GROUNDWATER MONITORING, & NAPL RECOVERY REPORT FAIRVIEW STATION PSTB FACILITY #28779 1626 NORTH RIVERSIDE DRIVE ESPANOLA, NEW MEXICO

Prepared by:

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September 2017

EA Project No. 6289821 05

STATEMENT OF FAMILIARITY

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature: 
Name: Tyler Curley
Affiliation: EA Engineering, Science, and Technology, Inc., PBC
Title: Project Manager
Date: September 14, 2017

I. INTRODUCTION

EA Engineering, Science, and Technology, Inc., PBC (EA) has completed the groundwater monitoring and NAPL recovery event at Fairview Station (Site) located in Espanola, New Mexico. The groundwater monitoring and NAPL recovery event was completed under state-lead contract #14-667-2000-0030 and in accordance with the *Work Plan for, Groundwater Monitoring and NAPL Recovery, Fairview Station, Espanola, New Mexico* prepared by EA to satisfy the requirements stated in the New Mexico Administrative Code, Title 20, Chapter 5, Section 12 and the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) Guidelines for Corrective Action (GCA). The work plan was approved by the NMED PSTB on June 22, 2017 under work plan identification number (WPID# 3909). This is the first deliverable under WPID #3909-1.

The Site is located at 1626 North Riverside Drive, Espanola, New Mexico (Figure 1). The site operated as a gasoline service station from the 1970s until the underground storage tanks (USTs) were removed in July 2012. The Site was temporarily closed from December 1988 to August 1989 due to a UST system replacement. After the original UST system was removed in December 1988, no release was reported. In July 2012, three USTs, associated piping, and dispensers were removed; field observations indicated a release had occurred. On August 6, 2012, the NMED issued a confirmed release letter to the property owner, Mr. José C. Roybal. Since then, field activities have been conducted including the installation of 21 groundwater monitoring wells, groundwater sampling, and NAPL recovery. On April 28, 2015, NMED designated the Site as State Lead Status. The Site is located south of a second possible release site which currently is occupied by a Dairy Queen, and the NAPL and dissolved phase plumes may be comingled.

During this monitoring event the following was completed:

- Groundwater samples were collected from ten monitoring wells (MW-4, MW-5, MW-6 MW-7, MW-13, MW-16, MW-17, MW-19, MW-20, and MW-21).
- NAPL was hand bailed from wells MW-8.
- Passive skimmers were emptied in wells MW-1, MW-2, and MW-3. The remaining NAPL in the wells was hand bailed before reinstalling the skimmers.
- Absorbent socks were replaced in wells MW-6, MW-9, MW-10, MW-11, MW-14, MW-15, and MW-18 after hand bailing NAPL. MW-6 contained no NAPL so it was sampled.

This report summarizes the results of the groundwater monitoring and NAPL recovery event.

II. ACTIVITIES PERFORMED DURING THIS EVENT

This section provides a brief description of monitoring activities performed during this monitoring period.

A. Brief Description of Remediation System and Date Installed

A summary of recent corrective action activities conducted at the Site follows:

- July 2012, UST system removed from Site;
- August 6, 2012, confirmed release letter issued;
- March 12, 2013, Terracon submitted Minimum Site Assessment (MSA) Report to NMED;
- December 23, 2013, Terracon submitted Addendum MSA Report to NMED;
- October 13, 2014, Terracon submitted a second Addendum MSA Report to NMED;
- January 19, 2015, Terracon submitted Groundwater Monitoring Report to NMED;
- April 28, 2015, NMED designated the Site as State Lead Status;
- October 13, 2015, NMED approves EA's work plan to conduct groundwater monitoring and NAPL recovery;
- January 2016, EA conducted groundwater monitoring and NAPL recovery at the Site;
- July 2016, EA installed seven additional monitoring wells, conducted groundwater monitoring and NAPL recovery;
- Currently, EA is conducting groundwater monitoring and NAPL recovery at the Site.

B. Description of Activities Performed to Keep System Operating Properly

Currently, no active remediation activities are taking place at the site.

C. Monitoring Activities Performed

Gauging

On July 6, 2017, an EA representative gauged fluid levels in all installed and existing site wells (excluding MW-12) with an electronic water level meter or interface probe. Well MW-12 was not gauged since access has not been granted. A potentiometric surface map was constructed

based on the data collected (Figure 2). Monitoring well MW-20 was under pressure during the time of gauging and was excluded from the potentiometric surface map. Results of the gauging as well as historical data are summarized in Table 2. Field forms and notes are provided in Appendix B.

Monitoring Well Sampling Activities

On July 6, 2017, wells MW-4, MW-5, MW-6, MW-7, MW-13, MW-16, MW-17, MW-19, MW-20, and MW-21 were purged and then sampled using disposable bailers. Well MW-12 was scheduled to be sampled; however, access was not granted. Therefore, it was replaced with well MW-6. Wells were sampled from clean to dirty to the extent possible to minimize cross-contamination. All equipment was decontaminated between wells with an Alconox™ solution to further ensure sample quality. Purge water was ground discharged in accordance with Section 1.7.2 of the GCA. Sampling was accomplished by carefully pouring groundwater from new disposable bailers into the sample containers

EA measured field parameters, specific conductance, pH and temperature, with an Oakton PC 300 water quality meter during purging and prior to sampling. DO was measured from the first bailer retrieved using a YSI Pro DO meter. DO, specific conductance, pH and temperature were recorded on monitoring well sampling field forms. The meter was calibrated and/or checked against a standard in accordance with manufacturer's specifications prior to use. Monitoring well sampling field forms are provided in Appendix B.

Sample containers, preservatives, analytical methods, and holding times are specified in Table 1. Samples for VOC analysis were collected such that no headspace existed in the sample vial. All samples were preserved in accordance with method requirements, then immediately cooled to less than 6°C with ice and delivered under chain-of-custody to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The analytical laboratory report is provided in Appendix A.

NAPL

On July 6, 2017, NAPL was observed in wells MW-1, MW-2, MW-3, MW-8, MW-9, MW-10, MW-11, MW-14, MW-15, and MW-18. In well MW-8, 4.52 feet of NAPL was measured. Well MW-8 does not contain a sock or a skimmer. NAPL was hand bailed from well MW-8 for 30 minutes. Wells MW-1, MW-2 and MW-3 contained skimmers. The skimmers were emptied and any remaining NAPL present in the well was hand bailed until less than 1/8-inch of NAPL remained. The skimmers were then reinstalled in the wells. Wells MW-6, MW-9, MW-10, MW-11, MW-14 MW-15 and MW-18 contained absorbent socks. The socks were removed from the wells and the amount of NAPL staining on the sock was recorded. The remaining NAPL if any present in the wells were hand bailed until less than 1/8-inch remained. All recovered NAPL during this event was place in a 55 gallon steel drum that is located behind the building and secured to a pole with a chain. All used absorbent socks were transported to the Fina Truck Stop Site in Albuquerque, New Mexico to await disposal. The total NAPL recovered during this event has been approximately 18 gallons. NAPL recovery is summarized in Table 3.

Groundwater Sampling Results

Dissolved phase hydrocarbon concentrations exceeded New Mexico Water Quality Control Commission (NMWQCC) and/or New Mexico Environmental Improvement Board (NMEIB) standards in all monitoring wells sampled except wells MW-4, MW-17, MW-20, and MW-21. Wells MW-17, MW-20, and MW-21 were below method detection limits for all contaminants of concern. Well MW-4 had detectable concentrations of MTBE and EDC, but was below standards. Wells MW-5, MW-6, MW-7, MW-13, MW-16, and MW-19 exceeded the NMWQCC standard with respect to benzene with concentrations ranging from 13,000 µg/L in well MW-5 to 27 µg/L in well MW-19. Wells MW5, MW-6, and MW-7 exceeded the NMWQCC standards with respect to toluene. Wells MW-5 and MW-6 exceeded the NMWQCC standard with ethylbenzene. Well MW5, MW-6, and MW-7 exceeded the NMWQCC standards with respect to xylenes. Wells MW-5 and MW-7 exceeded the NMEIB standard with respect to MTBE. Wells MW-5, MW-6, MW-7, MW-13, and MW-16 exceeded the NMWQCC standard with respect to naphthalenes. Wells MW-5 and MW-7 exceeded the NMWQCC standard with respect to EDC. The laboratory analytical results for select organic compounds are summarized in Table 4, and field parameters are summarized in Table 5. Distribution of organic contaminants in groundwater is presented in Figure 3.

D. System Performance and Effectiveness

Currently, no system is installed at the site.

E. Statement Verifying Containment of Release

The dissolved phase hydrocarbon plume and the NAPL plume are not defined. The dissolved phase contaminant plume is not defined north, southwest, south, or southeast of the Site. The extent of the NAPL plume is not defined to the southwest of well MW-15 and may be present in the utility corridor along the east side of North Riverside Drive.

III. SUMMARY AND CONCLUSIONS

This section summarizes the results, contains a brief discussion of site trends, and provides recommendations for future site activities.

A. Discussion of any Trends or Changes Noted in Analytical Results or Site Conditions

The regional direction of groundwater flow is to the southeast at a gradient of 0.0025 foot per foot. .A Potentiometric Surface Map is presented in Figure 2 and hydrographs for monitoring wells are provided in Appendix C. Monitoring well MW-20 was under pressure during the time of gauging and was excluded from the potentiometric surface map

NAPL remains persistent at the site with approximately 245 gallons recovered since July 2016. NAPL is currently present in 11 wells at the Site.

Five of the nine wells sampled at the site contain hydrocarbon concentrations above the NMWQCC and NMEIB standards. Benzene concentrations increased in wells MW-5, MW-7, MW-16, and MW-19 when compared to the previous sampling event in November 2016. Benzene concentration decreased slightly or remained the same in the other wells sampled. MTBE concentrations increased slightly in wells MW-5 and MW-16 when compared to the previous sampling event in November 2016. Total naphthalene concentrations increased in well MW-16 since the last sampling event. Total naphthalene concentrations has decreased or remained the same in all other wells sampled this event. Figure 3 presents the distribution of groundwater contamination. Concentration trends are presented in Appendix D.

Field parameters measurement are provided in Table 5. Field parameters appear to be fairly consistent with previous sampling events.

B. Ongoing Assessment of Remediation System

No active remediation system is operating at the Site.

C. Recommendations

Based on the results of the groundwater monitoring, the following recommendation is provided:

- Continue to conduct discretionary NAPL recovery events consisting of emptying skimmers, removing absorbent socks, bailing NAPL, resetting skimmers, and replacing absorbent socks at the Site.
- Continue groundwater monitoring.
- Complete a passive soil gas survey to delineate the extend of NAPL.

- Install additional monitoring wells to delineate the extent of the dissolved phase plume.

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Monitoring Well	Date Measured	Northing	Easting	Casing Elevation[1]	Passive NAPL Recovery Device	Depth to Product[1]	Product Thickness[2]	Depth to Water[1]	Groundwater Elevation[2]
MW-1	6-Jul-17	1825407.387	1695429.115	5621.88	SK	15.22	4.07	19.29	5605.64
	3-Nov-16					14.83	2.40	17.23	5606.45
	22-Jul-16					15.61	2.45	18.06	5605.66
	14-Jul-16				NA	14.45	4.70	19.15	5606.26
	19-Jan-16					13.84	3.93	17.77	5607.06
	9-Jan-15					14.20	3.49	17.69	5606.81
	10-Dec-14					15.51	3.20	18.71	5605.57
	3-Oct-14					14.81	0.04	14.85	5607.06
	26-Nov-13					13.82	1.08	14.90	5607.79
	12-Nov-13					15.37	0.46	15.83	5606.40
	29-Oct-13					13.36	1.89	15.25	5608.05
	10-Jul-13					14.21	0.24	14.45	5607.61
	27-Jun-13					14.43	0.37	14.80	5607.36
	3-Jun-13					13.92	0.28	14.20	5607.89
	27-Feb-13					14.06	0.34	14.40	5607.74
	4-Feb-13					NM	NM	NM	NM
	1-Feb-13					NM	NM	NM	NM
MW-2	6-Jul-17	1825384.848	1695384.788	5622.248	SK	16.21	2.85	19.06	5605.33
	3-Nov-16					15.23	2.52	17.75	5606.39
	22-Jul-16					14.91	3.57	18.48	5606.45
	14-Jul-16				NA	15.23	3.88	19.11	5606.05
	19-Jan-16					14.45	3.60	18.05	5606.90
	9-Jan-15					14.99	3.74	18.73	5606.32
	10-Dec-14					15.77	2.87	18.64	5605.76
	3-Oct-14					14.97	0.08	15.05	5607.26
	26-Nov-13					12.95	5.61	18.56	5607.90
	12-Nov-13					14.34	5.06	19.40	5606.64
	29-Oct-13					12.66	6.02	18.68	5608.08
	10-Jul-13					13.67	3.83	17.50	5607.62
	27-Jun-13					13.98	4.22	18.20	5607.21
	3-Jun-13					13.42	3.97	17.39	5607.84
	27-Feb-13					13.11	5.45	18.56	5607.78
	4-Feb-13					NM	NM	NM	NM
	1-Feb-13					NM	NM	NM	NM
MW-3	6-Jul-17	1825335.555	1695382.273	5622.241	SK	15.70	3.23	18.93	5605.73
	3-Nov-16					16.29	0.49	16.78	5605.83
	22-Jul-16					14.60	6.48	21.08	5606.02
	14-Jul-16				NA	14.23	7.95	22.18	5606.02
	19-Jan-16					12.69	5.91	18.60	5608.07
	9-Jan-15					13.72	6.90	20.62	5606.80
	10-Dec-14					14.75	7.51	22.26	5605.61
	3-Oct-14					13.96	2.95	16.91	5607.54
	26-Nov-13					13.02	6.00	19.02	5607.72
	12-Nov-13					13.19	7.43	20.62	5607.19
	29-Oct-13					12.50	6.96	19.46	5608.00
	10-Jul-13					13.70	3.98	17.68	5607.55
	27-Jun-13					13.88	4.45	18.33	5607.25
	3-Jun-13					13.46	4.11	17.57	5607.75
	27-Feb-13					13.80	2.89	16.69	5607.72
	4-Feb-13					NM	NM	NM	NM
	1-Feb-13					NM	NM	NM	NM

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Monitoring Well	Date Measured	Northing	Easting	Casing Elevation[1]	Passive NAPL Recovery Device	Depth to Product[1]	Product Thickness[2]	Depth to Water[1]	Groundwater Elevation[2]
MW-4	6-Jul-17	1825389.858	1695478.155	5622.812	NA	-	-	17.34	5605.47
	21-Dec-16					-	-	15.50	5607.31
	3-Nov-16					-	-	16.25	5606.56
	22-Jul-16					-	-	15.10	5607.71
	14-Jul-16					-	-	14.89	5607.92
	19-Jan-16					-	-	14.33	5608.48
	9-Jan-15					-	-	15.88	5606.93
	9-Dec-14					Lost Data			
	3-Oct-14					-	-	16.21	5606.60
	26-Nov-13					-	-	15.20	5607.61
	12-Nov-13					-	-	15.12	5607.69
	29-Oct-13					-	-	14.13	5608.68
MW-5	6-Jul-17	1825285.314	1695368.193	5621.609	NA	-	-	16.38	5605.23
	21-Dec-16					-	-	14.93	5606.68
	3-Nov-16					-	-	14.86	5606.75
	22-Jul-16					-	-	14.87	5606.74
	14-Jul-16					-	-	14.17	5607.44
	19-Jan-16					-	-	13.62	5607.99
	9-Jan-15					-	-	14.40	5607.21
	9-Dec-14					Lost Data			
	3-Oct-14					-	-	14.48	5607.13
	26-Nov-13					-	-	14.07	5607.54
	12-Nov-13					-	-	13.93	5607.68
	29-Oct-13					-	-	13.77	5607.84
MW-6	6-Jul-17	1825418.201	1695357.137	5622.01	AB	-	-	16.59	5605.42
	3-Nov-16					15.67	0.01	15.68	5606.34
	22-Jul-16					-	-	16.33	5605.68
	14-Jul-16				NA	14.34	0.03	14.37	5607.64
	19-Jan-16					14.99	0.04	15.03	5606.98
	9-Jan-15					15.58	0.04	15.62	5606.39
	10-Dec-14					16.20	0.34	16.54	5605.47
	3-Oct-14					15.60	0.05	15.65	5606.36
	26-Nov-13					14.31	0.02	14.33	5607.68
	12-Nov-13					14.39	0.01	14.40	5607.61
	29-Oct-13					-	-	13.97	5608.04
MW-7	6-Jul-17	1825370.518	1695355.899	5622.09	NA	-	-	17.03	5605.06
	21-Dec-16					-	-	15.13	5606.96
	3-Nov-16					-	-	15.77	5606.32
	22-Jul-16					-	-	16.09	5606.00
	14-Jul-16					-	-	14.52	5607.57
	19-Jan-16					-	-	14.00	5608.09
	9-Jan-15					-	-	15.25	5606.84
	10-Dec-14					Lost Data			
	3-Oct-14					-	-	15.84	5606.25
	26-Nov-13					-	-	14.50	5607.59
	12-Nov-13					-	-	14.62	5607.47
	29-Oct-13					-	-	14.17	5607.92

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Monitoring Well	Date Measured	Northing	Easting	Casing Elevation[1]	Passive NAPL Recovery Device	Depth to Product[1]	Product Thickness[2]	Depth to Water[1]	Groundwater Elevation[2]
MW-8	6-Jul-17	1825453.301	1695402.237	5623.10	NA	16.79	4.52	21.31	5605.18
	3-Nov-16					15.33	5.21	20.54	5606.47
	22-Jul-16				SK	15.98	6.72	22.70	5605.44
	14-Jul-16				NA	15.15	6.31	21.46	5606.38
	19-Jan-16					14.34	4.44	18.78	5607.65
	9-Jan-15					15.00	6.45	21.45	5606.49
	10-Dec-14					15.27	6.51	21.78	5606.21
	3-Oct-14					14.95	2.57	17.52	5607.51
	26-Nov-13					14.05	4.25	18.30	5607.99
	12-Nov-13					14.49	6.54	21.03	5606.98
	29-Oct-13					13.80	3.55	17.35	5608.42
MW-9	6-Jul-17	1825527.039	1695376.368	5623.105	AB	17.78	0.33	18.11	5605.24
	3-Nov-16					16.09	0.01	16.10	5607.01
	22-Jul-16					16.92	0.52	17.44	5606.06
	14-Jul-16				NA	15.13	0.63	15.76	5607.82
	19-Jan-16					14.65	0.63	15.28	5608.30
	9-Jan-15					-	-	16.46	5606.65
	10-Dec-14					-	-	17.15	5605.96
	3-Oct-14					-	-	16.69	5606.42
MW-10	6-Jul-17	1825456.216	1695363.611	5623.073	AB	17.93	0.01	17.94	5605.14
	3-Nov-16					16.23	0.01	16.24	5606.84
	22-Jul-16					-	-	17.22	5605.85
	14-Jul-16				NA	15.37	0.01	15.38	5607.69
	19-Jan-16					Sheen	-	14.89	5608.18
	9-Jan-15					-	-	16.28	5606.79
	9-Dec-14					Lost Data			
	3-Oct-14					-	-	16.78	5606.29
MW-11	6-Jul-17	1825451.121	1695456.836	5623.36	AB	17.47	2.35	19.82	5605.31
	3-Nov-16					16.85	1.21	18.06	5606.21
	22-Jul-16				SK	17.20	1.50	18.70	5605.79
	14-Jul-16				NA	16.01	3.09	19.10	5606.58
	19-Jan-16					15.47	3.66	19.13	5606.98
	9-Jan-15					15.89	3.36	19.25	5606.63
	10-Dec-14					16.52	3.63	20.15	5605.94
	3-Oct-14					15.55	0.16	15.71	5607.77
MW-12	6-Jul-17	1825373.895	1695248.568	5622.05	NA	-	-	NM	NM
	21-Dec-16					-	-	NM	NM
	3-Nov-16					-	-	NM	NM
	22-Jul-16					-	-	NM	NM
	14-Jul-16					-	-	NM	NM
	19-Jan-16					-	-	NM	NM
	9-Jan-15					-	-	15.21	5606.84
	9-Dec-14					-	-	15.94	5606.11
	3-Oct-14					-	-	15.52	5606.53
MW-13	6-Jul-17	1825203.294	1695365.307	5621.52	NA	-	-	16.61	5604.91
	21-Dec-16					-	-	14.87	5606.65
	3-Nov-16					-	-	14.57	5606.95
	22-Jul-16					-	-	14.46	5607.06
	14-Jul-16					-	-	14.24	5607.28
	19-Jan-16					-	-	NM	NM
	9-Jan-15					-	-	14.76	5606.76
	9-Dec-14					Lost Data			
	3-Oct-14					-	-	14.81	5606.71

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Monitoring Well	Date Measured	Northing	Easting	Casing Elevation[1]	Passive NAPL Recovery Device	Depth to Product[1]	Product Thickness[2]	Depth to Water[1]	Groundwater Elevation[2]
MW-14	6-Jul-17	1825595.649	1695371.248	5622.97	AB	17.46	0.67	18.13	5605.34
	3-Nov-16					15.90	0.10	16.00	5607.04
	22-Jul-16					16.68	0.38	17.06	5606.19
	14-Jul-16				NA	15.23	0.47	15.70	5607.62
	19-Jan-16					14.40	0.79	15.19	5608.37
	9-Jan-15					15.96	0.49	16.45	5606.88
	10-Dec-14					16.38	2.19	18.57	5606.04
	3-Oct-14					15.76	0.29	16.05	5607.13
MW-15	6-Jul-17	1825307.763	1695360.233	5622.104	AB	16.10	1.21	17.31	5605.70
	3-Nov-16					15.64	0.01	15.65	5606.46
	22-Jul-16				NA	15.11	3.44	18.55	5606.13
	14-Jul-16					14.35	1.59	15.94	5607.36
MW-16	6-Jul-17	1825306.899	1695428.889	5622.15	NA	-	-	16.98	5605.17
	21-Dec-16					-	-	15.17	5606.98
	3-Nov-16					-	-	15.35	5606.80
	22-Jul-16					-	-	15.36	5606.79
	14-Jul-16					-	-	14.54	5607.61
MW-17	6-Jul-17	1825469.015	1695521.707	5623.46	NA	-	-	17.69	5605.77
	21-Dec-16					-	-	15.84	5607.62
	3-Nov-16					-	-	16.37	5607.09
	22-Jul-16					-	-	16.58	5606.88
	14-Jul-16					-	-	15.20	5608.26
MW-18	6-Jul-17	1825597.296	1695477.297	5623.49	AB	18.05	0.19	18.24	5605.39
	3-Nov-16					16.10	0.01	16.11	5607.38
	22-Jul-16				NA	16.58	0.01	16.59	5606.90
	14-Jul-16					-	-	15.36	5608.13
MW-19	6-Jul-17	1825621.077	1695402.206	5623.58	NA	-	-	17.92	5605.66
	21-Dec-16					-	-	16.17	5607.41
	3-Nov-16					-	-	15.94	5607.64
	22-Jul-16					-	-	16.84	5606.74
	14-Jul-16					-	-	15.80	5607.78
MW-20	6-Jul-17	1825556.586	1695251.168	5623.18	NA	-	-	16.38	5606.80
	21-Dec-16					-	-	15.56	5607.62
	3-Nov-16					-	-	15.00	5608.18
	22-Jul-16					-	-	15.31	5607.87
	14-Jul-16					-	-	15.29	5607.89
MW-21	6-Jul-17	1825454.854	1695221.648	5622.16	NA		-	16.88	5605.28
	21-Dec-16						-	15.68	5606.48
	3-Nov-16						-	15.59	5606.57
	22-Jul-16						-	15.36	5606.80
	14-Jul-16						-	15.47	5606.69

NOTES:

[1] Measured in feet below the top of the casing

[2] Measured in feet

[3] Data collected before December 2011 was not collected by an EA representative.

RED = Indicates measurement taken after skimmer or sock removed; measuremnt not representative

AB = Aborbent sock installed

SK = Skimmer installed

NAPL = Nonaquious phase liquid

NA = Not applicable

NM = Not measured

TABLE 2. SAMPLE ANALYTICAL AND QUALITY CONTROL REQUIREMENTS
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Target Analytes	Matrix	Analytical Method	Sample Container	Preservative	Holding Time
VOCs	Water	EPA 8260B	3 x 40- mL glass vials	Mercuric Chloride; Cool to <6°C	14 days

NOTES:
<6°C = Less than 6 degrees Celsius
EPA = U.S. Environmental Protection Agency
VOCs = Volatile organic compounds + naphthalenes

TABLE 3. SUMMARY OF NAPL RECOVERY
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Monitor Well	Date Recovered	NAPL Thickness Prior to Bailing[1]	NAPL Thickness After Bailing[1]	Total NAPL Recovered[2]	Comments
MW-1	6-Jul-17	4.07	2.31	7.50	skimmer 3/4 full; ~3 inches water
	3-Nov-16	2.40	0.10	1.50	skimmer 1/2 full
	21-Oct-16	1.12	0.27	0.75	skimmer 1/2 full
	6-Oct-16	2.34	0.01	1.25	skimmer 1/2 full
	22-Sep-16	0.83	0.11	0.75	skimmer 1/2 full
	15-Sep-16	3.68	0.01	1.50	skimmer 1/2 full
	31-Aug-16	4.48	0.05	3.00	skimmer 1/2 full
	18-Aug-16	4.80	0.75	3.50	skimmer 1/2 full
	11-Aug-16	4.75	0.80	4.00	skimmer 1/2 full
	4-Aug-16	4.87	0.94	5.00	skimmer 1/2 full
	28-Jul-16	4.55	0.16	3.00	skimmer 1/2 full
	22-Jul-16	2.45	1.55	3.25	skimmer 1/2 full
	14-Jul-16	4.70	0.01	3.25	set skimmer
	19-Jan-16	3.93	1.21	4.50	
	9-Jan-15	3.49	NM	NM	
	10-Dec-14	3.20	NM	NM	
	3-Oct-14	0.04	NM	0.00	
	26-Nov-13	1.08	NM	0.30	
	12-Nov-13	0.46	NM	0.30	
	29-Oct-13	1.89	NM	1.50	
	10-Jul-13	0.24	NM	0.00	
	27-Jun-13	0.37	NM	0.10	
	3-Jun-13	0.28	NM	0.50	
	27-Feb-13	0.34	NM	0.00	
	4-Feb-13	NM	NM	0.00	
	1-Feb-13	NM	NM	0.00	
MW-2	6-Jul-17	2.85	0.35	2.00	skimmer full; 1/4 NAPL, 3/4 water, soaked filter in NAPL
	3-Nov-16	2.52	0.15	2.00	skimmer full
	21-Oct-16	2.94	0.01	2.25	skimmer 1/2 full
	6-Oct-16	4.30	0.20	2.50	skimmer full
	22-Sep-16	3.88	0.26	2.25	skimmer full
	15-Sep-16	5.30	0.24	3.00	skimmer full
	31-Aug-16	5.36	0.26	2.50	skimmer full
	18-Aug-16	3.07	0.38	3.00	skimmer full
	11-Aug-16	3.41	0.27	3.00	skimmer full
	4-Aug-16	3.00	0.36	3.00	skimmer full
	28-Jul-16	3.59	0.18	2.25	skimmer full
	22-Jul-16	3.57	0.06	2.50	skimmer full
	14-Jul-16	3.88	0.01	2.75	set skimmer
	19-Jan-16	3.60	0.85	3.75	
	9-Jan-15	3.74	NM	NM	
	10-Dec-14	2.87	NM	NM	
	3-Oct-14	0.08	NM	0.00	
	26-Nov-13	5.61	NM	3.00	
	12-Nov-13	5.06	NM	2.80	
	29-Oct-13	6.02	NM	3.50	
	10-Jul-13	3.83	NM	2.50	
	27-Jun-13	4.22	NM	3.00	
	3-Jun-13	3.97	NM	4.50	
	27-Feb-13	5.45	NM	0.00	
	4-Feb-13	NM	NM	5.00	
	1-Feb-13	NM	NM	4.50	

TABLE 3. SUMMARY OF NAPL RECOVERY
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Monitor Well	Date Recovered	NAPL Thickness Prior to Bailing[1]	NAPL Thickness After Bailing[1]	Total NAPL Recovered[2]	Comments
MW-3	6-Jul-17	3.23	0.01	1.50	skimmer full
	3-Nov-16	0.49	0.10	0.25	skimmer 1/2 full
	21-Oct-16	0.70	0.01	0.50	skimmer 1/3 full
	6-Oct-16	1.49	0.11	1.00	skimmer full
	22-Sep-16	1.81	0.07	1.25	skimmer full
	15-Sep-16	3.82	0.24	2.50	skimmer full
	31-Aug-16	3.12	0.13	2.25	skimmer full
	18-Aug-16	2.78	0.20	2.50	skimmer full
	11-Aug-16	3.10	0.28	3.00	skimmer full
	4-Aug-16	3.57	0.47	3.00	skimmer full of water only; replaced skimmer with skimmer from MW-11
	28-Jul-16	6.41	0.17	3.00	skimmer full of water only; soaked filter in NAPL
	22-Jul-16	6.48	0.15	5.50	skimmer full of water only
	14-Jul-16	7.95	0.01	5.50	set skimmer
	19-Jan-16	5.91	1.10	5.00	
	9-Jan-15	6.90	NM	NM	
	10-Dec-14	7.51	NM	NM	
	3-Oct-14	2.95	NM	0.00	
	26-Nov-13	6.00	NM	4.30	
	12-Nov-13	7.43	NM	5.00	
	29-Oct-13	6.96	NM	7.00	
	10-Jul-13	3.98	NM	3.00	
	27-Jun-13	4.45	NM	3.50	
	3-Jun-13	4.11	NM	4.50	
	27-Feb-13	2.89	NM	0.00	
	4-Feb-13	NM	NM	2.00	
	1-Feb-13	NM	NM	0.50	
MW-6	6-Jul-17	-	-	0.10	20 inchs of staining; set new sock
	3-Nov-16	0.01	-	0.06	12 inchs of staining; set new sock
	21-Oct-16	0.00	-	0.01	1 inch of staining; set new sock
	6-Oct-16	0.01	-	0.04	8 inches of staining; set new sock
	22-Sep-16	0.01	-	0.00	no staining; reset same sock
	15-Sep-16	0.00	-	0.06	11 inches of staining; set new sock
	31-Aug-16	0.01	-	0.07	14 inches of staining; set new sock
	18-Aug-16	0.01	-	0.08	16 inches of staining; set new sock
	11-Aug-16	0.00	-	0.08	16 inches of staining; set new sock
	4-Aug-16	0.00	-	0.08	16 inches of staining; set new sock
	28-Jul-16	0.00	-	0.00	no staining; reset same sock
	22-Jul-16	0.00	-	0.01	2 inches of staining; set new sock
	14-Jul-16	0.03	0.00	negligible	set new sock
	19-Jan-16	0.04	0.00	negligible	
	9-Jan-15	0.04	NM	0.00	
	10-Dec-14	0.34	NM	0.00	
	3-Oct-14	0.05	NM	0.00	
	26-Nov-13	0.02	NM	0.00	
	12-Nov-13	0.01	NM	0.00	
	29-Oct-13	-	-	0.00	

TABLE 3. SUMMARY OF NAPL RECOVERY
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Monitor Well	Date Recovered	NAPL Thickness Prior to Bailing[1]	NAPL Thickness After Bailing[1]	Total NAPL Recovered[2]	Comments
MW-8	6-Jul-17	4.52	0.24	1.00	
	3-Nov-16	5.21	0.07	2.00	
	21-Oct-16	6.09	0.05	2.00	
	6-Oct-16	6.57	0.20	2.25	
	22-Sep-16	5.91	0.05	2.25	
	15-Sep-16	4.36	0.15	2.50	skimmer 1/2 full of NAPL, 1/2 full water; removed skimmer
	31-Aug-16	3.86	0.30	2.50	skimmer 1/3 full of NAPL, 2/3 full water; soaked filter in NAPL
	18-Aug-16	6.41	0.04	3.00	skimmer full
	11-Aug-16	6.05	0.06	3.00	skimmer full
	4-Aug-16	3.72	0.17	3.00	skimmer full
	28-Jul-16	6.88	0.13	1.75	skimmer full
	22-Jul-16	6.72	0.10	3.00	skimmer 3/4 full
	14-Jul-16	6.31	0.01	3.00	set skimmer
	19-Jan-16	4.44	0.55	3.25	
	9-Jan-15	6.45	NM	NM	
	10-Dec-14	6.51	NM	NM	
	3-Oct-14	2.57	NM	0.00	
	26-Nov-13	4.25	NM	3.50	
	12-Nov-13	6.54	NM	3.00	
	29-Oct-13	3.55	NM	2.50	
MW-9	6-Jul-17	0.33	0.01	0.09	17 inches of staining; set new sock
	3-Nov-16	0.01	-	0.05	9 inches of staining; set new sock
	21-Oct-16	0.01	-	0.01	2 inches of staining; set new sock
	6-Oct-16	0.00	-	0.03	6 inches of staining; set new sock
	22-Sep-16	0.00	-	0.00	no staining; reset same sock
	15-Sep-16	0.00	-	0.00	no staining; reset same sock
	31-Aug-16	0.01	-	0.06	11 inches of staining; set new sock
	18-Aug-16	0.00	-	0.07	13 inches of staining; set new sock
	11-Aug-16	0.00	-	0.00	no staining; reset same sock
	4-Aug-16	0.01	-	0.08	16 inches of staining; set new sock
	28-Jul-16	0.01	-	0.12	2 feet of staining; set new sock
	22-Jul-16	0.52	0.11	0.31	1 foot of staining; set new sock
	14-Jul-16	0.63	0.01	0.25	set new sock
	19-Jan-16	0.63	0.01	negligible	
	9-Jan-15	-	-	0.00	
	10-Dec-14	-	-	0.00	
	3-Oct-14	-	-	0.00	
MW-10	6-Jul-17	0.01	-	0.07	13 inches of staining; set new sock
	3-Nov-16	0.01	-	0.03	6 inches of staining; set new sock
	21-Oct-16	0.00	-	0.00	no staining; reset same sock
	6-Oct-16	0.00	-	0.03	5 inches of staining; set new sock
	22-Sep-16	0.00	-	0.00	no staining; reset same sock
	15-Sep-16	0.00	-	0.02	4.5 inches of staining; set new sock
	31-Aug-16	0.00	-	0.06	11 inches of staining; set new sock
	18-Aug-16	0.00	-	0.06	11 inches of staining; set new sock
	11-Aug-16	0.00	-	0.06	1 foot of staining; set new sock
	4-Aug-16	0.00	-	0.00	no staining; reset same sock
	28-Jul-16	0.00	-	0.06	1 foot of staining; set new sock
	22-Jul-16	0.00	-	0.07	14 inches of staining; set new sock
	14-Jul-16	0.01	-	0.00	set new sock
	19-Jan-16	Sheen		0.00	
	9-Jan-15	-	-	0.00	
	9-Dec-14	Lost Data		0.00	
	3-Oct-14	-	-	0.00	

TABLE 3. SUMMARY OF NAPL RECOVERY
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Monitor Well	Date Recovered	NAPL Thickness Prior to Bailing[1]	NAPL Thickness After Bailing[1]	Total NAPL Recovered[2]	Comments
MW-11	6-Jul-17	2.35	1.43	5.02	3.5 inches of staining; set new sock
	3-Nov-16	1.21	0.01	0.29	7 inches of staining; set new sock
	21-Oct-16	1.74	0.05	0.77	3 inches of staining; set new sock
	6-Oct-16	1.88	0.09	0.79	8 inches of staining; set new sock
	22-Sep-16	0.85	0.05	0.29	7 inches of staining; set new sock
	15-Sep-16	0.52	0.01	0.06	11 inches of staining; set new sock
	31-Aug-16	0.20	0.01	0.09	18 inches of staining; set new sock
	18-Aug-16	0.36	0.01	0.08	15 inches of staining; set new sock
	11-Aug-16	0.26	0.01	0.06	1 foot of staining; set new sock
	4-Aug-16	0.18	0.01	0.25	skimmer 1/2 full; removed skimmer; installed sock
	28-Jul-16	0.25	0.01	0.10	skimmer 1/2 full
	22-Jul-16	1.50	0.16	1.25	skimmer full
	14-Jul-16	3.09	0.01	2.00	set skimmer
	19-Jan-16	3.66	0.62	2.75	
	9-Jan-15	3.36	NM	NM	
	10-Dec-14	3.63	NM	NM	
	3-Oct-14	0.16	NM	0.00	
MW-14	6-Jul-17	0.67	0.01	0.05	10 inches of staining; set new sock
	3-Nov-16	0.10	0.01	0.07	13 inches of staining; set new sock
	21-Oct-16	0.12	0.01	0.01	2 inches of staining; set new sock
	6-Oct-16	0.05	0.00	0.03	6 inches of staining; set new sock
	22-Sep-16	0.01	-	0.02	4 inches of staining; set new sock
	15-Sep-16	0.01	-	0.02	4 inches of staining; set new sock
	31-Aug-16	0.00	-	0.06	11 inches of staining; set new sock
	18-Aug-16	0.01	-	0.07	14 inches of staining; set new sock
	11-Aug-16	0.00	-	0.02	3 inches of staining; set new sock
	4-Aug-16	0.01	-	0.01	2 inches of staining; set new sock
	28-Jul-16	0.12	0.01	0.10	19 inches of staining; set new sock
	22-Jul-16	0.38	0.19	0.33	16 inches of staining; set new sock
	14-Jul-16	0.47	0.01	0.10	set new sock
	19-Jan-16	0.79	0.01	0.25	
	9-Jan-15	0.49	NM	NM	
	10-Dec-14	2.19	NM	NM	
	3-Oct-14	0.29	NM	0.00	
MW-15	6-Jul-17	1.21	-	0.54	7 inches of staining; set new sock
	3-Nov-16	0.01	-	0.03	5 inches of staining; set new sock
	21-Oct-16	0.27	0.01	0.04	8.5 inches of staining; set new sock
	6-Oct-16	0.20	0.01	0.08	16 inches of staining; set new sock
	22-Sep-16	0.08	0.01	0.08	16 inches of staining; set new sock
	15-Sep-16	0.13	0.01	0.10	19 inches of staining; set new sock
	31-Aug-16	0.06	0.00	0.15	29 inches of staining; set new sock
	18-Aug-16	1.05	0.01	0.15	30 inches of staining; set new sock
	11-Aug-16	0.32	0.04	0.00	no staining; reset same sock
	4-Aug-16	0.60	0.03	0.93	3 feet of staining; set new sock
	28-Jul-16	0.73	0.01	0.25	set new sock
	22-Jul-16	3.44	0.87	2.50	
	14-Jul-16	1.59	0.01	1.50	

TABLE 3. SUMMARY OF NAPL RECOVERY
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Monitor Well	Date Recovered	NAPL Thickness Prior to Bailing[1]	NAPL Thickness After Bailing[1]	Total NAPL Recovered[2]	Comments
MW-18	6-Jul-17	0.19	0.01	0.04	8 inches of staining; set new sock
	3-Nov-16	0.01	-	0.09	18 inches of staining; set new sock
	21-Oct-16	0.00	-	0.02	3 inches of staining; set new sock
	6-Oct-16	0.01	-	0.03	6 inches of staining; set new sock
	22-Sep-16	0.00	-	0.00	no staining; reset same sock
	15-Sep-16	0.00	-	0.09	17 inches of staining; set new sock
	31-Aug-16	0.00	-	0.09	18 inches of staining; set new sock
	18-Aug-16	0.00	-	0.11	21 inches of staining; set new sock
	11-Aug-16	0.00	-	0.09	18 inches of staining; set new sock
	4-Aug-16	0.00	-	0.00	no staining; reset same sock
	28-Jul-16	0.00	-	0.08	15 inches of staining; set new sock
	22-Jul-16	0.01	-	0.00	set new sock
Total NAPL Recovered July 2017				**17.89**	
Cumulative Total NAPL Recovered at the Site[2]				**244.97**	

NOTES:

NAPL - Non Aqueous Phase Liquid

[1] Measured in feet.

[2] Measured in gallons.

Absorbent sock capacity = 0.005 gallons per inch

All NAPL recovered is placed in a drum located at the Fairview Station Site in Espanola, NM.

TABLE 4. SUMMARY OF GROUNDWATER SAMPLE RESULTS VOLATILE ORGANIC COMPOUNDS AND DISSOLVED LEAD
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Monitoring Well	Date Measured	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	EDB (µg/L)	EDC (µg/L)	Napthalene[1] (µg/L)	1-Methylnapthalene[1] (µg/L)	2-Methylnapthalene[1] (µg/L)	Total Naphthalenes[1] (µg/L)	Dissolved Lead (mg/L)
MW-1	3-Nov-16	NAPL - Not Sampled											
	14-Jul-16	NAPL - Not Sampled											
	19-Jan-16	NAPL - Not Sampled											
	9-Dec-14	NAPL - Not Sampled											
	4-Feb-13	16,000	21,000	3,700	14,000	3,900	<10	64	630	190	350	1,170	0.0035
MW-2	3-Nov-16	NAPL - Not Sampled											
	14-Jul-16	NAPL - Not Sampled											
	19-Jan-16	NAPL - Not Sampled											
	10-Dec-14	24,000	23,000	2,600	12,000	27,000	0.2	<500	<1000	<2,000	<2,000	<2,000	NA
	4-Feb-13	NAPL - Not Sampled											
MW-3	3-Nov-16	NAPL - Not Sampled											
	14-Jul-16	NAPL - Not Sampled											
	19-Jan-16	NAPL - Not Sampled											
	9-Dec-14	NAPL - Not Sampled											
	4-Feb-13	NAPL - Not Sampled											
MW-4	6-Jul-17	<1.0	<1.0	<1.0	<1.5	62	<1.0	4.4	<2.0	<4.0	<4.0	<4.0	NA
	3-Nov-16	3.4	<1.0	<1.0	<1.5	61	<1.0	4.6	<2.0	<4.0	<4.0	<4.0	NA
	13-Jul-16	4.8	<1.0	<1.0	<1.5	130	<0.010	17	<2.0	<4.0	<4.0	<4.0	NA
	19-Jan-16	<1.0	<1.0	<1.0	<1.5	42	<0.010	7.1	<2.0	<4.0	<4.0	<4.0	NA
	9-Dec-14	<1.0	<1.0	<1.0	<1.5	13	<0.01	2.4	<2.0	<4.0	<4.0	<4.0	NA
	29-Oct-13	<1.0	<1.0	<1.0	<2.0	31	<0.01	8.8	NA	NA	NA	NA	<0.005
MW-5	6-Jul-17	13,000	980	1,100	1,000	2,400	<20	69	190	<80	<80	190	NA
	3-Nov-16	12,000	540	1,200	580	2,200	<100	<100	230	<400	<400	230	NA
	14-Jul-16	13,000	930	1,200	820	2,600	<1.0	<1.0	270	48	80	398	NA
	19-Jan-16	16,000	470	1,200	390	2,700	<0.010	130	260	<40	68	328	NA
	9-Dec-14	8,900	940	1,200	1,500	1,700	<0.01	<100	230	<400	<400	230	NA
	29-Oct-13	4,300	1,100	740	2,000	540	<0.01	44	130	36	69	235	<0.005
MW-6	6-Jul-17	690	3,900	2,300	13,000	53	<50	<50	660	<200	210	870	NA
	3-Nov-16	NAPL - Not Sampled											
	14-Jul-16	NAPL - Not Sampled											
	19-Jan-16	NAPL - Not Sampled											
	10-Dec-14	5,500	29,000	5,100	28,000	<500	<0.01	<500	1,100	<2,000	<2,000	1,100	NA
	29-Oct-13	10,000	23,000	3,100	13,000	110	<0.01	<50	450	92	170	712	<0.005
MW-7	6-Jul-17	8,200	840	710	1,000	3,400	<10	22	120	<40	<40	120	NA
	3-Nov-16	7,000	1,600	630	1,500	3,400	<20	28	220	<80	<80	220	NA
	14-Jul-16	4,800	500	360	590	2,500	<1.0	<1.0	150	37	46	233	NA
	19-Jan-16	3,300	640	460	1,000	1,500	<0.010	5.7	160	22	37	219	NA
	9-Dec-14	4,000	420	510	1,100	1,500	<0.01	<50	130	<200	<200	130	NA
	29-Oct-13	7,700	7,400	1,700	8,900	3,500	<0.01	<50	370	88	180	638	<0.005
MW-8	3-Nov-16	NAPL - Not Sampled											
	14-Jul-16	NAPL - Not Sampled											
	19-Jan-16	NAPL - Not Sampled											
	9-Dec-14	NAPL - Not Sampled											
	29-Oct-13	NAPL - Not Sampled											
MW-9	3-Nov-16	NAPL - Not Sampled											
	14-Jul-16	NAPL - Not Sampled											
	19-Jan-16	NAPL - Not Sampled											
	9-Dec-14	2,300	2,600	2,600	12,000	<100	<0.01	<100	720	<400	450	1,170	NA
	21-Jul-14	2,000	1,100	1,800	6,600	<100	<0.01	<100	330	110	200	640	0.014
MW-10	3-Nov-16	NAPL - Not Sampled											
	14-Jul-16	NAPL - Not Sampled											
	19-Jan-16	NAPL - Not Sampled											
	9-Dec-14	3,900	2,000	2,000	6,100	<100	<0.01	<100	410	<400	<400	410	NA
	22-Jul-14	4,200	5,900	2,700	10,000	170	<0.01	<100	470	160	310	940	0.084
MW-11	3-Nov-16	NAPL - Not Sampled											
	14-Jul-16	NAPL - Not Sampled											
	19-Jan-16	NAPL - Not Sampled											
	9-Dec-14	NAPL - Not Sampled											
	22-Jul-14	10,000	16,000	2,600	11,000	330	<0.01	<100	540	190	360	1,090	0.088
MW-12	6-Jul-17												
	3-Nov-16	No Access - Not Sampled											
	14-Jul-16	No Access - Not Sampled											
	19-Jan-16	No Access - Not Sampled											
	9-Dec-14	1,900	310	470	710	100	<0.01	<50	<100	<200	<200	<200	NA
	21-Aug-14	1,800	110	340	810	230	<0.01	<10	50	8.0	13	71	0.130
MW-13	6-Jul-17	1,900	11	190	<15	<10	<10	<10	36	<40	<40	36	NA
	3-Nov-16	1,900	18	220	73	10	<10	<10	59	<40	<40	59	NA
	14-Jul-16	1,900	13	280	71	9.5	<1.0	<1.0	42	9.8	14	66	NA
	19-Jan-16	No Access - Not Sampled											
	9-Dec-14	420	5.0	78	90	<5.0	<0.01	<5.0	24	<20	<20	24	NA
	18-Jul-14	130	<10	35	24	<10	<0.01	<10	9.6	20	35	65	0.062

TABLE 4. SUMMARY OF GROUNDWATER SAMPLE RESULTS VOLATILE ORGANIC COMPOUNDS AND DISSOLVED LEAD
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Monitoring Well	Date Measured	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (µg/L)	MTBE (µg/L)	EDB (µg/L)	EDC (µg/L)	Napthalene[1] (µg/L)	1-Methylnapthalene[1] (µg/L)	2-Methylnapthalene[1] (µg/L)	Total Naphthalenes[1] (µg/L)	Dissolved Lead (mg/L)
MW-14	3-Nov-16	NAPL - Not Sampled											
	14-Jul-16	NAPL - Not Sampled											
	19-Jan-16	NAPL - Not Sampled											
	9-Dec-14	780	1,700	290	1,700	<100	15	170	200	<400	<400	200	NA
	21-Aug-14	480	210	65	160	<10	2.3	84	18	3.7	3.3	25	0.020
MW-15	3-Nov-16	NAPL - Not Sampled											
	14-Jul-16	NAPL - Not Sampled											
MW-16	6-Jul-17	1,700	490	450	500	29	<1.0	<1.0	130	30	39	199	NA
	3-Nov-16	73	23	80	110	3.4	<1.0	<1.0	42	11	16	69	NA
	14-Jul-16	67	78	150	290	<1.0	<1.0	<1.0	67	17	23	107	NA
MW-17	6-Jul-17	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0	<4.0	<4.0	<4.0	NA
	3-Nov-16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0	<4.0	<4.0	<4.0	NA
	14-Jul-16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0	<4.0	<4.0	<4.0	NA
MW-18	3-Nov-16	NAPL - Not Sampled											
	14-Jul-16	1,800	610	1,500	4,300	<1.0	<1.0	<1.0	460	76	140	676	NA
MW-19	6-Jul-17	27	1.7	<1.0	5.1	<1.0	<1.0	2.2	2.2	<4.0	<4.0	2.2	NA
	3-Nov-16	20	2.3	<1.0	5.7	<1.0	<1.0	1.4	<2.0	<4.0	<4.0	<4.0	NA
	14-Jul-16	75	160	45	110	<1.0	<1.0	3.2	15	6.4	12	33	NA
MW-20	6-Jul-17	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0	<4.0	<4.0	<4.0	NA
	3-Nov-16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0	<4.0	<4.0	<4.0	NA
	14-Jul-16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0	<4.0	<4.0	<4.0	NA
MW-21	6-Jul-17	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0	<4.0	<4.0	<4.0	NA
	3-Nov-16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0	<4.0	<4.0	<4.0	NA
	14-Jul-16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	1.1	<2.0	<4.0	<4.0	<4.0	NA
NMWQCC and EIB Standards		10	750	750	620	100	0.1	10				30*	0.05

NOTES:
All concentrations in micrograms per liter (ug/L) which is equivalent to parts per billion (ppb)
All samples analyzed for volatile organic compounds by EPA method 8260B
EDB = Ethylene dibromide; Sample was analyzed for EDB using EPA method 504.1
EDC = Ethylene dichloride
EIB = Environmental Improvement Board
MTBE = Methyl tertiary butyl ether
NA = Not analyzed
NMWQCC = New Mexico Water Quality Control Commission
Dissolved lead analyzed by EPA method 6010B
* Standard for Total Naphthalenes = sum of Naphthalenes, 1-Methylnapthalenes, and 2-Methylnaphthalenes
[1] = Naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene were analized by EPA method 8270C prior to December 2014

TABLE 5. SUMMARY OF FIELD PARAMETERS
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Well Number	Date Sampled	pH	SpC (uS/cm)	Temp	DO (mg/L)
MW-1	6-Jul-17	NAPL - Not Measured			
	3-Nov-16	NAPL - Not Measured			
	14-Jul-16	NAPL - Not Measured			
	19-Jan-16	NAPL - Not Measured			
MW-2	6-Jul-17	NAPL - Not Measured			
	3-Nov-16	NAPL - Not Measured			
	14-Jul-16	NAPL - Not Measured			
	19-Jan-16	NAPL - Not Measured			
MW-3	6-Jul-17	NAPL - Not Measured			
	3-Nov-16	NAPL - Not Measured			
	14-Jul-16	NAPL - Not Measured			
	19-Jan-16	NAPL - Not Measured			
MW-4	6-Jul-17	7.24	1,312	16.4	1.12
	3-Nov-16	7.14	1,375	16.1	2.32
	13-Jul-16	7.10	1,624	15.9	NM
	19-Jan-16	6.74	706	16.0	NM
MW-5	6-Jul-17	7.27	2,070	18.8	0.98
	3-Nov-16	7.26	2,110	17.1	1.90
	14-Jul-16	7.14	1,600	15.6	NM
	19-Jan-16	7.18	1,808	15.8	NM
MW-6	6-Jul-17	7.13	2,600	18.4	1.07
	3-Nov-16	NAPL - Not Measured			
	14-Jul-16	NAPL - Not Measured			
	19-Jan-16	NAPL - Not Measured			
MW-7	6-Jul-17	7.71	1,295	16.9	1.07
	3-Nov-16	7.18	1,259	17.5	1.66
	14-Jul-16	7.10	1,088	16.0	NM
	19-Jan-16	7.17	1,069	16.6	NM
MW-8	6-Jul-17	NAPL - Not Measured			
	3-Nov-16	NAPL - Not Measured			
	14-Jul-16	NAPL - Not Measured			
	19-Jan-16	NAPL - Not Measured			
MW-9	6-Jul-17	NAPL - Not Measured			
	3-Nov-16	NAPL - Not Measured			
	14-Jul-16	NAPL - Not Measured			
	19-Jan-16	NAPL - Not Measured			
MW-10	6-Jul-17	NAPL - Not Measured			
	3-Nov-16	NAPL - Not Measured			
	14-Jul-16	NAPL - Not Measured			
	19-Jan-16	6.86	1,642	16.2	NM

TABLE 5. SUMMARY OF FIELD PARAMETERS
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Well Number	Date Sampled	pH	SpC (uS/cm)	Temp	DO (mg/L)
MW-11	6-Jul-17	NAPL - Not Measured			
	3-Nov-16	NAPL - Not Measured			
	14-Jul-16	NAPL - Not Measured			
	19-Jan-16	NAPL - Not Measured			
MW-12	6-Jul-17	No Access			
	3-Nov-16	No Access			
	14-Jul-16	No Access			
	19-Jan-16	No Access			
MW-13	6-Jul-17	7.37	2,280	15.9	1.03
	3-Nov-16	7.26	1,830	15.3	4.17
	14-Jul-16	7.24	1,584	14.8	NM
	19-Jan-16	No Access			
MW-14	6-Jul-17	NAPL - Not Measured			
	14-Jul-16	NAPL - Not Measured			
	14-Jul-16	NAPL - Not Measured			
	19-Jan-16	NAPL - Not Measured			
MW-15	6-Jul-17	NAPL - Not Measured			
	3-Nov-16	NAPL - Not Measured			
	14-Jul-16	7.80	790	17.9	NM
MW-16	6-Jul-17	7.88	1,878	16.8	1.39
	3-Nov-16	7.45	1,278	16.7	2.19
	14-Jul-16	7.75	770	16.3	NM
MW-17	6-Jul-17	6.98	1,176	16.1	4.31
	3-Nov-16	7.34	895.5	16.7	5.22
	14-Jul-16	7.65	682	16.8	NM
MW-18	6-Jul-17	NAPL - Not Measured			
	3-Nov-16	NAPL - Not Measured			
	14-Jul-16	7.81	951	16.4	NM
MW-19	6-Jul-17	7.17	5,970	16.6	0.98
	3-Nov-16	7.16	4,050	16.6	2.16
	14-Jul-16	7.70	1,758	16.8	NM
MW-20	6-Jul-17	7.04	7,030	16.9	1.94
	3-Nov-16	6.98	7,850	17.6	1.78
	14-Jul-16	7.71	5,380	17.7	NM

TABLE 5. SUMMARY OF FIELD PARAMETERS
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

Well Number	Date Sampled	pH	SpC (uS/cm)	Temp	DO (mg/L)
MW-21	6-Jul-17	6.93	5,390	17.1	2.23
	3-Nov-16	7.07	6,230	17.1	2.05
	14-Jul-16	7.71	966	18.3	NM

NOTES:
DO = Dissolved oxygen
mg/L = Milligrams per liter
NAPL = Non-aqueous phase liquid
SpC = Specific conductance
uS/cm = Microsiemens per centimeter

FIGURES

LEGEND:

- MW-1 — MONITORING WELL
- MW-8 — MONITORING WELL WITH SKIMMER OR ABSORBENT SOCK INSTALLED
- B-4 — SOIL BORING
- BUILDING
- UNDERGROUND STORAGE TANK (UST)
- SITE BOUNDARY

NOTES:
1. AERIAL SOURCE: GOOGLE EARTH 2015.
2. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L).

50 25 0 50

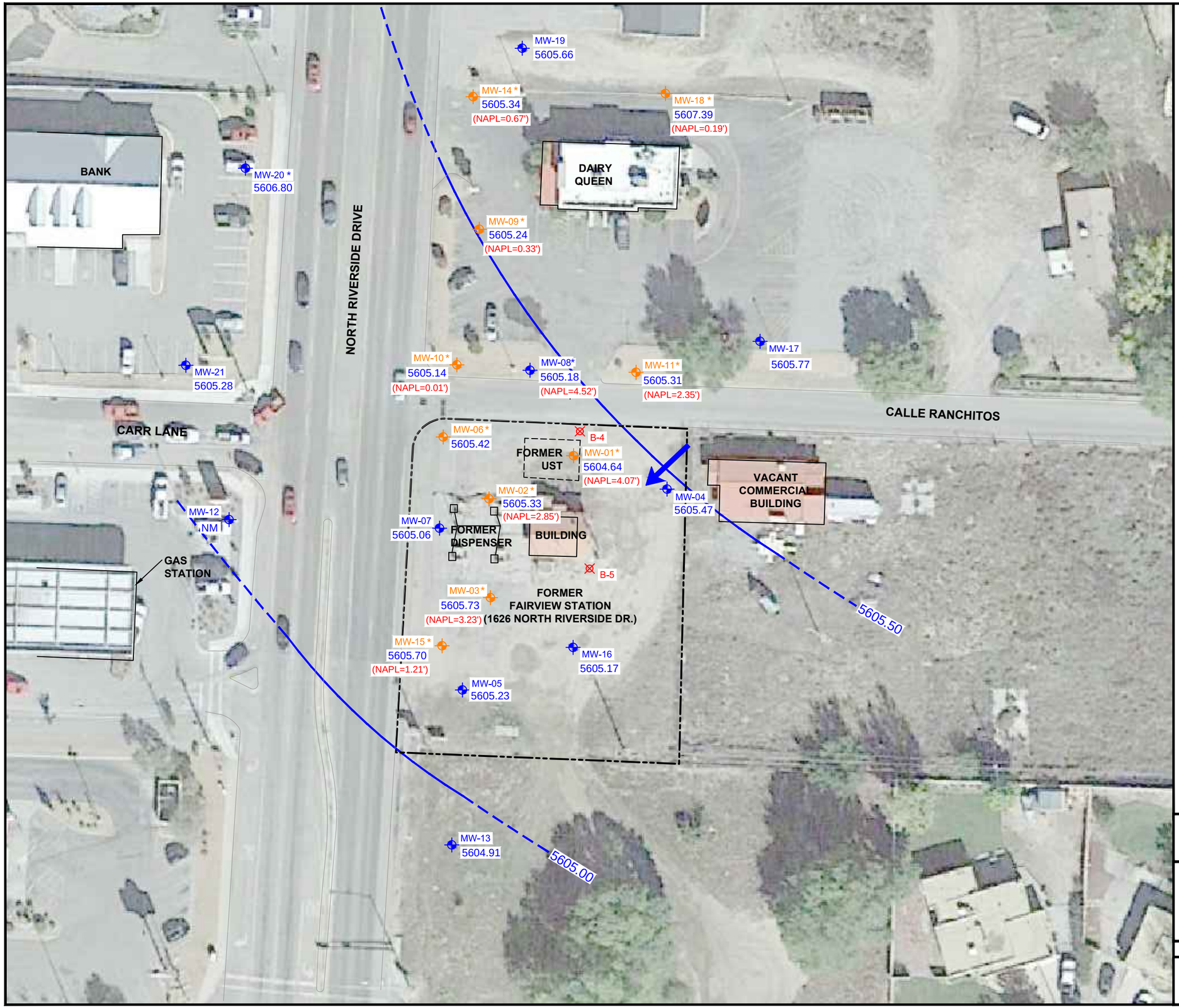
SCALE IN FEET

FAIRVIEW STATION
ESPANOLA, NEW MEXICO

FIGURE 1
SITE MAP

PROJECT #:	6288921	PROJECT PHASE:	01	PROJECT MANAGER:	TM

320 Gold Avenue, SW Suite 1300
Albuquerque, NM 87102
Phone: (505) 224-9013
Fax: (505) 224-9016
EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC., PBC



LEGEND:

- MW-1 — MONITORING WELL
- MW-8 — MONITORING WELL WITH SKIMMER OR ABSORBENT SOCK INSTALLED
- B-4 — SOIL BORING
- BUILDING
- UNDERGROUND STORAGE TANK (UST)
- SITE BOUNDARY
- HISTORIC DIRECTION OF GROUNDWATER FLOW
- NAPL — NON-AQUEOUS PHASE LIQUID
- NM — NOT MEASURED
- 5607.00 — GROUNDWATER POTENTIOMETRIC ELEVATION CONTOUR IN FEET ABOVE MSL (DASHED WHERE INFERRED)
- * — WELL NOT USED IN CONTOURING

NOTES:

1. AERIAL SOURCE: GOOGLE EARTH 2015.
2. NAPL THICKNESS REPRESENTS NAPL THICKNESS AFTER SKIMMER OR ABSORBENT SOCK HAS BEEN REMOVED.
3. MW-20 NOT USED IN CONTOURING. WELL IS UNDER PRESSURE AND WATER LEVEL IS NOT AN ACCURATE MEASUREMENT.

50 25 0 50

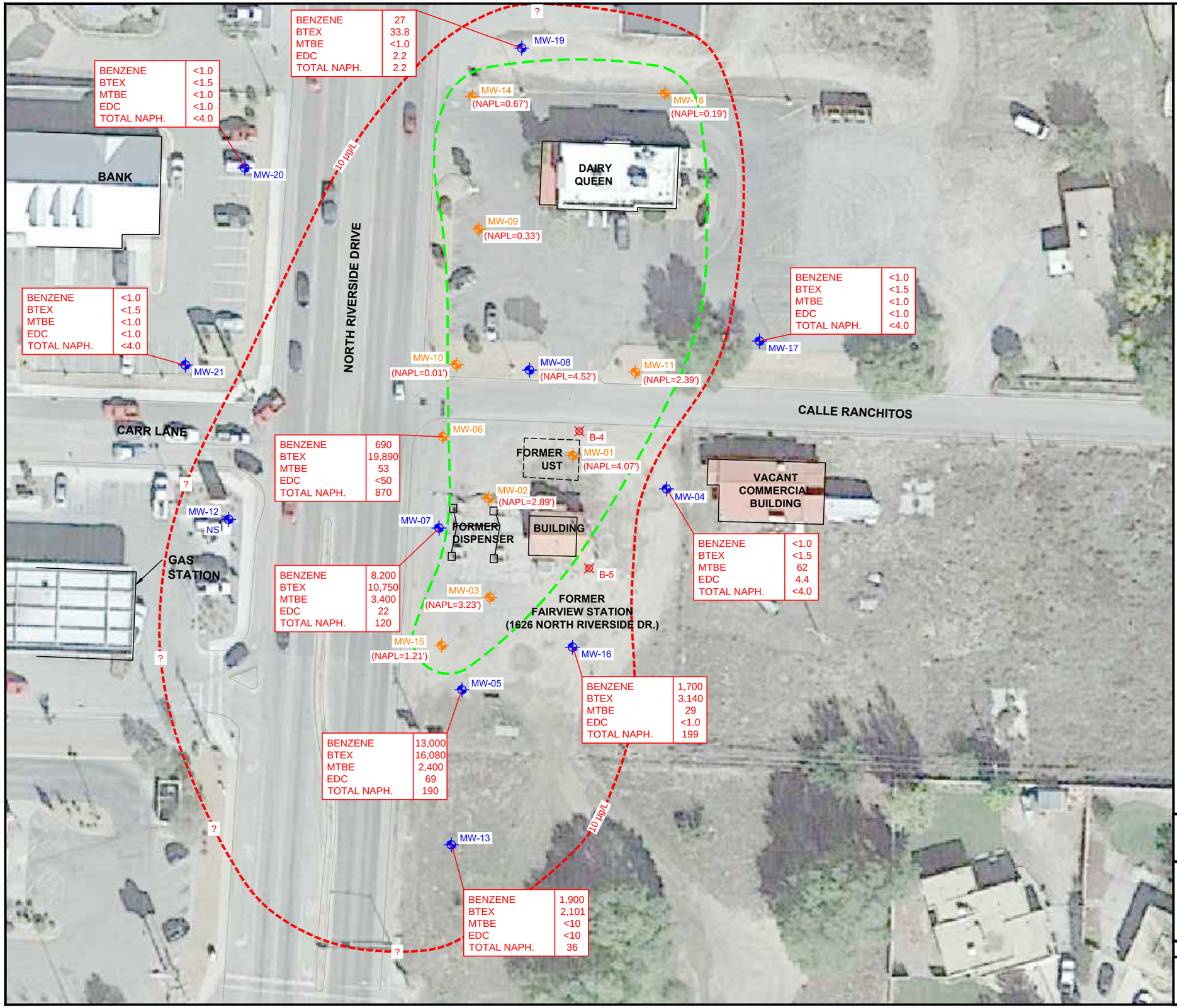
SCALE IN FEET

FAIRVIEW STATION
ESPANOLA, NEW MEXICO

FIGURE 2
POTENTIOMETRIC SURFACE MAP
JULY 2017

PROJECT #:	6288921	PROJECT PHASE:	01	PROJECT MANAGER:	TM

320 Gold Avenue, SW Suite 1300
Albuquerque, NM 87102
Phone: (505) 224-9013
EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC., PBC



LEGEND:

MW-1	MONITORING WELL
MW-8	MONITORING WELL WITH SKIMMER OR ABSORBENT SOCK INSTALLED
B-4	SOIL BORING
	BUILDING
	UNDERGROUND STORAGE TANK (UST)
NAPL	NON-AQUEOUS PHASE LIQUID
10 µg/L	ESTIMATED EXTENT OF BENZENE (10 µg/L)
BTEX	BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
MTBE	METHYL TERTIARY BUTYL ETHER
EDC	1,2- DICHLOROETHANE
TOTAL NAPH.	TOTAL NAPHTHALENES
NS	NOT SAMPLED
	ESTIMATED EXTENT OF NAPL

NOTES:
1. AERIAL SOURCE: GOOGLE EARTH 2015.
2. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L).

50 25 0 50
SCALE IN FEET

FAIRVIEW STATION
ESPANOLA, NEW MEXICO

FIGURE 3
CONTAMINANT CONCENTRATION MAP
JULY 2017

PROJECT #:	6289821	PROJECT PHASE:	01	PROJECT MANAGER:	TM

320 Gold Avenue, SW Suite 1300
Albuquerque, NM 87102
Phone: (505) 224-9013
EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC., PBC

APPENDIX A

LABORATORY REPORT

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

July 17, 2017

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

RE: Fairview Station OrderNo.: 1707292

Dear Tyler Curley:

Hall Environmental Analysis Laboratory received 11 sample(s) on 7/6/2017 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 #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-4
Project: Fairview Station
Collection Date: 7/6/2017 10:56:00 AM
Lab ID: 1707292-001
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Toluene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Ethylbenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Methyl tert-butyl ether (MTBE)	62	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,2-Dichloroethane (EDC)	4.4	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Naphthalene	ND	2.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1-Methylnaphthalene	ND	4.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
2-Methylnaphthalene	ND	4.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Acetone	ND	10		µg/L	1	7/10/2017 8:49:00 PM	R44107
Bromobenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Bromodichloromethane	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Bromoform	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Bromomethane	ND	3.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
2-Butanone	ND	10		µg/L	1	7/10/2017 8:49:00 PM	R44107
Carbon disulfide	ND	10		µg/L	1	7/10/2017 8:49:00 PM	R44107
Carbon Tetrachloride	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Chlorobenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Chloroethane	ND	2.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Chloroform	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Chloromethane	ND	3.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
2-Chlorotoluene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
4-Chlorotoluene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
cis-1,2-DCE	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Dibromochloromethane	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Dibromomethane	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,1-Dichloroethane	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,1-Dichloroethene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,2-Dichloropropane	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,3-Dichloropropane	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
2,2-Dichloropropane	ND	2.0		µg/L	1	7/10/2017 8:49:00 PM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-4
Project: Fairview Station
Collection Date: 7/6/2017 10:56:00 AM
Lab ID: 1707292-001
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Hexachlorobutadiene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
2-Hexanone	ND	10		µg/L	1	7/10/2017 8:49:00 PM	R44107
Isopropylbenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
4-Isopropyltoluene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
4-Methyl-2-pentanone	ND	10		µg/L	1	7/10/2017 8:49:00 PM	R44107
Methylene Chloride	ND	3.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
n-Butylbenzene	ND	3.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
n-Propylbenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
sec-Butylbenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Styrene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
tert-Butylbenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
trans-1,2-DCE	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Trichlorofluoromethane	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Vinyl chloride	ND	1.0		µg/L	1	7/10/2017 8:49:00 PM	R44107
Xylenes, Total	ND	1.5		µg/L	1	7/10/2017 8:49:00 PM	R44107
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	1	7/10/2017 8:49:00 PM	R44107
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	7/10/2017 8:49:00 PM	R44107
Surr: Dibromofluoromethane	119	70-130		%Rec	1	7/10/2017 8:49:00 PM	R44107
Surr: Toluene-d8	102	70-130		%Rec	1	7/10/2017 8:49:00 PM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-5
Project: Fairview Station
Collection Date: 7/6/2017 1:26:00 PM
Lab ID: 1707292-002
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	13000	200		µg/L	200	7/10/2017 9:13:00 PM	R44107
Toluene	960	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Ethylbenzene	1100	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Methyl tert-butyl ether (MTBE)	2400	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,2,4-Trimethylbenzene	490	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,3,5-Trimethylbenzene	65	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,2-Dichloroethane (EDC)	69	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Naphthalene	190	40		µg/L	20	7/10/2017 9:37:00 PM	R44107
1-Methylnaphthalene	ND	80		µg/L	20	7/10/2017 9:37:00 PM	R44107
2-Methylnaphthalene	ND	80		µg/L	20	7/10/2017 9:37:00 PM	R44107
Acetone	ND	200		µg/L	20	7/10/2017 9:37:00 PM	R44107
Bromobenzene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Bromodichloromethane	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Bromoform	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Bromomethane	ND	60		µg/L	20	7/10/2017 9:37:00 PM	R44107
2-Butanone	ND	200		µg/L	20	7/10/2017 9:37:00 PM	R44107
Carbon disulfide	ND	200		µg/L	20	7/10/2017 9:37:00 PM	R44107
Carbon Tetrachloride	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Chlorobenzene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Chloroethane	ND	40		µg/L	20	7/10/2017 9:37:00 PM	R44107
Chloroform	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Chloromethane	ND	60		µg/L	20	7/10/2017 9:37:00 PM	R44107
2-Chlorotoluene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
4-Chlorotoluene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
cis-1,2-DCE	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
cis-1,3-Dichloropropene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	7/10/2017 9:37:00 PM	R44107
Dibromochloromethane	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Dibromomethane	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,2-Dichlorobenzene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,3-Dichlorobenzene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,4-Dichlorobenzene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Dichlorodifluoromethane	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,1-Dichloroethane	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,1-Dichloroethene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,2-Dichloropropane	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,3-Dichloropropane	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
2,2-Dichloropropane	ND	40		µg/L	20	7/10/2017 9:37:00 PM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-5
Project: Fairview Station
Collection Date: 7/6/2017 1:26:00 PM
Lab ID: 1707292-002
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Hexachlorobutadiene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
2-Hexanone	ND	200		µg/L	20	7/10/2017 9:37:00 PM	R44107
Isopropylbenzene	30	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
4-Isopropyltoluene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
4-Methyl-2-pentanone	ND	200		µg/L	20	7/10/2017 9:37:00 PM	R44107
Methylene Chloride	ND	60		µg/L	20	7/10/2017 9:37:00 PM	R44107
n-Butylbenzene	ND	60		µg/L	20	7/10/2017 9:37:00 PM	R44107
n-Propylbenzene	73	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
sec-Butylbenzene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Styrene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
tert-Butylbenzene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	7/10/2017 9:37:00 PM	R44107
Tetrachloroethene (PCE)	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
trans-1,2-DCE	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
trans-1,3-Dichloropropene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,2,3-Trichlorobenzene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,2,4-Trichlorobenzene	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,1,1-Trichloroethane	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,1,2-Trichloroethane	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Trichloroethene (TCE)	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Trichlorofluoromethane	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
1,2,3-Trichloropropane	ND	40		µg/L	20	7/10/2017 9:37:00 PM	R44107
Vinyl chloride	ND	20		µg/L	20	7/10/2017 9:37:00 PM	R44107
Xylenes, Total	1000	30		µg/L	20	7/10/2017 9:37:00 PM	R44107
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	20	7/10/2017 9:37:00 PM	R44107
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	20	7/10/2017 9:37:00 PM	R44107
Surr: Dibromofluoromethane	109	70-130		%Rec	20	7/10/2017 9:37:00 PM	R44107
Surr: Toluene-d8	104	70-130		%Rec	20	7/10/2017 9:37:00 PM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-06
Project: Fairview Station
Collection Date: 7/6/2017 1:56:00 PM
Lab ID: 1707292-003
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	690	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Toluene	3900	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Ethylbenzene	2300	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Methyl tert-butyl ether (MTBE)	53	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,2,4-Trimethylbenzene	2600	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,3,5-Trimethylbenzene	700	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Naphthalene	660	100		µg/L	50	7/10/2017 10:25:00 PM	R44107
1-Methylnaphthalene	ND	200		µg/L	50	7/10/2017 10:25:00 PM	R44107
2-Methylnaphthalene	210	200		µg/L	50	7/10/2017 10:25:00 PM	R44107
Acetone	ND	500		µg/L	50	7/10/2017 10:25:00 PM	R44107
Bromobenzene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Bromodichloromethane	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Bromoform	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Bromomethane	ND	150		µg/L	50	7/10/2017 10:25:00 PM	R44107
2-Butanone	ND	500		µg/L	50	7/10/2017 10:25:00 PM	R44107
Carbon disulfide	ND	500		µg/L	50	7/10/2017 10:25:00 PM	R44107
Carbon Tetrachloride	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Chlorobenzene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Chloroethane	ND	100		µg/L	50	7/10/2017 10:25:00 PM	R44107
Chloroform	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Chloromethane	ND	150		µg/L	50	7/10/2017 10:25:00 PM	R44107
2-Chlorotoluene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
4-Chlorotoluene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
cis-1,2-DCE	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
cis-1,3-Dichloropropene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	7/10/2017 10:25:00 PM	R44107
Dibromochloromethane	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Dibromomethane	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,2-Dichlorobenzene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,3-Dichlorobenzene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,4-Dichlorobenzene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Dichlorodifluoromethane	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,1-Dichloroethane	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,1-Dichloroethene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,2-Dichloropropane	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,3-Dichloropropane	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
2,2-Dichloropropane	ND	100		µg/L	50	7/10/2017 10:25:00 PM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-06
Project: Fairview Station
Collection Date: 7/6/2017 1:56:00 PM
Lab ID: 1707292-003
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Hexachlorobutadiene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
2-Hexanone	ND	500		µg/L	50	7/10/2017 10:25:00 PM	R44107
Isopropylbenzene	100	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
4-Isopropyltoluene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
4-Methyl-2-pentanone	ND	500		µg/L	50	7/10/2017 10:25:00 PM	R44107
Methylene Chloride	ND	150		µg/L	50	7/10/2017 10:25:00 PM	R44107
n-Butylbenzene	ND	150		µg/L	50	7/10/2017 10:25:00 PM	R44107
n-Propylbenzene	260	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
sec-Butylbenzene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Styrene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
tert-Butylbenzene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	7/10/2017 10:25:00 PM	R44107
Tetrachloroethene (PCE)	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
trans-1,2-DCE	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
trans-1,3-Dichloropropene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,2,3-Trichlorobenzene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,2,4-Trichlorobenzene	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,1,1-Trichloroethane	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,1,2-Trichloroethane	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Trichloroethene (TCE)	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Trichlorofluoromethane	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
1,2,3-Trichloropropane	ND	100		µg/L	50	7/10/2017 10:25:00 PM	R44107
Vinyl chloride	ND	50		µg/L	50	7/10/2017 10:25:00 PM	R44107
Xylenes, Total	13000	300		µg/L	200	7/13/2017 2:25:22 PM	W44213
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	50	7/10/2017 10:25:00 PM	R44107
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	50	7/10/2017 10:25:00 PM	R44107
Surr: Dibromofluoromethane	113	70-130		%Rec	50	7/10/2017 10:25:00 PM	R44107
Surr: Toluene-d8	105	70-130		%Rec	50	7/10/2017 10:25:00 PM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-07
Project: Fairview Station
Collection Date: 7/6/2017 12:55:00 PM
Lab ID: 1707292-004
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	8200	100		µg/L	100	7/10/2017 11:12:00 PM	R44107
Toluene	840	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Ethylbenzene	710	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Methyl tert-butyl ether (MTBE)	3400	100		µg/L	100	7/10/2017 11:12:00 PM	R44107
1,2,4-Trimethylbenzene	560	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,3,5-Trimethylbenzene	100	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,2-Dichloroethane (EDC)	22	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Naphthalene	120	20		µg/L	10	7/10/2017 11:36:00 PM	R44107
1-Methylnaphthalene	ND	40		µg/L	10	7/10/2017 11:36:00 PM	R44107
2-Methylnaphthalene	ND	40		µg/L	10	7/10/2017 11:36:00 PM	R44107
Acetone	ND	100		µg/L	10	7/10/2017 11:36:00 PM	R44107
Bromobenzene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Bromodichloromethane	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Bromoform	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Bromomethane	ND	30		µg/L	10	7/10/2017 11:36:00 PM	R44107
2-Butanone	ND	100		µg/L	10	7/10/2017 11:36:00 PM	R44107
Carbon disulfide	ND	100		µg/L	10	7/10/2017 11:36:00 PM	R44107
Carbon Tetrachloride	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Chlorobenzene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Chloroethane	ND	20		µg/L	10	7/10/2017 11:36:00 PM	R44107
Chloroform	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Chloromethane	ND	30		µg/L	10	7/10/2017 11:36:00 PM	R44107
2-Chlorotoluene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
4-Chlorotoluene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
cis-1,2-DCE	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
cis-1,3-Dichloropropene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	7/10/2017 11:36:00 PM	R44107
Dibromochloromethane	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Dibromomethane	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,2-Dichlorobenzene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,3-Dichlorobenzene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,4-Dichlorobenzene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Dichlorodifluoromethane	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,1-Dichloroethane	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,1-Dichloroethene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,2-Dichloropropane	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,3-Dichloropropane	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
2,2-Dichloropropane	ND	20		µg/L	10	7/10/2017 11:36:00 PM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-07
Project: Fairview Station
Collection Date: 7/6/2017 12:55:00 PM
Lab ID: 1707292-004
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Hexachlorobutadiene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
2-Hexanone	ND	100		µg/L	10	7/10/2017 11:36:00 PM	R44107
Isopropylbenzene	26	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
4-Isopropyltoluene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
4-Methyl-2-pentanone	ND	100		µg/L	10	7/10/2017 11:36:00 PM	R44107
Methylene Chloride	ND	30		µg/L	10	7/10/2017 11:36:00 PM	R44107
n-Butylbenzene	ND	30		µg/L	10	7/10/2017 11:36:00 PM	R44107
n-Propylbenzene	67	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
sec-Butylbenzene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Styrene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
tert-Butylbenzene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	7/10/2017 11:36:00 PM	R44107
Tetrachloroethene (PCE)	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
trans-1,2-DCE	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
trans-1,3-Dichloropropene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,2,3-Trichlorobenzene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,2,4-Trichlorobenzene	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,1,1-Trichloroethane	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,1,2-Trichloroethane	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Trichloroethene (TCE)	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Trichlorofluoromethane	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
1,2,3-Trichloropropane	ND	20		µg/L	10	7/10/2017 11:36:00 PM	R44107
Vinyl chloride	ND	10		µg/L	10	7/10/2017 11:36:00 PM	R44107
Xylenes, Total	1000	15		µg/L	10	7/10/2017 11:36:00 PM	R44107
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	10	7/10/2017 11:36:00 PM	R44107
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	10	7/10/2017 11:36:00 PM	R44107
Surr: Dibromofluoromethane	111	70-130		%Rec	10	7/10/2017 11:36:00 PM	R44107
Surr: Toluene-d8	104	70-130		%Rec	10	7/10/2017 11:36:00 PM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-13
Project: Fairview Station
Collection Date: 7/6/2017 12:30:00 PM
Lab ID: 1707292-005
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	1900	100		µg/L	100	7/11/2017 1:35:00 AM	R44107
Toluene	11	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Ethylbenzene	190	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,2,4-Trimethylbenzene	51	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,3,5-Trimethylbenzene	10	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Naphthalene	36	20		µg/L	10	7/11/2017 1:59:00 AM	R44107
1-Methylnaphthalene	ND	40		µg/L	10	7/11/2017 1:59:00 AM	R44107
2-Methylnaphthalene	ND	40		µg/L	10	7/11/2017 1:59:00 AM	R44107
Acetone	ND	100		µg/L	10	7/11/2017 1:59:00 AM	R44107
Bromobenzene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Bromodichloromethane	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Bromoform	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Bromomethane	ND	30		µg/L	10	7/11/2017 1:59:00 AM	R44107
2-Butanone	ND	100		µg/L	10	7/11/2017 1:59:00 AM	R44107
Carbon disulfide	ND	100		µg/L	10	7/11/2017 1:59:00 AM	R44107
Carbon Tetrachloride	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Chlorobenzene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Chloroethane	ND	20		µg/L	10	7/11/2017 1:59:00 AM	R44107
Chloroform	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Chloromethane	ND	30		µg/L	10	7/11/2017 1:59:00 AM	R44107
2-Chlorotoluene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
4-Chlorotoluene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
cis-1,2-DCE	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
cis-1,3-Dichloropropene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	7/11/2017 1:59:00 AM	R44107
Dibromochloromethane	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Dibromomethane	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,2-Dichlorobenzene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,3-Dichlorobenzene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,4-Dichlorobenzene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Dichlorodifluoromethane	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,1-Dichloroethane	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,1-Dichloroethene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,2-Dichloropropane	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,3-Dichloropropane	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
2,2-Dichloropropane	ND	20		µg/L	10	7/11/2017 1:59:00 AM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-13
Project: Fairview Station
Collection Date: 7/6/2017 12:30:00 PM
Lab ID: 1707292-005
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Hexachlorobutadiene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
2-Hexanone	ND	100		µg/L	10	7/11/2017 1:59:00 AM	R44107
Isopropylbenzene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
4-Isopropyltoluene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
4-Methyl-2-pentanone	ND	100		µg/L	10	7/11/2017 1:59:00 AM	R44107
Methylene Chloride	ND	30		µg/L	10	7/11/2017 1:59:00 AM	R44107
n-Butylbenzene	ND	30		µg/L	10	7/11/2017 1:59:00 AM	R44107
n-Propylbenzene	16	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
sec-Butylbenzene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Styrene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
tert-Butylbenzene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	7/11/2017 1:59:00 AM	R44107
Tetrachloroethene (PCE)	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
trans-1,2-DCE	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
trans-1,3-Dichloropropene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,2,3-Trichlorobenzene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,2,4-Trichlorobenzene	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,1,1-Trichloroethane	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,1,2-Trichloroethane	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Trichloroethene (TCE)	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Trichlorofluoromethane	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
1,2,3-Trichloropropane	ND	20		µg/L	10	7/11/2017 1:59:00 AM	R44107
Vinyl chloride	ND	10		µg/L	10	7/11/2017 1:59:00 AM	R44107
Xylenes, Total	ND	15		µg/L	10	7/11/2017 1:59:00 AM	R44107
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	10	7/11/2017 1:59:00 AM	R44107
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	10	7/11/2017 1:59:00 AM	R44107
Surr: Dibromofluoromethane	110	70-130		%Rec	10	7/11/2017 1:59:00 AM	R44107
Surr: Toluene-d8	103	70-130		%Rec	10	7/11/2017 1:59:00 AM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-16
Project: Fairview Station
Collection Date: 7/6/2017 12:01:00 PM
Lab ID: 1707292-006
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	1700	20		µg/L	20	7/11/2017 5:19:00 PM	R44161
Toluene	490	20		µg/L	20	7/11/2017 5:19:00 PM	R44161
Ethylbenzene	450	20		µg/L	20	7/11/2017 5:19:00 PM	R44161
Methyl tert-butyl ether (MTBE)	29	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,2,4-Trimethylbenzene	380	20		µg/L	20	7/11/2017 5:19:00 PM	R44161
1,3,5-Trimethylbenzene	56	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Naphthalene	130	40		µg/L	20	7/11/2017 5:19:00 PM	R44161
1-Methylnaphthalene	30	4.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
2-Methylnaphthalene	39	4.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Acetone	ND	10		µg/L	1	7/11/2017 2:23:00 AM	R44107
Bromobenzene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Bromodichloromethane	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Bromoform	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Bromomethane	ND	3.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
2-Butanone	ND	10		µg/L	1	7/11/2017 2:23:00 AM	R44107
Carbon disulfide	ND	10		µg/L	1	7/11/2017 2:23:00 AM	R44107
Carbon Tetrachloride	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Chlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Chloroethane	ND	2.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Chloroform	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Chloromethane	ND	3.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
2-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
4-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
cis-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Dibromochloromethane	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Dibromomethane	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,1-Dichloroethane	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,1-Dichloroethene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,2-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,3-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
2,2-Dichloropropane	ND	2.0		µg/L	1	7/11/2017 2:23:00 AM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-16
Project: Fairview Station
Collection Date: 7/6/2017 12:01:00 PM
Lab ID: 1707292-006
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Hexachlorobutadiene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
2-Hexanone	ND	10		µg/L	1	7/11/2017 2:23:00 AM	R44107
Isopropylbenzene	23	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
4-Isopropyltoluene	2.1	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
4-Methyl-2-pentanone	ND	10		µg/L	1	7/11/2017 2:23:00 AM	R44107
Methylene Chloride	ND	3.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
n-Butylbenzene	5.8	3.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
n-Propylbenzene	55	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
sec-Butylbenzene	3.9	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Styrene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
tert-Butylbenzene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
trans-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Trichlorofluoromethane	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Vinyl chloride	ND	1.0		µg/L	1	7/11/2017 2:23:00 AM	R44107
Xylenes, Total	500	30		µg/L	20	7/11/2017 5:19:00 PM	R44161
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	7/11/2017 2:23:00 AM	R44107
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	7/11/2017 2:23:00 AM	R44107
Surr: Dibromofluoromethane	106	70-130		%Rec	1	7/11/2017 2:23:00 AM	R44107
Surr: Toluene-d8	99.9	70-130		%Rec	1	7/11/2017 2:23:00 AM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-17
Project: Fairview Station
Collection Date: 7/6/2017 10:24:00 AM
Lab ID: 1707292-007
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Toluene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Ethylbenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Naphthalene	ND	2.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1-Methylnaphthalene	ND	4.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
2-Methylnaphthalene	ND	4.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Acetone	ND	10		µg/L	1	7/11/2017 2:47:00 AM	R44107
Bromobenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Bromodichloromethane	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Bromoform	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Bromomethane	ND	3.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
2-Butanone	ND	10		µg/L	1	7/11/2017 2:47:00 AM	R44107
Carbon disulfide	ND	10		µg/L	1	7/11/2017 2:47:00 AM	R44107
Carbon Tetrachloride	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Chlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Chloroethane	ND	2.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Chloroform	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Chloromethane	ND	3.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
2-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
4-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
cis-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Dibromochloromethane	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Dibromomethane	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,1-Dichloroethane	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,1-Dichloroethene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,2-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,3-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
2,2-Dichloropropane	ND	2.0		µg/L	1	7/11/2017 2:47:00 AM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-17
Project: Fairview Station
Collection Date: 7/6/2017 10:24:00 AM
Lab ID: 1707292-007
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Hexachlorobutadiene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
2-Hexanone	ND	10		µg/L	1	7/11/2017 2:47:00 AM	R44107
Isopropylbenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
4-Isopropyltoluene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
4-Methyl-2-pentanone	ND	10		µg/L	1	7/11/2017 2:47:00 AM	R44107
Methylene Chloride	ND	3.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
n-Butylbenzene	ND	3.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
n-Propylbenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
sec-Butylbenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Styrene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
tert-Butylbenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
trans-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Trichlorofluoromethane	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Vinyl chloride	ND	1.0		µg/L	1	7/11/2017 2:47:00 AM	R44107
Xylenes, Total	ND	1.5		µg/L	1	7/11/2017 2:47:00 AM	R44107
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	7/11/2017 2:47:00 AM	R44107
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	7/11/2017 2:47:00 AM	R44107
Surr: Dibromofluoromethane	108	70-130		%Rec	1	7/11/2017 2:47:00 AM	R44107
Surr: Toluene-d8	102	70-130		%Rec	1	7/11/2017 2:47:00 AM	R44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-19
Project: Fairview Station
Collection Date: 7/6/2017 11:26:00 AM
Lab ID: 1707292-008
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	27	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Toluene	1.7	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Ethylbenzene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,2,4-Trimethylbenzene	9.2	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,3,5-Trimethylbenzene	3.1	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,2-Dichloroethane (EDC)	2.2	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Naphthalene	2.2	2.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1-Methylnaphthalene	ND	4.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
2-Methylnaphthalene	ND	4.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Acetone	ND	10		µg/L	1	7/11/2017 3:11:00 AM	A44107
Bromobenzene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Bromodichloromethane	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Bromoform	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Bromomethane	ND	3.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
2-Butanone	ND	10		µg/L	1	7/11/2017 3:11:00 AM	A44107
Carbon disulfide	ND	10		µg/L	1	7/11/2017 3:11:00 AM	A44107
Carbon Tetrachloride	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Chlorobenzene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Chloroethane	ND	2.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Chloroform	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Chloromethane	ND	3.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
2-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
4-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
cis-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Dibromochloromethane	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Dibromomethane	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,1-Dichloroethane	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,1-Dichloroethene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,2-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,3-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
2,2-Dichloropropane	ND	2.0		µg/L	1	7/11/2017 3:11:00 AM	A44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-19
Project: Fairview Station
Collection Date: 7/6/2017 11:26:00 AM
Lab ID: 1707292-008
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Hexachlorobutadiene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
2-Hexanone	ND	10		µg/L	1	7/11/2017 3:11:00 AM	A44107
Isopropylbenzene	1.8	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
4-Isopropyltoluene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
4-Methyl-2-pentanone	ND	10		µg/L	1	7/11/2017 3:11:00 AM	A44107
Methylene Chloride	ND	3.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
n-Butylbenzene	ND	3.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
n-Propylbenzene	1.1	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
sec-Butylbenzene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Styrene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
tert-Butylbenzene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
trans-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Trichlorofluoromethane	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Vinyl chloride	ND	1.0		µg/L	1	7/11/2017 3:11:00 AM	A44107
Xylenes, Total	5.1	1.5		µg/L	1	7/11/2017 3:11:00 AM	A44107
Surr: 1,2-Dichloroethane-d4	98.0	70-130		%Rec	1	7/11/2017 3:11:00 AM	A44107
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	7/11/2017 3:11:00 AM	A44107
Surr: Dibromofluoromethane	105	70-130		%Rec	1	7/11/2017 3:11:00 AM	A44107
Surr: Toluene-d8	103	70-130		%Rec	1	7/11/2017 3:11:00 AM	A44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-20
Project: Fairview Station
Collection Date: 7/6/2017 9:53:00 AM
Lab ID: 1707292-009
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Toluene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Ethylbenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Naphthalene	ND	2.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1-Methylnaphthalene	ND	4.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
2-Methylnaphthalene	ND	4.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Acetone	ND	10		µg/L	1	7/11/2017 4:22:00 AM	A44107
Bromobenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Bromodichloromethane	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Bromoform	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Bromomethane	ND	3.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
2-Butanone	ND	10		µg/L	1	7/11/2017 4:22:00 AM	A44107
Carbon disulfide	ND	10		µg/L	1	7/11/2017 4:22:00 AM	A44107
Carbon Tetrachloride	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Chlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Chloroethane	ND	2.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Chloroform	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Chloromethane	ND	3.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
2-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
4-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
cis-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Dibromochloromethane	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Dibromomethane	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,1-Dichloroethane	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,1-Dichloroethene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,2-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,3-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
2,2-Dichloropropane	ND	2.0		µg/L	1	7/11/2017 4:22:00 AM	A44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-20
Project: Fairview Station
Collection Date: 7/6/2017 9:53:00 AM
Lab ID: 1707292-009
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Hexachlorobutadiene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
2-Hexanone	ND	10		µg/L	1	7/11/2017 4:22:00 AM	A44107
Isopropylbenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
4-Isopropyltoluene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
4-Methyl-2-pentanone	ND	10		µg/L	1	7/11/2017 4:22:00 AM	A44107
Methylene Chloride	ND	3.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
n-Butylbenzene	ND	3.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
n-Propylbenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
sec-Butylbenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Styrene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
tert-Butylbenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
trans-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Trichlorofluoromethane	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Vinyl chloride	ND	1.0		µg/L	1	7/11/2017 4:22:00 AM	A44107
Xylenes, Total	ND	1.5		µg/L	1	7/11/2017 4:22:00 AM	A44107
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	7/11/2017 4:22:00 AM	A44107
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	7/11/2017 4:22:00 AM	A44107
Surr: Dibromofluoromethane	111	70-130		%Rec	1	7/11/2017 4:22:00 AM	A44107
Surr: Toluene-d8	102	70-130		%Rec	1	7/11/2017 4:22:00 AM	A44107

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	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-21
Project: Fairview Station
Collection Date: 7/6/2017 9:27:00 AM
Lab ID: 1707292-010
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Toluene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Ethylbenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Naphthalene	ND	2.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1-Methylnaphthalene	ND	4.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
2-Methylnaphthalene	ND	4.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Acetone	ND	10		µg/L	1	7/11/2017 4:46:00 AM	A44107
Bromobenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Bromodichloromethane	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Bromoform	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Bromomethane	ND	3.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
2-Butanone	ND	10		µg/L	1	7/11/2017 4:46:00 AM	A44107
Carbon disulfide	ND	10		µg/L	1	7/11/2017 4:46:00 AM	A44107
Carbon Tetrachloride	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Chlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Chloroethane	ND	2.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Chloroform	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Chloromethane	ND	3.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
2-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
4-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
cis-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Dibromochloromethane	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Dibromomethane	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,1-Dichloroethane	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,1-Dichloroethene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,2-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,3-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
2,2-Dichloropropane	ND	2.0		µg/L	1	7/11/2017 4:46:00 AM	A44107

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Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: MW-21
Project: Fairview Station
Collection Date: 7/6/2017 9:27:00 AM
Lab ID: 1707292-010
Matrix: AQUEOUS
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Hexachlorobutadiene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
2-Hexanone	ND	10		µg/L	1	7/11/2017 4:46:00 AM	A44107
Isopropylbenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
4-Isopropyltoluene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
4-Methyl-2-pentanone	ND	10		µg/L	1	7/11/2017 4:46:00 AM	A44107
Methylene Chloride	ND	3.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
n-Butylbenzene	ND	3.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
n-Propylbenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
sec-Butylbenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Styrene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
tert-Butylbenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
trans-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Trichlorofluoromethane	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Vinyl chloride	ND	1.0		µg/L	1	7/11/2017 4:46:00 AM	A44107
Xylenes, Total	ND	1.5		µg/L	1	7/11/2017 4:46:00 AM	A44107
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	7/11/2017 4:46:00 AM	A44107
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	7/11/2017 4:46:00 AM	A44107
Surr: Dibromofluoromethane	106	70-130		%Rec	1	7/11/2017 4:46:00 AM	A44107
Surr: Toluene-d8	101	70-130		%Rec	1	7/11/2017 4:46:00 AM	A44107

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Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: TRIP BLANK
Project: Fairview Station
Collection Date:
Lab ID: 1707292-011
Matrix: TRIP BLANK
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Toluene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Ethylbenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Naphthalene	ND	2.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1-Methylnaphthalene	ND	4.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
2-Methylnaphthalene	ND	4.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Acetone	ND	10		µg/L	1	7/11/2017 5:10:00 AM	A44107
Bromobenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Bromodichloromethane	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Bromoform	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Bromomethane	ND	3.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
2-Butanone	ND	10		µg/L	1	7/11/2017 5:10:00 AM	A44107
Carbon disulfide	ND	10		µg/L	1	7/11/2017 5:10:00 AM	A44107
Carbon Tetrachloride	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Chlorobenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Chloroethane	ND	2.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Chloroform	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Chloromethane	ND	3.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
2-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
4-Chlorotoluene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
cis-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Dibromochloromethane	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Dibromomethane	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,1-Dichloroethane	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,1-Dichloroethene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,2-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,3-Dichloropropane	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
2,2-Dichloropropane	ND	2.0		µg/L	1	7/11/2017 5:10:00 AM	A44107

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

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering
Client Sample ID: TRIP BLANK
Project: Fairview Station
Collection Date:
Lab ID: 1707292-011
Matrix: TRIP BLANK
Received Date: 7/6/2017 3:54:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Hexachlorobutadiene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
2-Hexanone	ND	10		µg/L	1	7/11/2017 5:10:00 AM	A44107
Isopropylbenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
4-Isopropyltoluene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
4-Methyl-2-pentanone	ND	10		µg/L	1	7/11/2017 5:10:00 AM	A44107
Methylene Chloride	ND	3.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
n-Butylbenzene	ND	3.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
n-Propylbenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
sec-Butylbenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Styrene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
tert-Butylbenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
trans-1,2-DCE	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Trichlorofluoromethane	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Vinyl chloride	ND	1.0		µg/L	1	7/11/2017 5:10:00 AM	A44107
Xylenes, Total	ND	1.5		µg/L	1	7/11/2017 5:10:00 AM	A44107
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	7/11/2017 5:10:00 AM	A44107
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	7/11/2017 5:10:00 AM	A44107
Surr: Dibromofluoromethane	106	70-130		%Rec	1	7/11/2017 5:10:00 AM	A44107
Surr: Toluene-d8	101	70-130		%Rec	1	7/11/2017 5:10:00 AM	A44107

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707292**

17-Jul-17

Client: EA Engineering

Project: Fairview Station

Sample ID **100ng lcs**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R44107**	RunNo: **44107**
Prep Date:	Analysis Date: **7/10/2017**	SeqNo: **1391695** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	20	1.0	20.00	0	98.8	70	130			
Ethylbenzene	20	1.0	20.00	0	99.6	70	130			
Methyl tert-butyl ether (MTBE)	39	1.0	40.00	0	97.6	70	130			
1,2,4-Trimethylbenzene	20	1.0	20.00	0	100	70	130			
1,3,5-Trimethylbenzene	20	1.0	20.00	0	98.6	70	130			
1,2-Dichloroethane (EDC)	20	1.0	20.00	0	99.9	62.2	143			
1,2-Dibromoethane (EDB)	19	1.0	20.00	0	96.6	70	130			
Naphthalene	18	2.0	20.00	0	89.1	70	130			
1-Methylnaphthalene	18	4.0	20.00	0	91.3	60	140			
2-Methylnaphthalene	14	4.0	20.00	0	68.4	60	140			
Acetone	41	10	40.00	0	102	60	140			
Bromobenzene	20	1.0	20.00	0	101	70	130			
Bromodichloromethane	21	1.0	20.00	0	105	70	130			
Bromoform	20	1.0	20.00	0	98.0	70	130			
Bromomethane	19	3.0	20.00	0	95.8	60	140			
2-Butanone	46	10	40.00	0	114	60	140			
Carbon disulfide	38	10	40.00	0	94.0	60	140			
Carbon Tetrachloride	20	1.0	20.00	0	102	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
Chloroethane	20	2.0	20.00	0	97.6	60	140			
Chloroform	21	1.0	20.00	0	104	70	130			
Chloromethane	17	3.0	20.00	0	85.8	60	140			
2-Chlorotoluene	20	1.0	20.00	0	99.7	70	130			
4-Chlorotoluene	20	1.0	20.00	0	99.3	70	130			
cis-1,2-DCE	21	1.0	20.00	0	107	70	130			
cis-1,3-Dichloropropene	19	1.0	20.00	0	94.3	70	130			
1,2-Dibromo-3-chloropropane	20	2.0	20.00	0	98.0	70	130			
Dibromochloromethane	19	1.0	20.00	0	93.7	70	130			
Dibromomethane	21	1.0	20.00	0	104	70	130			
1,2-Dichlorobenzene	20	1.0	20.00	0	98.0	70	130			
1,3-Dichlorobenzene	20	1.0	20.00	0	101	70	130			
1,4-Dichlorobenzene	20	1.0	20.00	0	101	67.2	141			
Dichlorodifluoromethane	15	1.0	20.00	0	77.4	60	140			
1,1-Dichloroethane	20	1.0	20.00	0	100	52.6	157			
1,1-Dichloroethene	20	1.0	20.00	0	97.5	70	130			
1,2-Dichloropropane	20	1.0	20.00	0	101	63.7	138			
1,3-Dichloropropane	19	1.0	20.00	0	96.6	70	130			
2,2-Dichloropropane	21	2.0	20.00	0	104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707292**

17-Jul-17

Client: EA Engineering

Project: Fairview Station

Sample ID **100ng lcs**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R44107**	RunNo: **44107**
Prep Date:	Analysis Date: **7/10/2017**	SeqNo: **1391695** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	20	1.0	20.00	0	102	70	130			
Hexachlorobutadiene	17	1.0	20.00	0	86.8	70	130			
2-Hexanone	37	10	40.00	0	92.1	60	140			
Isopropylbenzene	20	1.0	20.00	0	99.3	70	130			
4-Isopropyltoluene	20	1.0	20.00	0	101	70	130			
4-Methyl-2-pentanone	39	10	40.00	0	96.9	60	140			
Methylene Chloride	20	3.0	20.00	0	101	70	130			
n-Butylbenzene	19	3.0	20.00	0	93.4	70	130			
n-Propylbenzene	20	1.0	20.00	0	97.6	70	130			
sec-Butylbenzene	19	1.0	20.00	0	95.8	70	130			
Styrene	20	1.0	20.00	0	100	70	130			
tert-Butylbenzene	20	1.0	20.00	0	98.3	70	130			
1,1,1,2-Tetrachloroethane	20	1.0	20.00	0	98.3	70	130			
1,1,2,2-Tetrachloroethane	20	2.0	20.00	0	101	65.9	133			
Tetrachloroethene (PCE)	21	1.0	20.00	0	103	70	130			
trans-1,2-DCE	20	1.0	20.00	0	98.9	70	130			
trans-1,3-Dichloropropene	18	1.0	20.00	0	91.4	70	130			
1,2,3-Trichlorobenzene	18	1.0	20.00	0	91.2	70	130			
1,2,4-Trichlorobenzene	18	1.0	20.00	0	90.7	70	130			
1,1,1-Trichloroethane	20	1.0	20.00	0	102	70	130			
1,1,2-Trichloroethane	19	1.0	20.00	0	96.9	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Trichlorofluoromethane	20	1.0	20.00	0	100	70	130			
1,2,3-Trichloropropane	20	2.0	20.00	0	99.7	69.7	129			
Vinyl chloride	18	1.0	20.00	0	90.2	70	130			
Xylenes, Total	60	1.5	60.00	0	99.3	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	11		10.00		105	70	130			

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R44107**	RunNo: **44107**
Prep Date:	Analysis Date: **7/10/2017**	SeqNo: **1391703** 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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707292**

17-Jul-17

Client: EA Engineering

Project: Fairview Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R44107**	RunNo: **44107**
Prep Date:	Analysis Date: **7/10/2017**	SeqNo: **1391703** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707292**

17-Jul-17

Client: EA Engineering

Project: Fairview Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R44107**	RunNo: **44107**
Prep Date:	Analysis Date: **7/10/2017**	SeqNo: **1391703** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A44107**	RunNo: **44107**
Prep Date:	Analysis Date: **7/11/2017**	SeqNo: **1391769** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	115	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	21	1.0	20.00	0	106	70	130			
1,1-Dichloroethene	25	1.0	20.00	0	126	70	130			
Trichloroethene (TCE)	22	1.0	20.00	0	111	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707292**

17-Jul-17

Client: EA Engineering

Project: Fairview Station

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A44107**	RunNo: **44107**
Prep Date:	Analysis Date: **7/11/2017**	SeqNo: **1391769** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			
Surr: Dibromofluoromethane	11		10.00		114	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID **rb5**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A44107**	RunNo: **44107**
Prep Date:	Analysis Date: **7/11/2017**	SeqNo: **1391770** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707292**

17-Jul-17

Client: EA Engineering

Project: Fairview Station

Sample ID **rb5**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A44107**	RunNo: **44107**
Prep Date:	Analysis Date: **7/11/2017**	SeqNo: **1391770** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130			
Surr: Dibromofluoromethane	11		10.00		114	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707292**

17-Jul-17

Client: EA Engineering

Project: Fairview Station

Sample ID **1707292-008ams**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-19**	Batch ID: **A44107**	RunNo: **44107**
Prep Date:	Analysis Date: **7/11/2017**	SeqNo: **1391776** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	50	1.0	20.00	27.01	117	70	130			
Toluene	22	1.0	20.00	1.732	101	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	115	70	130			
Trichloroethene (TCE)	22	1.0	20.00	0.6180	107	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		99.8	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID **1707292-008amsd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-19**	Batch ID: **A44107**	RunNo: **44107**
Prep Date:	Analysis Date: **7/11/2017**	SeqNo: **1391777** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	50	1.0	20.00	27.01	113	70	130	1.44	20	
Toluene	22	1.0	20.00	1.732	99.0	70	130	2.22	20	
Chlorobenzene	20	1.0	20.00	0	100	70	130	0.864	20	
1,1-Dichloroethene	22	1.0	20.00	0	111	70	130	3.20	20	
Trichloroethene (TCE)	21	1.0	20.00	0.6180	102	70	130	4.76	20	
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		103	70	130	0	0	
Surr: Toluene-d8	10		10.00		102	70	130	0	0	

Sample ID **100ng lcs**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R44161**	RunNo: **44161**
Prep Date:	Analysis Date: **7/11/2017**	SeqNo: **1393699** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	20	1.0	20.00	0	99.5	70	130			
Ethylbenzene	20	1.0	20.00	0	98.7	70	130			
1,2,4-Trimethylbenzene	20	1.0	20.00	0	101	70	130			
Naphthalene	19	2.0	20.00	0	96.2	70	130			
Xylenes, Total	60	1.5	60.00	0	100	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707292**

17-Jul-17

Client: EA Engineering

Project: Fairview Station

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R44161**	RunNo: **44161**
Prep Date:	Analysis Date: **7/11/2017**	SeqNo: **1393702** 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								
1,2,4-Trimethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A44161**	RunNo: **44161**
Prep Date:	Analysis Date: **7/12/2017**	SeqNo: **1393730** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.1	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID **rb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A44161**	RunNo: **44161**
Prep Date:	Analysis Date: **7/12/2017**	SeqNo: **1393731** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.1	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID **rb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W44213**	RunNo: **44213**
Prep Date:	Analysis Date: **7/14/2017**	SeqNo: **1395682** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		113	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		92.6	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707292**

17-Jul-17

Client: EA Engineering

Project: Fairview Station

Sample ID **rb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W44213**	RunNo: **44213**
Prep Date:	Analysis Date: **7/14/2017**	SeqNo: **1395682** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **W44213**	RunNo: **44213**
Prep Date:	Analysis Date: **7/13/2017**	SeqNo: **1395683** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.9	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	11		10.00		105	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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 Alb Work Order Number: 1707292 RcptNo: 1

Received By: Sophia Campuzano 7/6/2017 3:54:00 PM

Completed By: Ashley Gallegos 7/7/2017 2:16:43 PM

Reviewed By: 7/10/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Client		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. 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.			
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. 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: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.4	Good	Not Present			

Chain-of-Custody Record

Client: EA Engineering

Mailing Address: 320 Gold Ave SW, Suite 1300
Albuquerque, NM 87102

Phone #: 505-224-9013

email or Fax#: tcurley@eaest.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Fairview Station

Project #: 15391

Project Manager: Tyler Curley

Sampler: C. Smith

On Ice: ☒ Yes ☐ No

Sample Temperature: 11.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1707292	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
7-6-17	1056	Aq	MW-4	VOA 3	$HgCl_2$	-001										X						
	1326		MW-5			-002																
	1356		MW-06			-003																
	1255		MW-07			-004																
	1220		MW-13			-005																
	1201		MW-16			-006																
	1024		MW-17			-007																
	1126		MW-19			-008																
	0953		MW-20			-009																
	0927		MW-21			-010																
			~~Trip Blank~~ ~~Temp~~ CS																			
			Trip Blank			-011																

Date:	Time:	Relinquished by:	Received by:	Date	Time
7-6-17	1554			07/06/17	1554
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

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

APPENDIX B

FIELD FORMS

EA Engineering, Science, and Technology
320 Gold Avenue SW, Suite 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-1
Site: Fair View
Depth to PSH: 15.22 Feet
Depth to water: 19.29 Feet
Total depth: _____ Feet
NAPL thickness: 4.07 Feet

Date gauged: 7-6-17
Time gauged: 0907
Well diameter: 2 Inches
Height of fluid column: _____ Feet
Volume in well: _____ Gallons

(3 well volumes = _____ gallons)

After Bailing NAPL
Depth to PSH: 15.84 Feet
Depth to water: 18.05 Feet
NAPL thickness: 2.31 Feet
NAPL Recovered: ~7.5 Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 0907
Purge Method: _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
		NAPL				

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

Time/date sampled: _____
Purged/sampled by: C. Montoya

Sample method: _____
Requested analyses: _____
Comments/observations: Skimmer 3/4 full, about 3" of water in skimmer

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 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-02		Date gauged	7-6-17	
Site	Fair View		Time gauged	0954	
Depth to PSH	16.21	Feet	Well diameter	2	Inches
Depth to water	19.06	Feet	Height of fluid column		Feet
Total depth		Feet	Volume in well		Gallons
NAPL thickness	2.85	Feet			

(3 well volumes = _____ gallons)

After Bailing NAPL

Depth to PSH	17.02	Feet
Depth to water	17.37	Feet
NAPL thickness	0.35	Feet
NAPL Recovered	~2.0	Gallons

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

~~NAPL~~ NAPL

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

Time/date sampled _____ Purged/sampled by C. Montoya

Sample method _____

Requested analyses _____

Comments/observations Skimmer full 3/4 water 1/4 NAPL, soaked sponge in NAPL 30 mins

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 1300
Albuquerque, NM 87102
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MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-03
Site: Fair View
Date gauged: 7-6-17
Time gauged: 0825

Depth to PSH: 15.70 Feet
Well diameter: 2 Inches
Depth to water: 18.93 Feet
Height of fluid column: _____ Feet
Total depth: _____ Feet
Volume in well: _____ Gallons
NAPL thickness: 3.23 Feet

(3 well volumes = _____ gallons)

After Bailing NAPL
Depth to PSH: 16.40 Feet
Depth to water: 16.41 Feet
NAPL thickness: 0.01 Feet
NAPL Recovered: 21.5 Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 0825
Purge Method: _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

NAPL

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

Time/date sampled: _____
Purged/sampled by: C. Montoya

Sample method: _____
Requested analyses: _____
Comments/observations: Skimmer Full

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 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-4		Date gauged	7-6-17	
Site	Fairview Station		Time gauged	1040	
Depth to PSH	- Feet	Well diameter	2 Inches		
Depth to water	17.34 Feet	Height of fluid column	9.75 Feet		
Total depth	27.09 Feet	Volume in well	1.66 Gallons		
NAPL thickness	- Feet				

(3 well volumes = 4.97 gallons)

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water _____ Feet

NAPL thickness _____ Feet

NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1042 7-6-17 Purge Method Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1044	0.25	17.3	1704	6.88		1.12
1048	2.50	16.4	1789	6.94		
1053	4.75	16.4	1312	7.24		

Actual purge volume 5.00 gal. Field measurements stabilized within ± 10%? N

Time/date sampled 1056 7-6-17 Purged/sampled by C. Smith

Sample method Disposable Bailer

Requested analyses 8260B

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 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-05		Date gauged	7-6-17	
Site	Fairview Station		Time gauged	1314	
Depth to PSH	— Feet	Well diameter	2 Inches		
Depth to water	16.38 Feet	Height of fluid column	5.75 Feet		
Total depth	22.13 Feet	Volume in well	0.98 Gallons		
NAPL thickness	— Feet				

(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 1316 7-6-17 Purge Method Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1320	0.25	18.8	2070	7.27		0.98

Bailed Dry

Actual purge volume 1.25 gal. Field measurements stabilized within ± 10%?

Time/date sampled 1326 7-6-17 Purged/sampled by C. Smith

Sample method Disposable Bailer

Requested analyses 8260 B

Comments/observations Bailed Dry @ ~ 1.25 gal

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 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-6
Site: FarView
Date gauged: 7-6-17
Time gauged: 1037

Depth to PSH: — Feet
Well diameter: 2 Inches
Depth to water: 16.59 Feet
Height of fluid column: _____ Feet
Total depth: — Feet
Volume in well: _____ Gallons
NAPL thickness: _____ Feet

(3 well volumes = _____ gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: _____ Purge Method: _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
		NAPL				

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

Time/date sampled: _____
Purged/sampled by: C. Montoya

Sample method: _____
Requested analyses: _____

Comments/observations: Sock Stained ≈ 20", No NAPL present
Replaced Sock

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 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-06	Date gauged	7-6-17
Site	Fairview Station	Time gauged	1344
Depth to PSH	– Feet	Well diameter	2 Inches
Depth to water	16.88 Feet	Height of fluid column	7.04 Feet
Total depth	23.92 Feet	Volume in well	1.19 Gallons
NAPL thickness	– Feet		

(3 well volumes = 3.59 gallons)

After Bailing NAPL

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

GROUNDWATER SAMPLING DATA

Time/date purged 1346 7-6-17 Purge Method Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1250	0.25	19.8	2620	6.99		1.07
1353	1.75	18.4	2600	7.13		
		Bailed Dry				

Actual purge volume 2.75 gal. Field measurements stabilized within ± 10%?

Time/date sampled 1356 7-6-17 Purged/sampled by C. Smith

Sample method Disposable Bailer

Requested analyses 8260 B

Comments/observations Contains Sock; Bailed Dry @ w 2.75 gal

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 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-07
Date gauged: 7-6-17
Site: Fairview Station
Time gauged: 1242

Depth to PSH: – Feet
Well diameter: 2 Inches
Depth to water: 17.03 Feet
Height of fluid column: 7.66 Feet
Total depth: 24.69 Feet
Volume in well: 1.30 Gallons
NAPL thickness: – Feet
(3 well volumes = 3.90 gallons)

After Bailing NAPL

Depth to PSH: ______ Feet
Depth to water: ______ Feet
NAPL thickness: ______ Feet
NAPL Recovered: ______ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1244 7-6-17
Purge Method: Hand Bail

Time	Purge Volume (gal)	Temp (˚C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1247	0.25	19.7	1967	7.23		1.07
1250	~~G 3~~ 1.75	17.2	1583	7.28		
1253	3.75	16.9	1295	7.41		

Actual purge volume: 4.00 gal.
Field measurements stabilized within ± 10%? N
Time/date sampled: 1255 7-6-17
Purged/sampled by: C. Smith
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
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MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-8
Site: Fair View
Depth to PSH: 16.79 Feet
Depth to water: 21.31 Feet
Total depth: _____ Feet
NAPL thickness: 4.58 Feet

Date gauged: 7-6-17
Time gauged: 1143
Well diameter: 2 Inches
Height of fluid column: _____ Feet
Volume in well: _____ Gallons

(3 well volumes = _____ gallons)

After Bailing NAPL
Depth to PSH: 18.32 Feet
Depth to water: 18.56 Feet
NAPL thickness: 0.24 Feet
NAPL Recovered: ~1.0 Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: _____ Purge Method: _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

NAPL

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

Time/date sampled _____ Purged/sampled by C Montoya

Sample method _____

Requested analyses _____

Comments/observations _____

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

EA Engineering, Science, and Technology
320 Gold Avenue SW, Suite 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-09
Site: FAIR VIEW
Depth to PSH: 17.78 Feet
Depth to water: 18.11 Feet
Total depth: _____ Feet
NAPL thickness: 0.33 Feet

Date gauged: 7-6-17
Time gauged: 1246
Well diameter: 2 Inches
Height of fluid column: _____ Feet
Volume in well: _____ Gallons

(3 well volumes = _____ gallons)

After Bailing NAPL
Depth to PSH: 17.85 Feet
Depth to water: 17.86 Feet
NAPL thickness: 0.01 Feet
NAPL Recovered: Negligible Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: _____ Purge Method: _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

NAPL

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

Time/date sampled: _____
Purged/sampled by: C Montoya

Sample method: _____
Requested analyses: _____
Comments/observations: Sock Stained ≈ 17"
Replaced Sock

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 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-10
Site: Fair View
Depth to PSH: 17.93 Feet
Depth to water: 17.94 Feet
Total depth: _____ Feet
NAPL thickness: 0.01 Feet

Date gauged: 7-6-17
Time gauged: 1223
Well diameter: 2 Inches
Height of fluid column: _____ Feet
Volume in well: _____ Gallons

(3 well volumes = _____ gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: _____
Purge Method: _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
		NAPL				

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

Time/date sampled: _____
Purged/sampled by: C. Montoya

Sample method: _____
Requested analyses: _____
Comments/observations: Sock stuck ≈ 13"
Replaced SOCK

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 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-11
Site: Fair View
Depth to PSH: 17.47 Feet
Depth to water: 19.82 Feet
Total depth: _____ Feet
NAPL thickness: 2.35 Feet

Date gauged: 7-6-17
Time gauged: 1058
Well diameter: 2 Inches
Height of fluid column: _____ Feet
Volume in well: _____ Gallons

(3 well volumes = _____ gallons)

After Bailing NAPL
Depth to PSH: 17.87 Feet
Depth to water: 14.30 Feet
NAPL thickness: 1.43 Feet
NAPL Recovered: ~5.0 Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: _____ Purge Method: _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
		NAPL				

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

Time/date sampled: _____
Purged/sampled by: C. Montoya

Sample method: _____
Requested analyses: _____
Comments/observations: Sock started @ 3.5"
Replaced sock

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 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-13		Date gauged	7-6-17	
Site	Farview Station		Time gauged	1217	
Depth to PSH	— Feet	Well diameter	2 Inches		
Depth to water	16.61 Feet	Height of fluid column	6.57 Feet		
Total depth	23.18 Feet	Volume in well	1.12 Gallons		
NAPL thickness	— Feet				

(3 well volumes = 3.35 gallons)

After Bailing NAPL

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

GROUNDWATER SAMPLING DATA

Time/date purged 1218 7-6-17 Purge Method Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1220	0.25	17.2	3070	7.27		1.03
1223	1.50	16.3	3060	7.27		
1226	3.25	15.9	2280	7.37		

Actual purge volume 3.50 gal. Field measurements stabilized within ± 10%? N

Time/date sampled 1230 7-6-17 Purged/sampled by C. Smith

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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MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-14		Date gauged	7-6-17	
Site	Fair View		Time gauged	1302	
Depth to PSH	17.46	Feet	Well diameter	2	Inches
Depth to water	18.13	Feet	Height of fluid column		Feet
Total depth		Feet	Volume in well		Gallons
NAPL thickness	0.67	Feet			

(3 well volumes = _____ gallons)

After Bailing NAPL

Depth to PSH	17.91	Feet
Depth to water	17.92	Feet
NAPL thickness	0.01	Feet
NAPL Recovered	neg	Gallons

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

NAPL

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

Time/date sampled _____ Purged/sampled by C. Montoya

Sample method _____

Requested analyses _____

Comments/observations Sock stained ~ 10"
Replaced sock

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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MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-65
Site: Fair View
Depth to PSH: 16.1 Feet
Depth to water: 17.31 Feet
Total depth: 23.90 Feet
NAPL thickness: 1.21 Feet

Date gauged: 7-6-17
Time gauged: 0745
Well diameter: 2 Inches
Height of fluid column: _____ Feet
Volume in well: _____ Gallons

(3 well volumes = _____ gallons)

After Bailing NAPL
Depth to PSH: — Feet
Depth to water: 16.27 Feet
NAPL thickness: — Feet
NAPL Recovered: 0.5 Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: _____ Purge Method: _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
	NAPL					

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

Time/date sampled: _____
Purged/sampled by: C. Montoya

Sample method: _____
Requested analyses: _____
Comments/observations: Soil stained ~ 9" cm

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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MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-16		Date gauged	7-6-17	
Site	Fairview Station		Time gauged	1149	
Depth to PSH	– Feet	Well diameter	2 Inches	After Bailing NAPL	
Depth to water	16.98 Feet	Height of fluid column	6.6 Feet	Depth to PSH	Feet
Total depth	23.58 Feet	Volume in well	1.12 Gallons	Depth to water	Feet
NAPL thickness	– Feet			NAPL thickness	Feet
				NAPL Recovered	Gallons

(3 well volumes = 3.36 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1152 7-6-17 Purge Method

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1152	0.25	17.8	2750	7.51		1.39
1155	1.75	~~17~~ 17.5	1817	7.67		
1158	3.25	16.8	1878	7.88		

Actual purge volume 3.50 gal. Field measurements stabilized within ± 10%? N

Time/date sampled 1201 Purged/sampled by C. Smith

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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MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-17
Site: Fairview Station
Depth to PSH: – Feet
Depth to water: 17.69 Feet
Total depth: 24.88 Feet
NAPL thickness: – Feet

Date gauged: 7-6-17
Time gauged: 1011
Well diameter: 2 Inches
Height of fluid column: 7.19 Feet
Volume in well: 1.22 Gallons

(3 well volumes = 3.66 gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: 1013 7-6-17
Purge Method: _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1015	0.25	17.4	1367	7.57		4.31
1018	1.75	16.3	1216	7.46		
1021	3.50	16.1	1176	6.98		

Actual purge volume: 3.75 gal.
Field measurements stabilized within ± 10%? N

Time/date sampled: 1024 7-6-17
Purged/sampled by: C. Smith

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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MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-18
Site: Fair View
Depth to PSH: 18.05 Feet
Depth to water: 18.24 Feet
Total depth: _____ Feet
NAPL thickness: 0.19 Feet

Date gauged: 7-6-17
Time gauged: 1321
Well diameter: 2 Inches
Height of fluid column: _____ Feet
Volume in well: _____ Gallons

(3 well volumes = _____ gallons)

After Bailing NAPL
Depth to PSH: 18.11 Feet
Depth to water: 18.12 Feet
NAPL thickness: 0.01 Feet
NAPL Recovered: Neg Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: _____ Purge Method: _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
		NAPL				

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

Time/date sampled: _____
Purged/sampled by: C Montoya

Sample method: _____
Requested analyses: _____
Comments/observations: Sock stand ≈ 8"
Replaced sock

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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MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-19
Site: Fairview Station
Depth to PSH: – Feet
Depth to water: 17.92 Feet
Total depth: 25.58 Feet
NAPL thickness: – Feet

Date gauged: 7-6-17
Time gauged: 1110
Well diameter: 2 Inches
Height of fluid column: 7.66 Feet
Volume in well: 1.20 Gallons

(3 well volumes = 3.90 gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: 1114 7-6-17
Purge Method: Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1116	0.25	~~17.9~~ 17.9	9250	6.81		0.98
1120	1.75	16.6	7490	6.91		
1124	3.75	16.6	5970	7.17		

Actual purge volume: 4.00 gal.
Field measurements stabilized within ± 10%? N

Time/date sampled: 1126 7-6-17
Purged/sampled by: C. Smith

Sample method: Disposable Bailer
Requested analyses: 8260 B
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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MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-20
Site: Fairview Station
Depth to PSH: – Feet
Depth to water: 16.38 Feet
Total depth: 25.05 Feet
NAPL thickness: – Feet

Date gauged: 7-6-17
Time gauged: 0935
Well diameter: 2 Inches
Height of fluid column: 8.67 Feet
Volume in well: 1.47 Gallons

(3 well volumes = 4.42 gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: 0940 7-6-17
Purge Method: Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0942	0.25	17.8	6190	7.10		1.94
0947	2.25	17.2	6790	6.99		
0950	4.25	16.9	7020	7.04		

Actual purge volume: 4.50 gal.
Field measurements stabilized within ± 10%? N

Time/date sampled: 0951 7-6-17
Purged/sampled by: C Smith

Sample method: Disposable Bailer
Requested analyses: 8260 D
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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MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-21	Date gauged	~~7-8-17~~ 7-6-17
Site	Fairview Station	Time gauged	0906
Depth to PSH	— Feet	Well diameter	2 Inches
Depth to water	16.88 Feet	Height of fluid column	9.96 Feet
Total depth	26.84 Feet	Volume in well	1.69 Gallons
NAPL thickness	— Feet		

(3 well volumes = 5.07 gallons)

After Bailing NAPL

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

GROUNDWATER SAMPLING DATA

Time/date purged 0912 7-6-17 Purge Method Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0914	0.25	18.1	5130	6.44		2.23
0919	2.25	17.4	5400	6.90		—
0924	5.00	17.1	5390	6.93		—

Actual purge volume 5.25 gal. Field measurements stabilized within ± 10%? Y

Time/date sampled 0927 7-6-17 Purged/sampled by C. Smith

Sample method Disposable Bailer

Requested analyses 8260

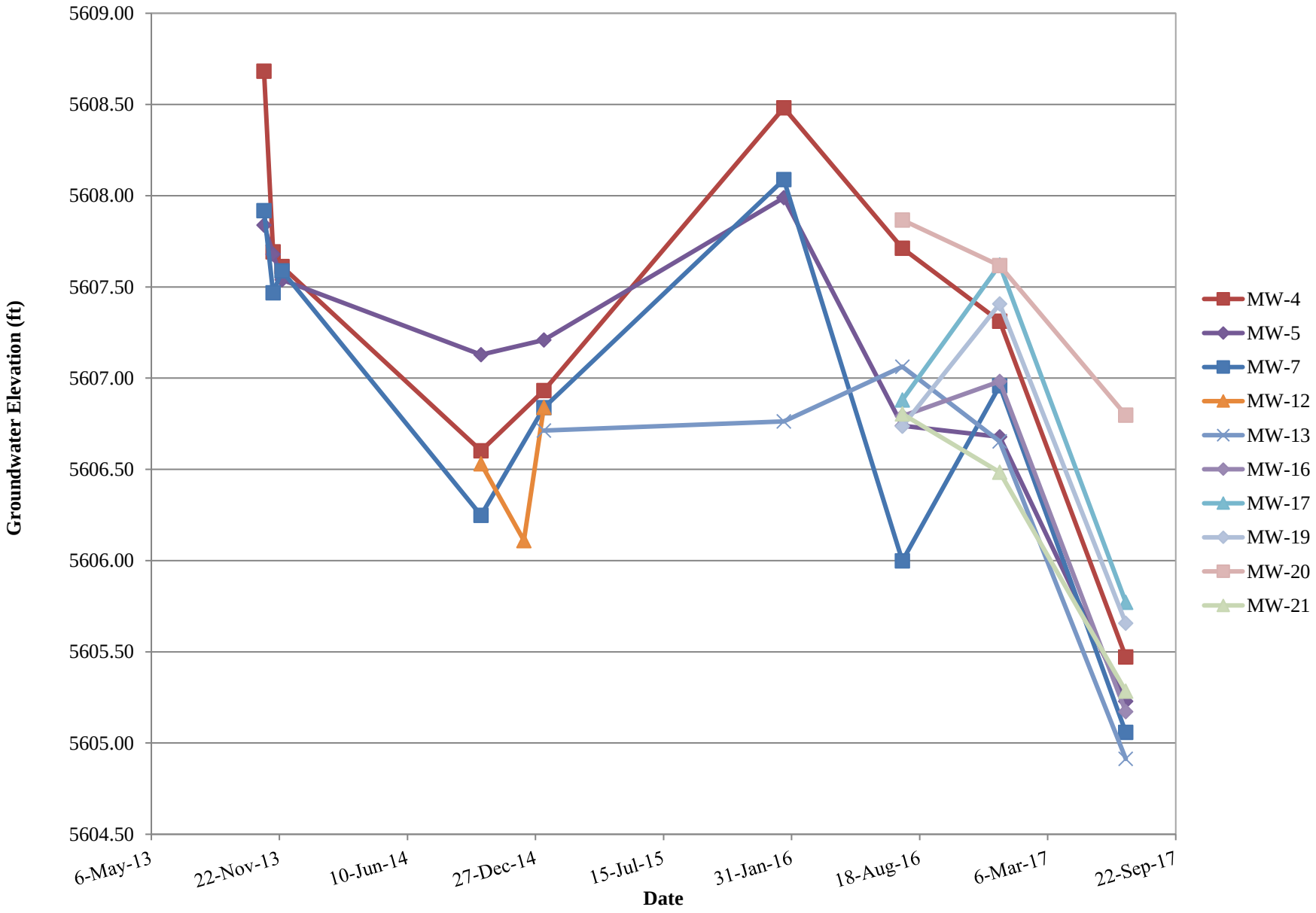
Comments/observations

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

APPENDIX C

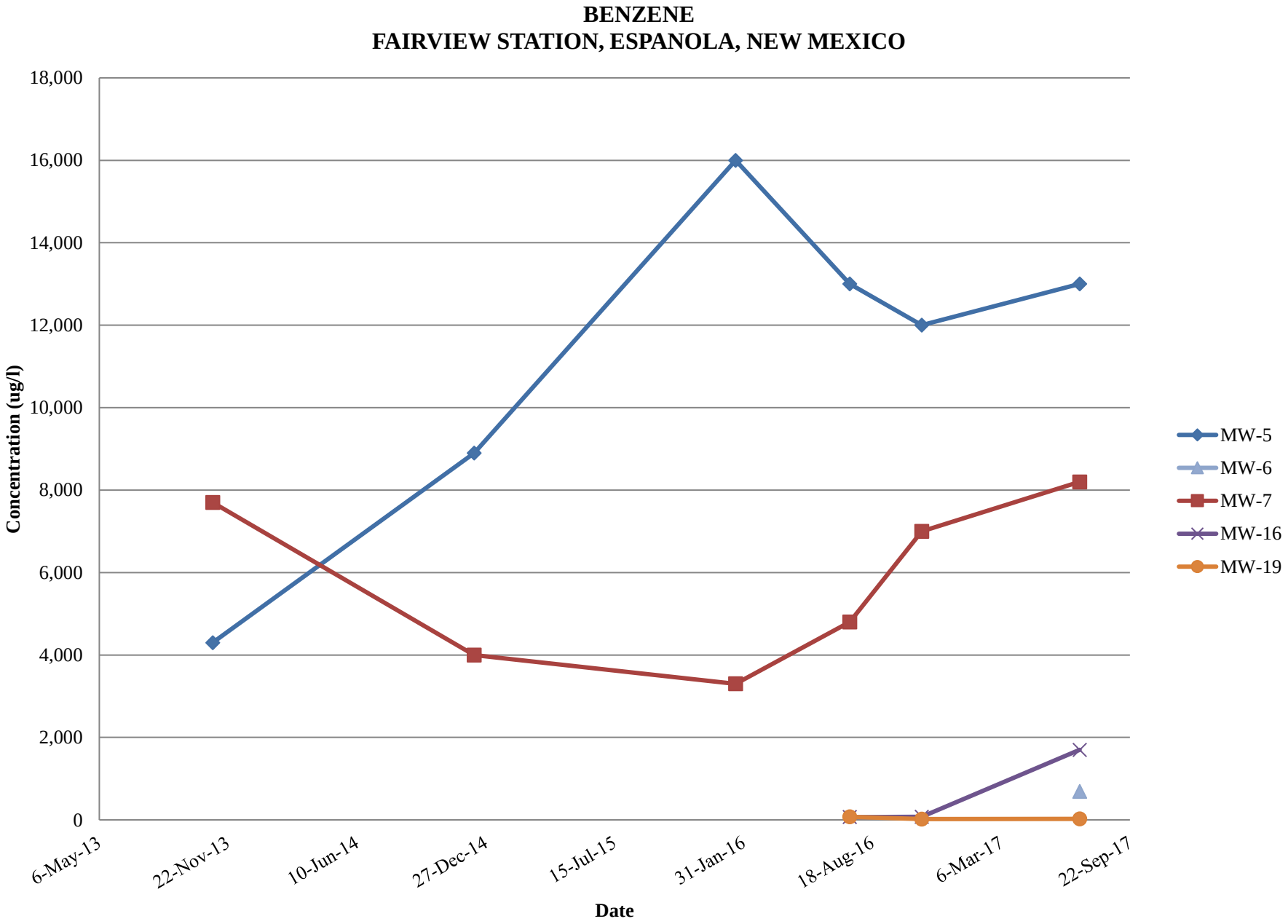
HYDROGRAPHS

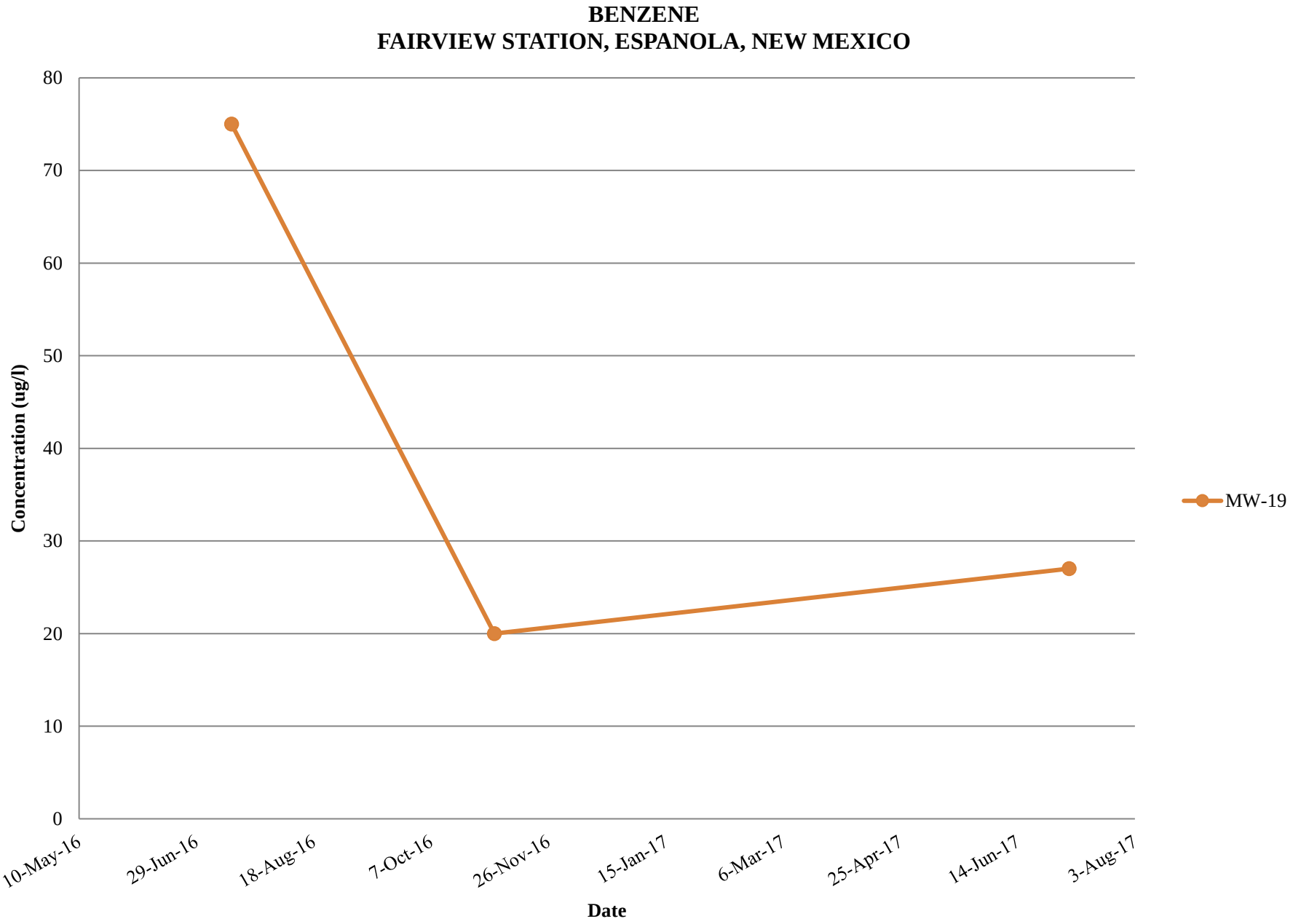
HYDROGRAPHS FOR SELECT MONITORING WELLS
FAIRVIEW STATION, ESPANOLA, NEW MEXICO

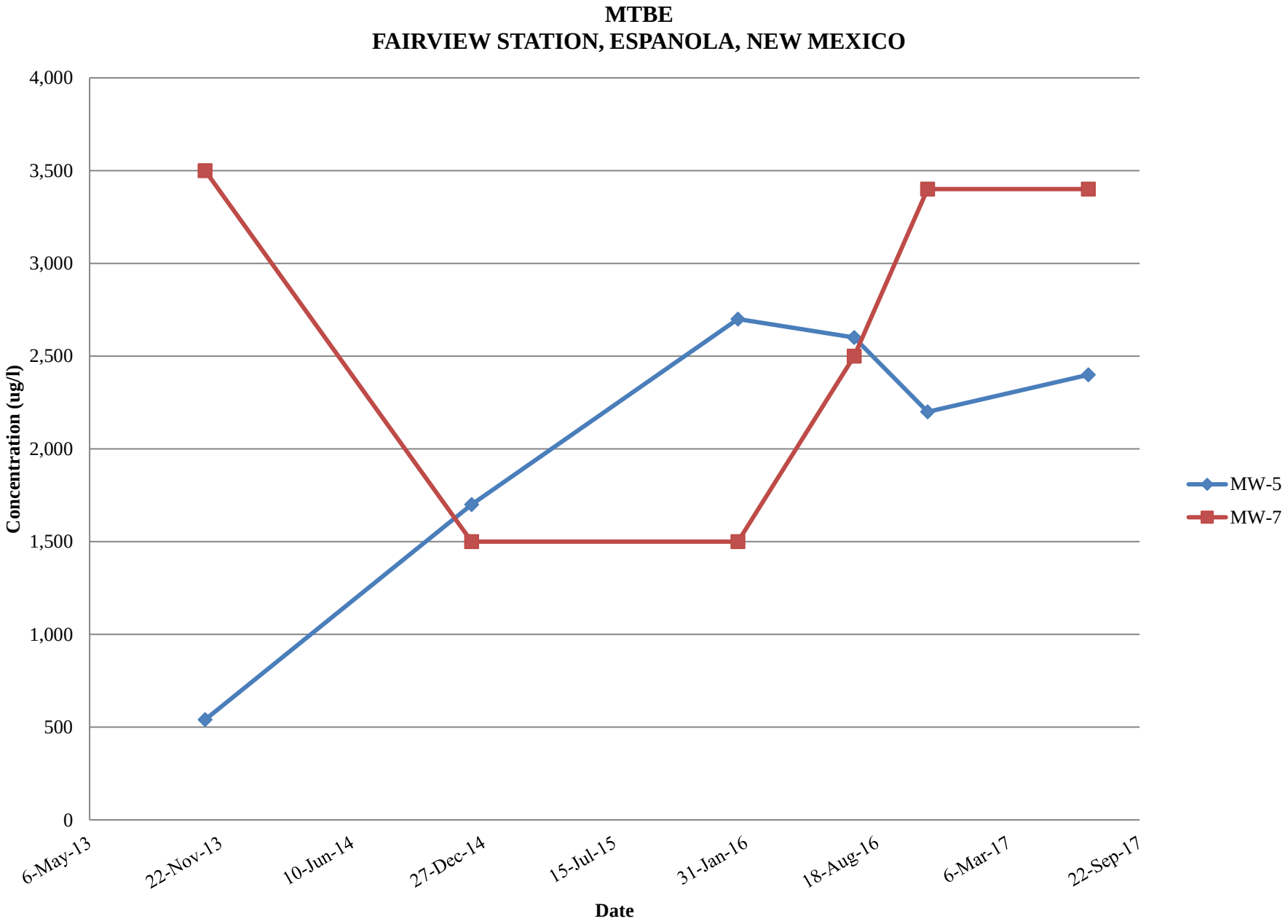


APPENDIX D

TRENDS


BENZENE
FAIRVIEW STATION, ESPANOLA, NEW MEXICO
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Concentration (ug/l)
6-May-13
22-Nov-13
10-Jun-14
27-Dec-14
15-Jul-15
31-Jan-16
18-Aug-16
6-Mar-17
22-Sep-17
Date
MW-5
MW-6
MW-7
MW-16
MW-19


BENZENE
FAIRVIEW STATION, ESPANOLA, NEW MEXICO
80
70
60
50
40
30
20
10
0
Concentration (ug/l)
10-May-16
29-Jun-16
18-Aug-16
7-Oct-16
26-Nov-16
15-Jan-17
6-Mar-17
25-Apr-17
14-Jun-17
3-Aug-17
Date
MW-19


MTBE
FAIRVIEW STATION, ESPANOLA, NEW MEXICO
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
Concentration (ug/l)
6-May-13
22-Nov-13
10-Jun-14
27-Dec-14
15-Jul-15
31-Jan-16
18-Aug-16
6-Mar-17
22-Sep-17
Date
MW-5
MW-7