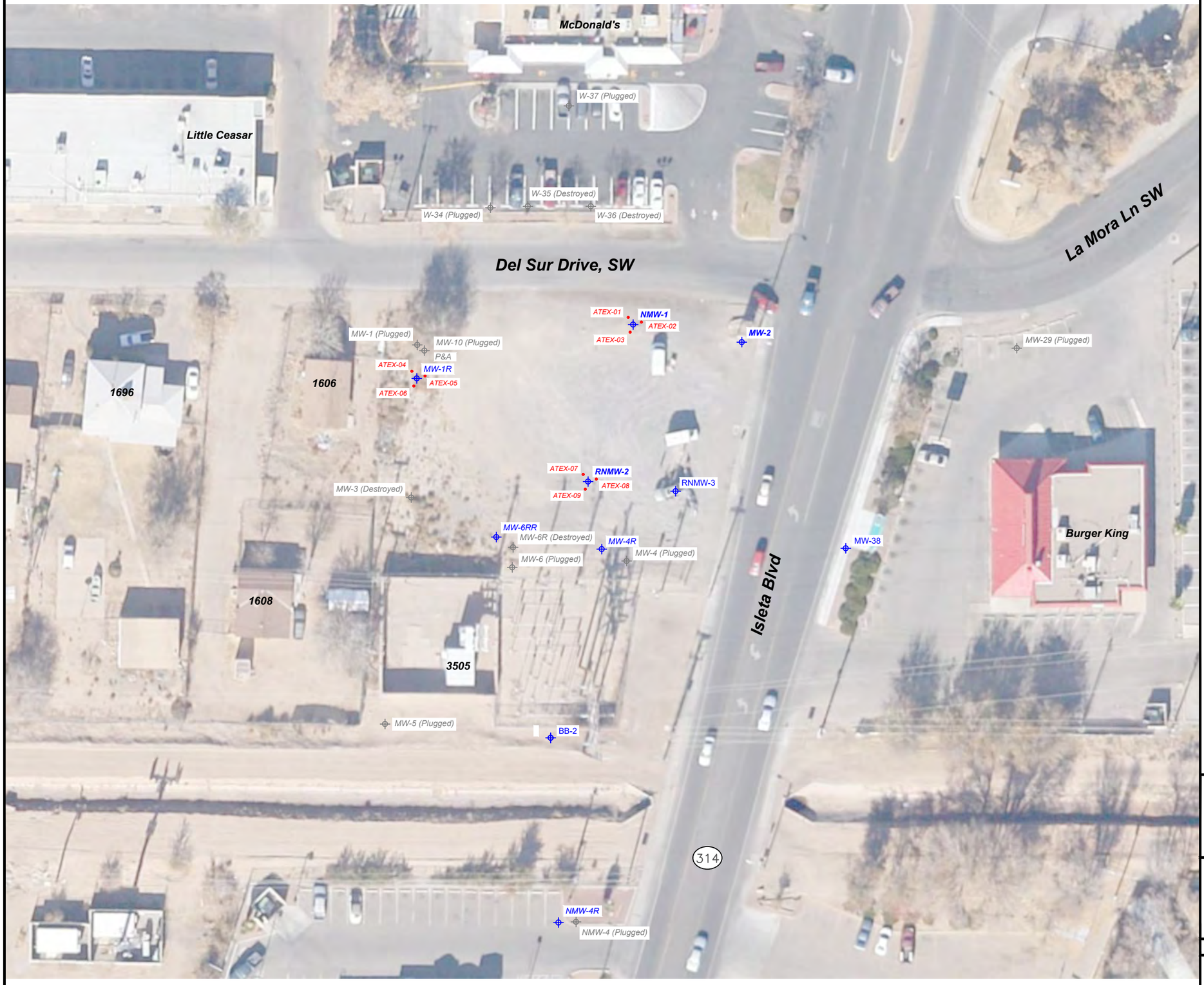
NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*		*5*	*0.05*				
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**BTEXMN**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
NMW-4R	09/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
W-34	01/01/98	1.2	< 5.0	7.6	7.2	< 2.5		24						
W-34	05/06/04	< 1.0	< 1.0	6.7	3.4	< 1.0	< 10	23						
W-34	07/28/05	< 1.0	< 1.0	3.7	1.3	< 1.0	< 10	18						
W-34	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18						
W-34	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-34	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-34	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-34	10/01/13							0						*Paved over*
W-34	05/01/14							0						*Plugged*
W-35	01/01/98	< **5.0**	190	**1,700**	**5,600**	< 10		7,505						
W-35	05/06/04	< 1.0	< 1.0	110	96	< 1.0	**164**	373						
W-35	07/28/05	< **5.0**	< 5.0	250	42	< 5.0	**400**	707						
W-35	09/25/06	< 1.0	< 1.0	12	< 3.0	< 1.5	**188**	207						
W-35	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-35	08/22/12	< 1.0	< 1.0	6.9	< 1.5	< 1.0	**55**	67						
W-35	03/25/13	< 1.0	< 1.0	32	< 1.5	< 1.0	**399**	436						
W-35	10/01/13							0						*Paved over*
W-35	05/02/14	< 1.0	< 1.0	7.5	< 1.5	< 1.0	**124**	136						
W-35	11/17/14	< 1.0	< 1.0	15	< 1.5	< 1.0	**99**	118						
W-35	05/19/15	< 1.0	< 1.0	3.6	< 1.5	< 1.0	**45**	53						
W-35	01/17/17	< 1.0	< 1.0	16	< 1.5	< 1.0	**525**	546	< 1.0	< **1.0**				
W-35	12/20/17	< 2.0	< 2.0	5.2	< 3.0	< 2.0	**128**	142	< 2.0	< **2.0**				
W-35	10/10/19							0						*Could not locate well*
W-36	01/01/98	< **5.0**	4.4	39	56	12		116						
W-36	05/06/04	< **10**	< 10	190	390	< 10	**230**	840						
W-36	07/28/05	< 1.0	< 1.0	55	77	< 1.0	**77**	212						
W-36	11/03/05	< 1.0	< 1.0	2.9	3.6	< 1.0	3.3	13						
W-36	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
W-36	05/17/06	< 1.0	< 1.0	3.0	< 3.0	< 1.5	4.1	14						
W-36	09/25/06	< 1.0	< 1.0	23	3.0	< 1.5	**82**	111						
W-36	12/26/06	< 1.0	< 1.0	15	4.5	< 1.5	**55**	78						
W-36	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-36	08/22/12	< 1.0	< 1.0	2.3	< 1.5	< 1.0	11	18						
W-36	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-36	10/01/13							0						*Paved over*
W-36	05/02/14	< 1.0	< 1.0	2.4	< 1.5	< 1.0	12	19						
W-36	11/17/14	< 1.0	< 1.0	3.8	< 1.5	< 1.0	17	25						
W-36	05/19/15	< 1.0	< 1.0	2.6	< 1.5	< 1.0	**31**	38						
W-36	01/17/17	< 1.0	< 1.0	1.1	< 1.5	< 1.0	18	24	< 1.0	< **1.0**				
W-36	12/20/17	< 1.0	< 1.0	4.1	< 1.5	< 1.0	**70**	79	< 1.0	< **1.0**				
W-36	10/10/19							0						*Could not locate well*
W-37	06/01/94	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5		4.5						
W-37	05/06/04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
W-37	07/28/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
W-37	09/25/06	< 1.0	< 1.0	12	< 3.0	< 1.5	< 10	29						
W-37	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-37	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-37	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-37	10/01/13							0						*Paved over*
W-37	05/01/14							0						*Plugged*
NMW-2/RNMW-2	04/23/04							0						*NAPL*
NMW-2/RNMW-2	07/28/05	**320**	11	**710**	120	**1,300**	**39**	2,500						
NMW-2/RNMW-2	11/03/05	**74**	1.1	160	52	**590**	27	905						
NMW-2/RNMW-2	01/31/06	**11**	< 1.0	45	4.1	**560**	3.0	624						
NMW-2/RNMW-2	05/17/06	**310**	< 1.0	31	19	**550**	14	925						
NMW-2/RNMW-2	09/25/06	**20**	< 10	16	< 30	**1,300**	< **100**	1,476						
NMW-2/RNMW-2	12/26/06	**47**	< 10	< 10	< 30	**1,000**	20	1,117						
NMW-2/RNMW-2	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	83	< 10	98						
NMW-2/RNMW-2	08/22/12	**54**	< 1.0	< 1.0	< 1.5	**290**	9.6	357						
NMW-2/RNMW-2	03/26/13	**99**	1.2	1.7	2.2	**220**	7.4	332						
NMW-2/RNMW-2	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	61	< 10	76						
NMW-2/RNMW-2	05/02/14	**12**	< 1.0	< 1.0	< 1.5	72	< 10	98						
NMW-2/RNMW-2	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	62	< 10	77						
NMW-2/RNMW-2	05/19/15	**12**	< 1.0	< 1.0	< 1.5	50	2.3	68						
NMW-2/RNMW-2	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	23	< 10	38	< 1.0	< **1.0**				
NMW-2/RNMW-2	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	18	< 10	33	< 1.0	< **1.0**				
NMW-2/RNMW-2	10/10/19	**120**	1.9	3.4	2.8	**110**	**80**	318	< 1.0	< **1.0**				
NMW-2/RNMW-2	06/17/21	**13**	< 2.0	< 2.0	< 3.0	44	< 20	84	< 2.0	< **2.0**				
NMW-2/RNMW-2	04/06/22	**44**	< 2.0	< 2.0	< 3.0	51	13	115	< 1.0	< **1.0**	< 0.50	68		
NMW-2/RNMW-2	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	46	< 10	61	< 1.0	< **1.0**	< 0.50	100	720	
NMW-2/RNMW-2	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	9.5	< 10	24	< 1.0	< 1.0	< 0.50	93		

TABLE 4. GROUNDWATER ANALYTICAL RESULTS
ATEX 213, ALBUQUERQUE, NEW MEXICO

NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*		*5*	*0.05*					
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**BTEXMN**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
NMW-2/RNMW-2	09/06/23	< 1.0	< 1.0	< 1.0	< 1.5	**22**	< 10	37	< 1.0	< 1.0				
NMW-3/RNMW-3	01/01/98							0						*NAPL*
NMW-3/RNMW-3	04/23/04							0						*NAPL*
NMW-3/RNMW-3	07/28/05	**150**	**23**	270	130	**1,200**	**32**	1,805						
NMW-3/RNMW-3	11/03/05	**130**	**7.7**	**89**	170	**1,400**	**32**	1,829						
NMW-3/RNMW-3	01/31/06	**11**	< 1.0	16	6.4	**550**	3.3	588						
NMW-3/RNMW-3	05/17/06	**16**	< 1.0	**7.9**	< 3.0	**370**	< 10	408						
NMW-3/RNMW-3	09/25/06	**220**	< **5.0**	**64**	< 15	**1,400**	**110**	1,814						
NMW-3/RNMW-3	12/26/06	**6.4**	< **5.0**	< **5.0**	< 15	**580**	< **50**	661						
NMW-3/RNMW-3	02/21/12	1.8	< 1.0	< 1.0	< 1.5	**120**	4.9	130						
NMW-3/RNMW-3	08/23/12	1.2	< 1.0	< 1.0	< 1.5	**170**	5.5	180						
NMW-3/RNMW-3	03/26/13	4.6	< 1.0	< 1.0	< 1.5	86	5.4	100						
NMW-3/RNMW-3	10/01/13	1.2	< 1.0	< 1.0	< 1.5	83	10	98						
NMW-3/RNMW-3	05/02/14	< 1.0	< 1.0	< 1.0	< 1.5	31	< 10	46						
NMW-3/RNMW-3	11/17/14	1.1	< 1.0	< 1.0	< 1.5	63	< 10	78						
NMW-3/RNMW-3	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	46	< 10	61						
NMW-3/RNMW-3	01/17/17	1.3	< 1.0	< 1.0	< 1.5	64	10	79	< 1.0	< **1.0**				
NMW-3/RNMW-3	12/20/17	2.0	< 1.0	< 1.0	< 1.5	61	10	77	< 1.0	< **1.0**				
NMW-3/RNMW-3	10/10/19	1.5	< 1.0	< 1.0	< 1.5	30	9.6	45	< 1.0	< **1.0**				
NMW-3/RNMW-3	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	11	< 10	26	< 1.0	< **1.0**				
NMW-3/RNMW-3	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	5.5	< 10	20	< 1.0	< **1.0**	< 0.10	100	586	
NMW-3/RNMW-3	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	13	< 10	28	< 1.0	< **1.0**	< 0.50	75	633	
NMW-3/RNMW-3	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	11	< 10	26	< 1.0	< **1.0**				
NMW-3/RNMW-3	09/06/23	< 1.0	< 1.0	< 1.0	< 1.5	20	< 10	35	< 1.0	< **1.0**				

NOTES:
BOLD RED *indicates concentration above the New Mexico Administrative Code 20.6.2.3103 Human Health Standards for Groundwater*
All concentrations reported in micrograms per liter (µg/L).
All data reported prior to 2012 from Groundwater Monitoring Report, Atex #213 UST Release Site, Albuquerque, New Mexico (Souder Miller Associates, 2007).
EDB = Ethylene Dibromide
EDC = Ethylene Dichloride
MTBE = Methyl tertiary-butyl ether

Figures



LEGEND:

- MW-2 — MONITORING WELL
- MW-6 P&A — PLUGGED WELL
- PETROFIX INJECTION POINT

50 25 0 50

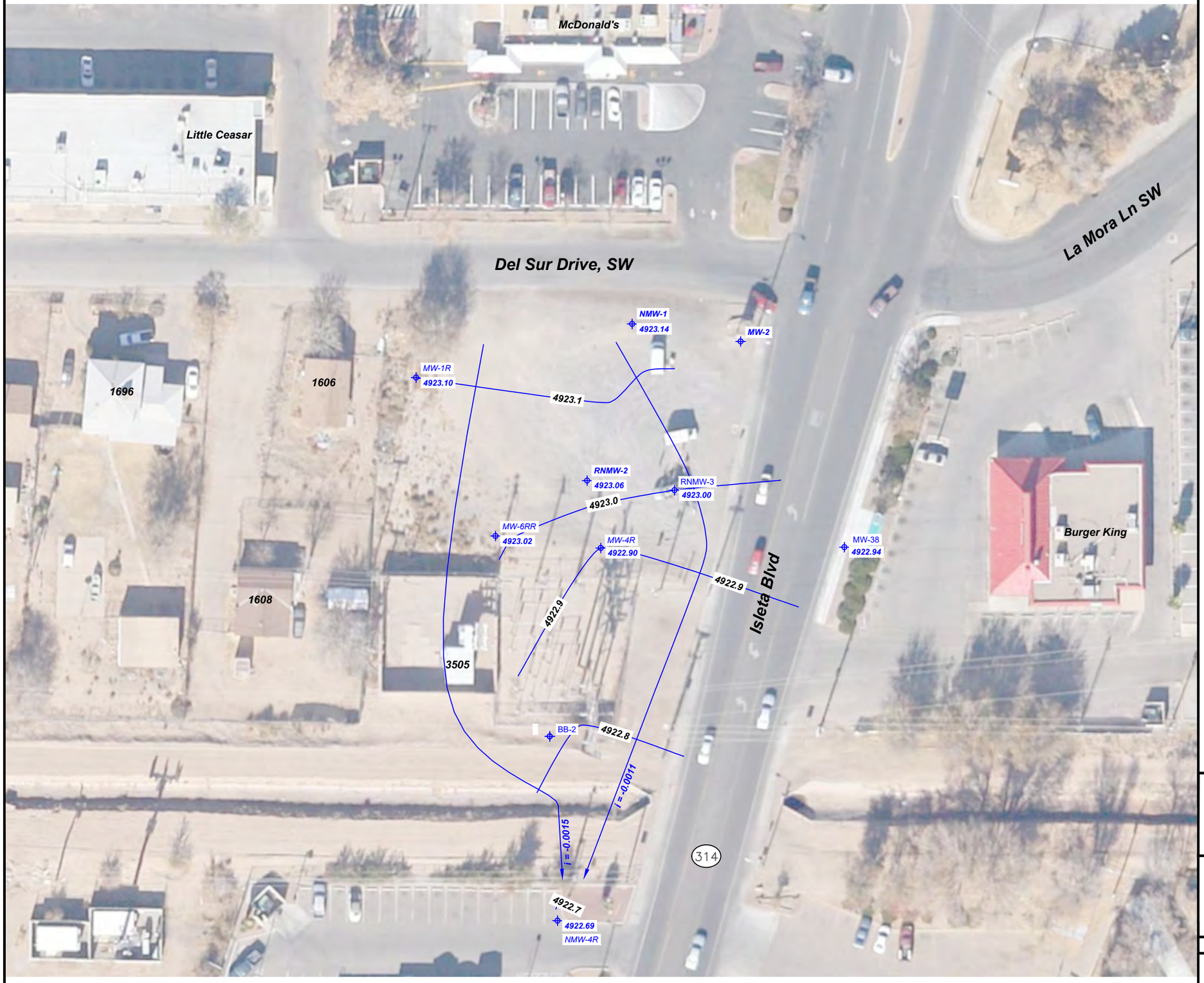
SCALE IN FEET

ATEX 213
ALBUQUERQUE, NEW MEXICO

FIGURE 1
SITE LAYOUT

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

320 Gold Avenue, SW Suite 1300
Albuquerque, NM 87102
EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC. PBC



LEGEND:

MW-2 — MONITORING WELL

4922.50 — GROUNDWTATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL

GROUNDWATER FLOW DIRECTION
AVERAGE GRADIENT 0.0015

N

50 25 0 50
SCALE IN FEET

ATEX 213
ALBUQUERQUE, NEW MEXICO

FIGURE 2
GROUNDWATER CONTOUR MAP
SEPTEMBER 6, 2023

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

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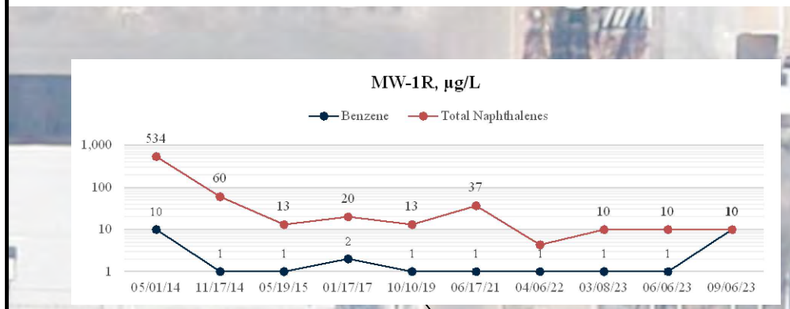
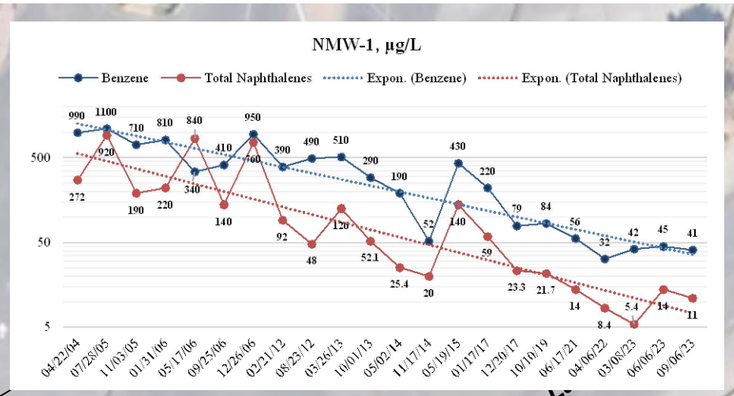
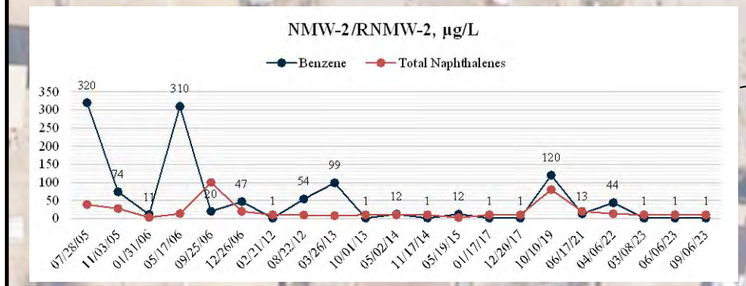
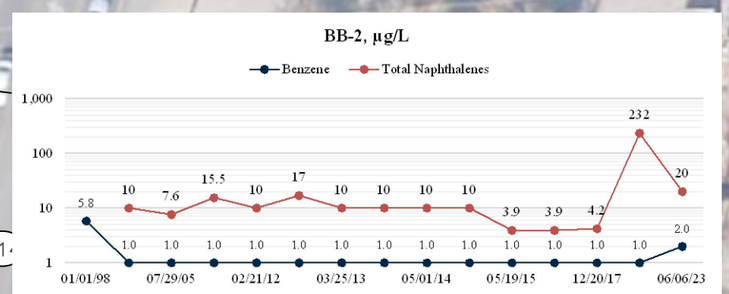








LEGEND:

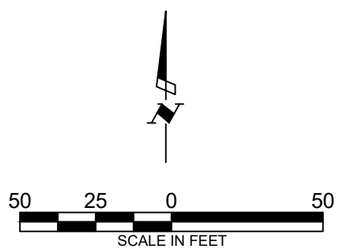
MW-2 — MONITORING WELL

PETROFIX WAS INJECTED IN THE AREA SURROUNDING THE WELL IN SEPTEMBER 2022.

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

NOTES:

1. *ON GRAPHS, WHEN CONCENTRATIONS WERE BELOW DETECTION LIMITS, REPORTING LIMITS WERE USED FOR GRAPHING PURPOSES.*
2. *MW-1R HAD PETROFIX®. THEREFORE, THE LABORATORY DILUTED THE SAMPLE TO ANALYZE IT. THIS RESULTED IN HIGH REPORTING LIMITS. THE VALUES SHOWN ON THE GRAPH WERE ADJUSTED TO THE STANDARD DILUTION.*
3. *PLEASE SEE TABLE 4 FOR ADDITIONAL CONCENTRATION DATA.*
4. *CONCENTRATIONS ARE IN MICROGRAMS PER LITER.*



ATEX 213
ALBUQUERQUE, NEW MEXICO

FIGURE 3
VOLATILE ORGANIC COMPOUNDS
SEPTEMBER 6, 2023

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

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Appendix A – Field Records

EA Engineering, Science, and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: BNMW-3
Site: ATEX 213
Depth to PSH: — Feet
Depth to water: 10.22 Feet
Total depth: 15.98 Feet
NAPL thickness: — Feet

Date gauged: 9-6-2023
Time gauged: 0954
Well diameter: 2 Inches
Height of fluid column: 5.76 Feet
Volume in well: 0.97 Gallons

(3 well volumes = 2.93 gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: 0957 9.6.23 Purge Method: Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0957	0.75	25.53	2292	6.99	56.9	0.23
1000	1.5	24.69	1977	7.24	1.9	0.20
1002	2.75	24.69	1840	7.41	3.0	0.35

Actual purge volume: 3 gal.
Field measurements stabilized within ± 10%? No

Time/date sampled: 1004 9.6.23
Purged/sampled by: D. OBrien

Sample method: Disposable bailer
Requested analyses: 8260

Comments/observations:

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

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320 Gold Avenue SW, Suite 1210
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-4R
Site: ATCX213
Date gauged: 9.6.2023
Time gauged: 1013
Depth to PSH: — Feet
Well diameter: 2 Inches
Depth to water: 10.52 Feet
Height of fluid column: 10.56 Feet
Total depth: 21.08 Feet
Volume in well: 1.79 Gallons
NAPL thickness: — Feet
(3 well volumes = 5.38 gallons)

After Bailing NAPL
Depth to PSH: _____ Feet
Depth to water: _____ Feet
NAPL thickness: _____ Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1015
Purge Method: hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1015	0.25	25.36	758	7.71	2.2	0.29
1018	2.5	24.14	1374	7.53	-32.8	0.22
1022	5.25	24.04	1387	7.45	-34.1	0.26

Actual purge volume: 5.5 gal.
Field measurements stabilized within ± 10%? NO
Time/date sampled: 1024
Purged/sampled by: D. O'Brien
Sample method: Disposable bailer
Requested analyses: 8260
Comments/observations:

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

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Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: RNMW-2
Site: Aztec 213
Depth to PSH: — Feet
Depth to water: 10.39 Feet
Total depth: 15.52 Feet
NAPL thickness: — Feet

Date gauged: 9.6.2023
Time gauged: 1027
Well diameter: 2 Inches
Height of fluid column: 5.13 Feet
Volume in well: 0.87 Gallons

(3 well volumes = 2.61 gallons)

After Bailing NAPL
Depth to PSH: _____ Feet
Depth to water: _____ Feet
NAPL thickness: _____ Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1030 9.6.2023
Purge Method: Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1030	0.25	24.43	1925	7.30	45.8	0.25
1034	1.5	25.22	1794	7.22	5.3	0.28
1037	2.5	25.09	1680	7.36	35.9	0.31

Actual purge volume: 2.75 gal.
Field measurements stabilized within ± 10%? NO

Time/date sampled: 1040
Purged/sampled by: D.O'Brien

Sample method: Disposable Bailer
Requested analyses: 8260

Comments/observations:

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

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Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-6 RR
Site: Atex 213
Depth to PSH: — Feet
Depth to water: 10.88 Feet
Total depth: 19.98 Feet
NAPL thickness: — Feet

Date gauged: 9.6.2023
Time gauged: 1046
Well diameter: 2 Inches
Height of fluid column: 9.1 Feet
Volume in well: 1.54 Gallons

(3 well volumes = 4.64 gallons)

After Bailing NAPL
Depth to PSH: _____ Feet
Depth to water: _____ Feet
NAPL thickness: _____ Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1048
Purge Method: hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1048	0.25	24.44	1328	7.74	60.7	0.28
1053	2.25	~3.94	1345	7.72	88.5	0.37
1058	4.5	2.3333	1357	7.49	26.4	0.25

Actual purge volume: 4.75 gal.
Field measurements stabilized within ± 10%? NO

Time/date sampled: 1101 9.6.23
Purged/sampled by: D. O'Brien

Sample method: Disposable bailer
Requested analyses: 8260

Comments/observations:

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

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Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-1R
Site: Alex 213
Depth to PSH: — Feet
Depth to water: 8.98 Feet
Total depth: 14.67 Feet
NAPL thickness: — Feet

Date gauged: 9.6.2023
Time gauged: 1104
Well diameter: 2 Inches
Height of fluid column: 5.69 Feet
Volume in well: 0.96 Gallons

(3 well volumes = 2.90 gallons)

After Bailing NAPL
Depth to PSH: . Feet
Depth to water: _____ Feet
NAPL thickness: . Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1107 9.16.23 Purge Method: Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1107	0.25	26.08	1334	7.77	-52.7	0.20
1110	1.75	25.27	1321	7.53	-73.0	0.16
1114	2.75	24.07	1314	7.70	-5.4	0.21

Actual purge volume: 3 gal.
Field measurements stabilized within ± 10%? No

Time/date sampled: 1118 9.6.23
Purged/sampled by: D. OBrien

Sample method: Disposable bailer
Requested analyses: 8260

Comments/observations:

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

EA Engineering, Science, and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: NMW-1
Site: Atex 213
Depth to PSH: — Feet
Depth to water: 9.99 Feet
Total depth: 15.10 Feet
NAPL thickness: — Feet

Date gauged: 9.6.2023
Time gauged: 1122
Well diameter: 2 Inches
Height of fluid column: 5.61 Feet
Volume in well: 0.95 Gallons
(3 well volumes = 2.86 gallons)

After Bailing NAPL
Depth to PSH: — Feet
Depth to water: — Feet
NAPL thickness: — Feet
NAPL Recovered: — Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1124 9.6.2023 Purge Method: Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1124	0.25	~~25.27~~	1938	7.05	-54.3	0.23
1127	1.25	26.53	1926	7.17	-80.6	0.27
1131	2.75	26.02	1924	7.00	-113.8	0.26

Actual purge volume: 3 gal.
Field measurements stabilized within ± 10%?
Time/date sampled: 1133 9.6.23
Purged/sampled by: D. O'Brien
Sample method: Disposable bailer
Requested analyses: 8260
Comments/observations:

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

EA Engineering, Science, and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-38
Site: Alex 213
Depth to PSH: — Feet
Depth to water: 8.93 Feet
Total depth: 12.15 Feet
NAPL thickness: — Feet

Date gauged: 1.6.2023
Time gauged: ~~10 40~~ 1140
Well diameter: 2 Inches
Height of fluid column: 3.22 Feet
Volume in well: 0.54 Gallons
(3 well volumes = 1.64 gallons)

After Bailing NAPL
Depth to PSH: _____ Feet
Depth to water: _____ Feet
NAPL thickness: _____ Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1144 9.6.23 Purge Method: hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1144	0.25	26.01	1584	7.33	29.8	0.28
1146	0.75	24.91	1549	7.10	16.2	0.20
1148	1.5	24.83	1546	7.04	13.1	0.30

Actual purge volume: 1.75 gal.
Field measurements stabilized within ± 10%? NO

Time/date sampled: 1151 9.6.23 Purged/sampled by: R. OBrien

Sample method: _____
Requested analyses: 8260
Comments/observations: _____

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

EA Engineering, Science, and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: NMW-4R
Site: Afex 213
Date gauged: 9.6.2023
Time gauged: 1201

Depth to PSH: — Feet
Well diameter: 2 Inches
Depth to water: 9.82 Feet
Height of fluid column: 9.94 Feet
Total depth: 19.76 Feet
Volume in well: 1.68 Gallons
NAPL thickness: — Feet
(3 well volumes = 5.06 gallons)

After Bailing NAPL
Depth to PSH: _____ Feet
Depth to water: _____ Feet
NAPL thickness: _____ Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1203 9.6.23 Purge Method: handbail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1203	0.25	24.78	719	7.45	60.5	0.33
1207	2.5	22.82	760	7.17	33.8	0.26
1211	4.75	22.22	754	7.16	20.6	0.26

Actual purge volume: 5 gal.
Field measurements stabilized within ± 10%? NO
Time/date sampled: 1212 9.6.23
Purged/sampled by: D. Obrien
Sample method: Disposable Bailer
Requested analyses: 8260
Comments/observations:

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

Appendix B – Laboratory Report

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 20, 2023

Vener Mustafin

EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL: (505) 224-9013
FAX:

RE: Atex 213 OrderNo.: 2309231

Dear Vener Mustafin:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/6/2023 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: RNMW-3
Project: Atex 213
Collection Date: 9/6/2023 10:04:00 AM
Lab ID: 2309231-001
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Toluene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Ethylbenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Methyl tert-butyl ether (MTBE)	20	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Naphthalene	ND	2.0		µg/L	1	9/12/2023 4:11:10 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	9/12/2023 4:11:10 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	9/12/2023 4:11:10 PM
Acetone	ND	10		µg/L	1	9/12/2023 4:11:10 PM
Bromobenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Bromodichloromethane	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Bromoform	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Bromomethane	ND	3.0		µg/L	1	9/12/2023 4:11:10 PM
2-Butanone	ND	10		µg/L	1	9/12/2023 4:11:10 PM
Carbon disulfide	ND	10		µg/L	1	9/12/2023 4:11:10 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Chlorobenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Chloroethane	ND	2.0		µg/L	1	9/12/2023 4:11:10 PM
Chloroform	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Chloromethane	ND	3.0		µg/L	1	9/12/2023 4:11:10 PM
2-Chlorotoluene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
4-Chlorotoluene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
cis-1,2-DCE	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/12/2023 4:11:10 PM
Dibromochloromethane	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Dibromomethane	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	9/12/2023 4:11:10 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: RNMW-3
Project: Atex 213
Collection Date: 9/6/2023 10:04:00 AM
Lab ID: 2309231-001
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,1-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
2-Hexanone	ND	10		µg/L	1	9/12/2023 4:11:10 PM
Isopropylbenzene	1.2	1.0		µg/L	1	9/12/2023 4:11:10 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	9/12/2023 4:11:10 PM
Methylene Chloride	ND	3.0		µg/L	1	9/12/2023 4:11:10 PM
n-Butylbenzene	ND	3.0		µg/L	1	9/12/2023 4:11:10 PM
n-Propylbenzene	1.6	1.0		µg/L	1	9/12/2023 4:11:10 PM
sec-Butylbenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Styrene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
tert-Butylbenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/12/2023 4:11:10 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
trans-1,2-DCE	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/12/2023 4:11:10 PM
Vinyl chloride	ND	1.0		µg/L	1	9/12/2023 4:11:10 PM
Xylenes, Total	ND	1.5		µg/L	1	9/12/2023 4:11:10 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	9/12/2023 4:11:10 PM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	9/12/2023 4:11:10 PM
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	9/12/2023 4:11:10 PM
Surr: Toluene-d8	101	70-130		%Rec	1	9/12/2023 4:11:10 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-4R
Project: Atex 213
Collection Date: 9/6/2023 10:24:00 AM
Lab ID: 2309231-002
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Toluene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Ethylbenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Methyl tert-butyl ether (MTBE)	2.9	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,2,4-Trimethylbenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,3,5-Trimethylbenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,2-Dichloroethane (EDC)	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,2-Dibromoethane (EDB)	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Naphthalene	ND	4.0	D	µg/L	2	9/12/2023 4:39:25 PM
1-Methylnaphthalene	ND	8.0	D	µg/L	2	9/12/2023 4:39:25 PM
2-Methylnaphthalene	ND	8.0	D	µg/L	2	9/12/2023 4:39:25 PM
Acetone	ND	20	D	µg/L	2	9/12/2023 4:39:25 PM
Bromobenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Bromodichloromethane	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Bromoform	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Bromomethane	ND	6.0	D	µg/L	2	9/12/2023 4:39:25 PM
2-Butanone	ND	20	D	µg/L	2	9/12/2023 4:39:25 PM
Carbon disulfide	ND	20	D	µg/L	2	9/12/2023 4:39:25 PM
Carbon Tetrachloride	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Chlorobenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Chloroethane	ND	4.0	D	µg/L	2	9/12/2023 4:39:25 PM
Chloroform	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Chloromethane	ND	6.0	D	µg/L	2	9/12/2023 4:39:25 PM
2-Chlorotoluene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
4-Chlorotoluene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
cis-1,2-DCE	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
cis-1,3-Dichloropropene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,2-Dibromo-3-chloropropane	ND	4.0	D	µg/L	2	9/12/2023 4:39:25 PM
Dibromochloromethane	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Dibromomethane	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,2-Dichlorobenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,3-Dichlorobenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,4-Dichlorobenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Dichlorodifluoromethane	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,1-Dichloroethane	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,1-Dichloroethene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,2-Dichloropropane	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,3-Dichloropropane	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
2,2-Dichloropropane	ND	4.0	D	µg/L	2	9/12/2023 4:39:25 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-4R
Project: Atex 213
Collection Date: 9/6/2023 10:24:00 AM
Lab ID: 2309231-002
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,1-Dichloropropene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Hexachlorobutadiene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
2-Hexanone	ND	20	D	µg/L	2	9/12/2023 4:39:25 PM
Isopropylbenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
4-Isopropyltoluene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
4-Methyl-2-pentanone	ND	20	D	µg/L	2	9/12/2023 4:39:25 PM
Methylene Chloride	ND	6.0	D	µg/L	2	9/12/2023 4:39:25 PM
n-Butylbenzene	ND	6.0	D	µg/L	2	9/12/2023 4:39:25 PM
n-Propylbenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
sec-Butylbenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Styrene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
tert-Butylbenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,1,1,2-Tetrachloroethane	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,1,2,2-Tetrachloroethane	ND	4.0	D	µg/L	2	9/12/2023 4:39:25 PM
Tetrachloroethene (PCE)	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
trans-1,2-DCE	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
trans-1,3-Dichloropropene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,2,3-Trichlorobenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,2,4-Trichlorobenzene	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,1,1-Trichloroethane	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,1,2-Trichloroethane	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Trichloroethene (TCE)	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Trichlorofluoromethane	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
1,2,3-Trichloropropane	ND	4.0	D	µg/L	2	9/12/2023 4:39:25 PM
Vinyl chloride	ND	2.0	D	µg/L	2	9/12/2023 4:39:25 PM
Xylenes, Total	ND	3.0	D	µg/L	2	9/12/2023 4:39:25 PM
Surr: 1,2-Dichloroethane-d4	99.2	70-130	D	%Rec	2	9/12/2023 4:39:25 PM
Surr: 4-Bromofluorobenzene	106	70-130	D	%Rec	2	9/12/2023 4:39:25 PM
Surr: Dibromofluoromethane	97.7	70-130	D	%Rec	2	9/12/2023 4:39:25 PM
Surr: Toluene-d8	99.4	70-130	D	%Rec	2	9/12/2023 4:39:25 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: RNMW-2
Project: Atex 213
Collection Date: 9/6/2023 10:40:00 AM
Lab ID: 2309231-003
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Toluene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Ethylbenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Methyl tert-butyl ether (MTBE)	22	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Naphthalene	ND	2.0		µg/L	1	9/12/2023 5:07:40 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	9/12/2023 5:07:40 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	9/12/2023 5:07:40 PM
Acetone	ND	10		µg/L	1	9/12/2023 5:07:40 PM
Bromobenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Bromodichloromethane	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Bromoform	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Bromomethane	ND	3.0		µg/L	1	9/12/2023 5:07:40 PM
2-Butanone	ND	10		µg/L	1	9/12/2023 5:07:40 PM
Carbon disulfide	ND	10		µg/L	1	9/12/2023 5:07:40 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Chlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Chloroethane	ND	2.0		µg/L	1	9/12/2023 5:07:40 PM
Chloroform	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Chloromethane	ND	3.0		µg/L	1	9/12/2023 5:07:40 PM
2-Chlorotoluene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
4-Chlorotoluene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
cis-1,2-DCE	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/12/2023 5:07:40 PM
Dibromochloromethane	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Dibromomethane	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	9/12/2023 5:07:40 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: RNMW-2
Project: Atex 213
Collection Date: 9/6/2023 10:40:00 AM
Lab ID: 2309231-003
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,1-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
2-Hexanone	ND	10		µg/L	1	9/12/2023 5:07:40 PM
Isopropylbenzene	1.9	1.0		µg/L	1	9/12/2023 5:07:40 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	9/12/2023 5:07:40 PM
Methylene Chloride	ND	3.0		µg/L	1	9/12/2023 5:07:40 PM
n-Butylbenzene	ND	3.0		µg/L	1	9/12/2023 5:07:40 PM
n-Propylbenzene	2.3	1.0		µg/L	1	9/12/2023 5:07:40 PM
sec-Butylbenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Styrene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
tert-Butylbenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/12/2023 5:07:40 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
trans-1,2-DCE	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/12/2023 5:07:40 PM
Vinyl chloride	ND	1.0		µg/L	1	9/12/2023 5:07:40 PM
Xylenes, Total	ND	1.5		µg/L	1	9/12/2023 5:07:40 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	9/12/2023 5:07:40 PM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	9/12/2023 5:07:40 PM
Surr: Dibromofluoromethane	96.0	70-130		%Rec	1	9/12/2023 5:07:40 PM
Surr: Toluene-d8	102	70-130		%Rec	1	9/12/2023 5:07:40 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-6RR
Project: Atex 213
Collection Date: 9/6/2023 11:01:00 AM
Lab ID: 2309231-004
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Toluene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Ethylbenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Naphthalene	ND	2.0		µg/L	1	9/12/2023 5:35:51 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	9/12/2023 5:35:51 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	9/12/2023 5:35:51 PM
Acetone	ND	10		µg/L	1	9/12/2023 5:35:51 PM
Bromobenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Bromodichloromethane	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Bromoform	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Bromomethane	ND	3.0		µg/L	1	9/12/2023 5:35:51 PM
2-Butanone	ND	10		µg/L	1	9/12/2023 5:35:51 PM
Carbon disulfide	ND	10		µg/L	1	9/12/2023 5:35:51 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Chlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Chloroethane	ND	2.0		µg/L	1	9/12/2023 5:35:51 PM
Chloroform	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Chloromethane	ND	3.0		µg/L	1	9/12/2023 5:35:51 PM
2-Chlorotoluene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
4-Chlorotoluene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
cis-1,2-DCE	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/12/2023 5:35:51 PM
Dibromochloromethane	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Dibromomethane	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	9/12/2023 5:35:51 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-6RR
Project: Atex 213
Collection Date: 9/6/2023 11:01:00 AM
Lab ID: 2309231-004
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,1-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
2-Hexanone	ND	10		µg/L	1	9/12/2023 5:35:51 PM
Isopropylbenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	9/12/2023 5:35:51 PM
Methylene Chloride	ND	3.0		µg/L	1	9/12/2023 5:35:51 PM
n-Butylbenzene	ND	3.0		µg/L	1	9/12/2023 5:35:51 PM
n-Propylbenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
sec-Butylbenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Styrene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
tert-Butylbenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/12/2023 5:35:51 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
trans-1,2-DCE	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/12/2023 5:35:51 PM
Vinyl chloride	ND	1.0		µg/L	1	9/12/2023 5:35:51 PM
Xylenes, Total	ND	1.5		µg/L	1	9/12/2023 5:35:51 PM
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	9/12/2023 5:35:51 PM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	9/12/2023 5:35:51 PM
Surr: Dibromofluoromethane	101	70-130		%Rec	1	9/12/2023 5:35:51 PM
Surr: Toluene-d8	104	70-130		%Rec	1	9/12/2023 5:35:51 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-1R
Project: Atex 213
Collection Date: 9/6/2023 11:18:00 AM
Lab ID: 2309231-005
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	10	10	D	µg/L	20	9/13/2023 10:33:43 AM
Toluene	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Ethylbenzene	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Methyl tert-butyl ether (MTBE)	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,2,4-Trimethylbenzene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
1,3,5-Trimethylbenzene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
1,2-Dichloroethane (EDC)	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,2-Dibromoethane (EDB)	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Naphthalene	ND	100	D	µg/L	50	9/14/2023 3:20:01 PM
1-Methylnaphthalene	ND	200	D	µg/L	50	9/14/2023 3:20:01 PM
2-Methylnaphthalene	ND	200	D	µg/L	50	9/14/2023 3:20:01 PM
Acetone	ND	200	D	µg/L	20	9/13/2023 10:33:43 AM
Bromobenzene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
Bromodichloromethane	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Bromoform	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
Bromomethane	ND	60	D	µg/L	20	9/13/2023 10:33:43 AM
2-Butanone	ND	200	D	µg/L	20	9/13/2023 10:33:43 AM
Carbon disulfide	ND	200	D	µg/L	20	9/13/2023 10:33:43 AM
Carbon Tetrachloride	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Chlorobenzene	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Chloroethane	ND	40	D	µg/L	20	9/13/2023 10:33:43 AM
Chloroform	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Chloromethane	ND	60	D	µg/L	20	9/13/2023 10:33:43 AM
2-Chlorotoluene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
4-Chlorotoluene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
cis-1,2-DCE	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
cis-1,3-Dichloropropene	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,2-Dibromo-3-chloropropane	ND	100	D	µg/L	50	9/14/2023 3:20:01 PM
Dibromochloromethane	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Dibromomethane	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,2-Dichlorobenzene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
1,3-Dichlorobenzene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
1,4-Dichlorobenzene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
Dichlorodifluoromethane	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,1-Dichloroethane	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,1-Dichloroethene	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,2-Dichloropropane	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,3-Dichloropropane	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
2,2-Dichloropropane	ND	40	D	µg/L	20	9/13/2023 10:33:43 AM

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	Above Quantitation Range/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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-1R
Project: Atex 213
Collection Date: 9/6/2023 11:18:00 AM
Lab ID: 2309231-005
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1,1-Dichloropropene	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Hexachlorobutadiene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
2-Hexanone	ND	200	D	µg/L	20	9/13/2023 10:33:43 AM
Isopropylbenzene	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
4-Isopropyltoluene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
4-Methyl-2-pentanone	ND	200	D	µg/L	20	9/13/2023 10:33:43 AM
Methylene Chloride	ND	60	D	µg/L	20	9/13/2023 10:33:43 AM
n-Butylbenzene	ND	150	D	µg/L	50	9/14/2023 3:20:01 PM
n-Propylbenzene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
sec-Butylbenzene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
Styrene	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
tert-Butylbenzene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
1,1,1,2-Tetrachloroethane	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,1,2,2-Tetrachloroethane	ND	100	D	µg/L	50	9/14/2023 3:20:01 PM
Tetrachloroethene (PCE)	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
trans-1,2-DCE	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
trans-1,3-Dichloropropene	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,2,3-Trichlorobenzene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
1,2,4-Trichlorobenzene	ND	50	D	µg/L	50	9/14/2023 3:20:01 PM
1,1,1-Trichloroethane	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,1,2-Trichloroethane	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Trichloroethene (TCE)	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Trichlorofluoromethane	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
1,2,3-Trichloropropane	ND	100	D	µg/L	50	9/14/2023 3:20:01 PM
Vinyl chloride	ND	20	D	µg/L	20	9/13/2023 10:33:43 AM
Xylenes, Total	ND	30	D	µg/L	20	9/13/2023 10:33:43 AM
Surr: 1,2-Dichloroethane-d4	108	70-130	D	%Rec	20	9/13/2023 10:33:43 AM
Surr: 4-Bromofluorobenzene	113	70-130	D	%Rec	50	9/14/2023 3:20:01 PM
Surr: Dibromofluoromethane	110	70-130	D	%Rec	20	9/13/2023 10:33:43 AM
Surr: Toluene-d8	118	70-130	D	%Rec	20	9/13/2023 10:33:43 AM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: NMW-1
Project: Atex 213
Collection Date: 9/6/2023 11:33:00 AM
Lab ID: 2309231-006
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	41	2.0		µg/L	2	9/12/2023 6:32:13 PM
Toluene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Ethylbenzene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Methyl tert-butyl ether (MTBE)	5.4	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Naphthalene	11	4.0		µg/L	2	9/12/2023 6:32:13 PM
1-Methylnaphthalene	ND	8.0		µg/L	2	9/12/2023 6:32:13 PM
2-Methylnaphthalene	ND	8.0		µg/L	2	9/12/2023 6:32:13 PM
Acetone	ND	20		µg/L	2	9/12/2023 6:32:13 PM
Bromobenzene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Bromodichloromethane	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Bromoform	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Bromomethane	ND	6.0		µg/L	2	9/12/2023 6:32:13 PM
2-Butanone	ND	20		µg/L	2	9/12/2023 6:32:13 PM
Carbon disulfide	ND	20		µg/L	2	9/12/2023 6:32:13 PM
Carbon Tetrachloride	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Chlorobenzene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Chloroethane	ND	4.0		µg/L	2	9/12/2023 6:32:13 PM
Chloroform	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Chloromethane	ND	6.0		µg/L	2	9/12/2023 6:32:13 PM
2-Chlorotoluene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
4-Chlorotoluene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
cis-1,2-DCE	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	9/12/2023 6:32:13 PM
Dibromochloromethane	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Dibromomethane	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Dichlorodifluoromethane	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,1-Dichloroethane	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,1-Dichloroethene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,2-Dichloropropane	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,3-Dichloropropane	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
2,2-Dichloropropane	ND	4.0		µg/L	2	9/12/2023 6:32:13 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	Above Quantitation Range/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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: NMW-1
Project: Atex 213
Collection Date: 9/6/2023 11:33:00 AM
Lab ID: 2309231-006
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,1-Dichloropropene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Hexachlorobutadiene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
2-Hexanone	ND	20		µg/L	2	9/12/2023 6:32:13 PM
Isopropylbenzene	5.9	2.0		µg/L	2	9/12/2023 6:32:13 PM
4-Isopropyltoluene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
4-Methyl-2-pentanone	ND	20		µg/L	2	9/12/2023 6:32:13 PM
Methylene Chloride	ND	6.0		µg/L	2	9/12/2023 6:32:13 PM
n-Butylbenzene	ND	6.0		µg/L	2	9/12/2023 6:32:13 PM
n-Propylbenzene	13	2.0		µg/L	2	9/12/2023 6:32:13 PM
sec-Butylbenzene	2.1	2.0		µg/L	2	9/12/2023 6:32:13 PM
Styrene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
tert-Butylbenzene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	9/12/2023 6:32:13 PM
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
trans-1,2-DCE	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Trichloroethene (TCE)	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Trichlorofluoromethane	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
1,2,3-Trichloropropane	ND	4.0		µg/L	2	9/12/2023 6:32:13 PM
Vinyl chloride	ND	2.0		µg/L	2	9/12/2023 6:32:13 PM
Xylenes, Total	ND	3.0		µg/L	2	9/12/2023 6:32:13 PM
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	2	9/12/2023 6:32:13 PM
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	2	9/12/2023 6:32:13 PM
Surr: Dibromofluoromethane	97.0	70-130		%Rec	2	9/12/2023 6:32:13 PM
Surr: Toluene-d8	106	70-130		%Rec	2	9/12/2023 6:32:13 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-38
Project: Atex 213
Collection Date: 9/6/2023 11:51:00 AM
Lab ID: 2309231-007
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Toluene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Ethylbenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Naphthalene	ND	2.0		µg/L	1	9/12/2023 7:00:26 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	9/12/2023 7:00:26 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	9/12/2023 7:00:26 PM
Acetone	ND	10		µg/L	1	9/12/2023 7:00:26 PM
Bromobenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Bromodichloromethane	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Bromoform	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Bromomethane	ND	3.0		µg/L	1	9/12/2023 7:00:26 PM
2-Butanone	ND	10		µg/L	1	9/12/2023 7:00:26 PM
Carbon disulfide	ND	10		µg/L	1	9/12/2023 7:00:26 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Chlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Chloroethane	ND	2.0		µg/L	1	9/12/2023 7:00:26 PM
Chloroform	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Chloromethane	ND	3.0		µg/L	1	9/12/2023 7:00:26 PM
2-Chlorotoluene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
4-Chlorotoluene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
cis-1,2-DCE	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/12/2023 7:00:26 PM
Dibromochloromethane	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Dibromomethane	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	9/12/2023 7:00:26 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-38
Project: Atex 213
Collection Date: 9/6/2023 11:51:00 AM
Lab ID: 2309231-007
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,1-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
2-Hexanone	ND	10		µg/L	1	9/12/2023 7:00:26 PM
Isopropylbenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	9/12/2023 7:00:26 PM
Methylene Chloride	ND	3.0		µg/L	1	9/12/2023 7:00:26 PM
n-Butylbenzene	ND	3.0		µg/L	1	9/12/2023 7:00:26 PM
n-Propylbenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
sec-Butylbenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Styrene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
tert-Butylbenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/12/2023 7:00:26 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
trans-1,2-DCE	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/12/2023 7:00:26 PM
Vinyl chloride	ND	1.0		µg/L	1	9/12/2023 7:00:26 PM
Xylenes, Total	ND	1.5		µg/L	1	9/12/2023 7:00:26 PM
Surr: 1,2-Dichloroethane-d4	91.7	70-130		%Rec	1	9/12/2023 7:00:26 PM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	9/12/2023 7:00:26 PM
Surr: Dibromofluoromethane	96.8	70-130		%Rec	1	9/12/2023 7:00:26 PM
Surr: Toluene-d8	101	70-130		%Rec	1	9/12/2023 7:00:26 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: NMW-4R
Project: Atex 213
Collection Date: 9/6/2023 12:12:00 PM
Lab ID: 2309231-008
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Toluene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Ethylbenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Naphthalene	ND	2.0		µg/L	1	9/12/2023 7:28:34 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	9/12/2023 7:28:34 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	9/12/2023 7:28:34 PM
Acetone	ND	10		µg/L	1	9/12/2023 7:28:34 PM
Bromobenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Bromodichloromethane	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Bromoform	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Bromomethane	ND	3.0		µg/L	1	9/12/2023 7:28:34 PM
2-Butanone	ND	10		µg/L	1	9/12/2023 7:28:34 PM
Carbon disulfide	ND	10		µg/L	1	9/12/2023 7:28:34 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Chlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Chloroethane	ND	2.0		µg/L	1	9/12/2023 7:28:34 PM
Chloroform	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Chloromethane	ND	3.0		µg/L	1	9/12/2023 7:28:34 PM
2-Chlorotoluene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
4-Chlorotoluene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
cis-1,2-DCE	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/12/2023 7:28:34 PM
Dibromochloromethane	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Dibromomethane	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	9/12/2023 7:28:34 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	Above Quantitation Range/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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: NMW-4R
Project: Atex 213
Collection Date: 9/6/2023 12:12:00 PM
Lab ID: 2309231-008
Matrix: GROUNDWA
Received Date: 9/6/2023 1:09:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,1-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
2-Hexanone	ND	10		µg/L	1	9/12/2023 7:28:34 PM
Isopropylbenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	9/12/2023 7:28:34 PM
Methylene Chloride	ND	3.0		µg/L	1	9/12/2023 7:28:34 PM
n-Butylbenzene	ND	3.0		µg/L	1	9/12/2023 7:28:34 PM
n-Propylbenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
sec-Butylbenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Styrene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
tert-Butylbenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/12/2023 7:28:34 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
trans-1,2-DCE	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/12/2023 7:28:34 PM
Vinyl chloride	ND	1.0		µg/L	1	9/12/2023 7:28:34 PM
Xylenes, Total	ND	1.5		µg/L	1	9/12/2023 7:28:34 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/12/2023 7:28:34 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	9/12/2023 7:28:34 PM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	9/12/2023 7:28:34 PM
Surr: Toluene-d8	104	70-130		%Rec	1	9/12/2023 7:28:34 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309231**

20-Sep-23

Client: EA Engineering

Project: Atex 213

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R99638**	RunNo: **99638**
Prep Date:	Analysis Date: **9/12/2023**	SeqNo: **3639620** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	24	1.0	20.00	0	118	70	130			
Toluene	21	1.0	20.00	0	106	70	130			
Chlorobenzene	21	1.0	20.00	0	107	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	97.6	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		111	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R99638**	RunNo: **99638**
Prep Date:	Analysis Date: **9/12/2023**	SeqNo: **3639638** 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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/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#: **2309231**

20-Sep-23

Client: EA Engineering

Project: Atex 213

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R99638**	RunNo: **99638**
Prep Date:	Analysis Date: **9/12/2023**	SeqNo: **3639638** 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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309231**

20-Sep-23

Client: EA Engineering

Project: Atex 213

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R99638**	RunNo: **99638**
Prep Date:	Analysis Date: **9/12/2023**	SeqNo: **3639638** 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	9.9		10.00		98.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R99684**	RunNo: **99684**
Prep Date:	Analysis Date: **9/13/2023**	SeqNo: **3642046** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	117	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Chlorobenzene	22	1.0	20.00	0	112	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R99684**	RunNo: **99684**
Prep Date:	Analysis Date: **9/13/2023**	SeqNo: **3642081** 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-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Acetone	ND	10								
Bromodichloromethane	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/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#: **2309231**

20-Sep-23

Client: EA Engineering

Project: Atex 213

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R99684**	RunNo: **99684**
Prep Date:	Analysis Date: **9/13/2023**	SeqNo: **3642081** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	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								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
Styrene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		99.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **W99718**	RunNo: **99718**
Prep Date:	Analysis Date: **9/14/2023**	SeqNo: **3644178** Units: **%Rec**

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/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#: **2309231**

20-Sep-23

Client: EA Engineering

Project: Atex 213

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **W99718**	RunNo: **99718**
Prep Date:	Analysis Date: **9/14/2023**	SeqNo: **3644178** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.4	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W99718**	RunNo: **99718**
Prep Date:	Analysis Date: **9/14/2023**	SeqNo: **3644180** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Bromobenzene	ND	1.0								
Bromoform	ND	1.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.7	70	130			
Surr: Toluene-d8	10		10.00		99.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EA Engineering | Work Order Number: 2309231 | RcptNo: 1

Received By: Juan Rojas 9/6/2023 1:09:00 PM

Completed By: Desiree Dominguez 9/6/2023 2:24:32 PM

Reviewed By: JM 9/8/23

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 ☐
Samples were collected the same day and chilled.			
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? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
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? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: SCM 9/8/23

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	26.4	Good	Not Present	Morty		

Chain-of-Custody Record

Client: EA Engineering

Mailing Address: 320 Gold Ave SW #720

Phone #: 505 224 9013

email or Fax#: Vmustafin@eaest.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☒ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Hilcorp 213

Project #:

Project Manager: Vener Mustafin

Sampler: Marty

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 26.4-0=26.4 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2309231	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)
9.6.23	1009	GW	RNmw-3	VOA 3	H_2Cl_2	-001								X		
	1024		mw-4R			-002								X		
	1040		RNmw-2			-003								X		
	1101		mw-6RR			-004								X		
	1119		mw-1R			-005								X		
	1133		NMW-1			-006								X		
	1151		mw-38			-007								X		
	1212		NMW-4R			-008								X		

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/6/23	1309	Daniel O'Brien		FedEx	9/6/23	1309
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: