Fairview Station 1626 N. Riverside Drive Española, Rio Arriba County, New Mexico

> January 19, 2015 Terracon Project No. 66127029.7



Prepared for:

Mr. José C. Roybal c/o Ms. Lucille Roybal, P.E. Albuquerque, New Mexico

Prepared by:

Terracon Consultants, Inc. Albuquerque, New Mexico

Offices Nationwide Employee-Owned Established in 1965 terracon.com





Ms. Lucille Roybal, P.E. 2312 Via Seville Court NW Albuquerque, New Mexico 87104 P: (972) 284-6655

Re: Groundwater Monitoring Report

Fairview Station

1626 N. Riverside Drive

Espanola, Rio Arriba County, New Mexico

Facility I.D. #: 28779 Release I.D. #: 4657 Work Plan I.D. #: 17351

Terracon Project No. 66127029.7

Dear Ms. Roybal:

Terracon Consultants, Inc. (Terracon) is pleased to submit this Groundwater Monitoring report that consists of a single groundwater monitoring event for the above referenced site. This investigation was performed in accordance with Terracon's Work Plan dated November 17, 2014, which was approved by the New Mexico Environment Department Petroleum Storage Tank Bureau on November 24, 2014.

We appreciate the opportunity to perform these services for you. Please contact Mark Hillier at (505) 797-4287 if you have questions regarding the information provided in the report.

Sincerely,

Terracon Consultants, Inc.

Missy A. Halick Project Manager

Attachments

Mark R. Hillier, P.G. (TX)
Department Manager

Much of Will.



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GROUNDWATER MONITORING REPORT FAIRVIEW STATION 1626 N. RIVERSIDE DRIVE ESPAÑOLA. RIO ARRIBA COUNTY. NEW MEXICO

Facility I.D. # - 28779 Release I.D. # - 4657 Work Plan I.D. # - 17351

Terracon Project No. 66127029.7

January 19, 2015

EXECUTIVE SUMMARY

The former Fairview Station is located at 1626 N. Riverside Drive, Española, Rio Arriba County, New Mexico (the site). The site was initially developed as a gas station in the 1970s. As part of this Groundwater Monitoring report, Terracon Consultants, Inc. (Terracon) performed a single groundwater monitoring event, which included sampling of 10 groundwater monitoring wells for benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tert-butyl ether (MTBE), 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene. Groundwater sampling took place on December 9 and 10, 2014 and groundwater and non-aqueous phase liquid (NAPL) elevation measurements were re-gauged on January 9, 2015. During the groundwater sampling event, NAPL was removed from monitoring wells as applicable and groundwater was only sampled if product was not present after purging of the wells.

Groundwater samples were collected from monitoring wells MW-2, MW-4, MW-5, MW-6, MW-7, MW-9, MW-10, MW-12, MW-13 and MW-14 and were submitted for laboratory analysis. Samples were not collected from monitoring wells MW-1, MW-3, MW-8 and MW-11 due to the presence of NAPL in the wells after purging. Prior to purging, NAPL was observed in monitoring wells MW-1, MW-2, MW-3, MW-6, MW-8, MW-11, and MW-14 prior to purging. Groundwater samples from monitoring wells MW-2, MW-5, MW-6, MW-7, MW-9, MW-10, MW-12, MW-13, and MW-14 exhibited concentrations of benzene that exceed the New Mexico Water Quality Control Commission (WQCC) standards.

Based on the results of this groundwater monitoring event, Terracon recommends the following:

- The installation of additional monitoring wells to delineate the horizontal extent of NAPL and dissolved-phase groundwater contaminants exceeding WQCC standards, and,
- Interim removal of NAPL from the monitoring wells.

Fairview Station Española, NM

January 19, 2015 Terracon Project No. 66127029.7



1.0 INTRODUCTION

1.1 Site Description

Site Name	Fairview Station, Facility ID#: 28779						
Site Location/Address	1626 N. Riverside Drive, Española, Rio Arriba County, New Mexico						
General Site Description	An approximate 0.5-acre tract of land developed with an approximate 600 square-foot (SF) former gas station building						

A topographic map depicting the site location is included as Exhibit 1 in Appendix A.

1.2 Scope of Services

The proposed scope of work has been designed in accordance with a request from the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) for one groundwater sampling event for the 14 existing monitoring wells associated with the gasoline release at the site.

1.3 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either express or implied, regarding the findings, conclusions or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, our client, as set forth in our proposal and were not intended to be in strict conformance with ASTM E1903-97.

1.4 Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this Groundwater Monitoring report. Subsurface conditions may vary from those encountered at specific borings or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

Fairview Station
Española, NM

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1.5 Reliance

This report has been prepared for the exclusive use of Ms. Lucille Roybal, P.E. and the NMED PSTB, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Ms. Lucille Roybal, P.E. and Terracon. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Work Plan, Groundwater Monitoring report, and Terracon's Terms and Conditions. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to the client and all relying parties unless otherwise agreed in writing.

2.0 CHRONOLOGY OF EVENTS

- 1970s Site initially developed with the Fairview Station operating two underground storage tanks (USTs).
- December 1, 1988 The two original USTs are removed from the site with no releases reported. The Fairview Station is temporarily closed pending installation of replacement USTs.
- August 7, 1989 Two 8,000-gallon and one 10,000-gallon gasoline UST and four dispensers are installed at the site.
- July 5, 2012 The three on-site USTs and associated piping and dispensers are removed. Field observations indicate a release has occurred.
- August 6, 2012 The NMED PSTB issues a release confirmation letter to Mr. José C. Roybal, the site owner.
- November 16, 2012 Terracon submits a Minimum Site Assessment (MSA) Work Plan to the NMED PSTB.
- December 13, 2012 NMED PSTB approves Terracon's MSA Work Plan.
- January 31, 2012 Terracon mobilizes to the site to conduct MSA field activities.
- March 12, 2013 Terracon submits the MSA report to the NMED PSTB.
- June 21, 2013 Mr. José C. Roybal, the site owner, is notified by the NMED PSTB that the on-site facility is in compliance with all requirements and provisions of regulations adopted by the board under Subsection C of Section 74-4-4 NMSA 1978.
- August 2, 2013 Terracon submits an Addendum Minimum Site Assessment (AMSA)
 Work Plan to the NMED PSTB.
- August 23, 2013 NMED PSTB approves Terracon's AMSA Work Plan and assigns Work Plan ID No. 16836.

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- October 23, 2013 Terracon mobilizes to the site to conduct AMSA field activities.
- December 23, 2013 Terracon submits an AMSA report to the NMED PSTB.
- February 5, 2014 Terracon submits a second AMSA Work Plan to the NMED PSTB.
- February 18, 2014 NMED PSTB approves Terracon's second AMSA Work Plan and assigns Work Plan ID No. 17029.
- July 18, 2014 Terracon mobilizes to the site to conduct additional AMSA field activities.
- August 21, 2014 Terracon mobilizes to the site to conduct additional AMSA field activities.
- October 13, 2014 Terracon submits a second AMSA report to the NMED PSTB.
- November 17, 2014 Terracon submits a Work Plan to complete a single groundwater monitoring event to the NMED PSTB.
- November 24, 2014 NMED PSTB approves Terracon's Groundwater Monitoring Work Plan and assigns Work Plan ID No. 17351.
- December 9-10, 2014 Terracon mobilizes to the site to conduct groundwater monitoring and NAPL removal as applicable.
- January 9, 2015 Terracon mobilizes to the site to re-gauge groundwater elevations and NAPL thickness.
- January 19, 2015 Terracon submits this Groundwater Monitoring report to the NMED PSTB.

3.0 SITE INVESTIGATION

3.1 Groundwater Monitoring and NAPL Removal

On December 9, through December 10, 2014, groundwater elevation and non-aqueous phase liquid (NAPL) thickness measurements were collected from the 14 monitoring wells associated with the site. The monitoring wells were purged by removing three casing volumes of water with a new disposable bailer prior to sampling each well. In addition, NAPL was removed from monitoring wells MW-1, MW-2, MW-3, MW-8, MW-11 and MW-14. Subsequent to purging and recharge, groundwater samples were collected from monitoring wells MW-2, MW-4, MW-5, MW-6, MW-7, MW-9, MW-10, MW-12, MW-13 and MW-14. Samples were not collected from monitoring wells MW-1, MW-3, MW-8 and MW-11 due to the presence of NAPL in the wells after purging. Groundwater samples were collected and placed in laboratory prepared glassware, sealed with custody tape, and placed on ice in a cooler which was secured with a custody seal. The sample cooler and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis.

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The original groundwater elevation and NAPL thickness measurements for monitoring wells MW-4, MW-5, MW-7 and MW-13 were lost prior to preparation of this report. Therefore, the 14 monitoring wells were re-gauged on January 9, 2015. A map of NAPL thicknesses is presented as Exhibit 4 in Appendix A. A groundwater gradient map is presented as Exhibit 3 in Appendix A.

3.2 Extent of Groundwater Contamination

NAPL was observed in monitoring wells MW-1, MW-2, MW-3, MW-8, MW-11 and MW-14, at thicknesses ranging from 0.04 feet to 6.90 feet, prior to purging. Based on the results of laboratory analyses, the groundwater samples collected from monitoring wells MW-2, MW-5, MW-6, MW-7, MW-9, MW-10, MW-12, MW-13, and MW-14 exhibited concentrations of benzene exceeding New Mexico Water WQCC standards. In addition, the groundwater samples collected from each of these monitoring wells, with the exception of monitoring well MW-13, exhibited concentrations of toluene, ethylbenzene, total xylenes, MTBE, EDC, EDB, naphthalene, 1-methylnaphthalene and/or 2-methylnaphthalene exceeding New Mexico Water WQCC standards.

A cumulative summary of groundwater analytical results is presented as Table 2 in Appendix B. The executed chain-of-custody form and laboratory data sheets are provided in Appendix C. A groundwater concentration map is provided as Exhibit 2 in Appendix A.

Based on depth to groundwater data and NAPL thickness data collected on January 9, 2015 from the seven off-site monitoring wells and the seven on-site monitoring wells, the groundwater flow direction at the site was towards the south. A correction factor of 0.729, commonly accepted as the density of gasoline, was used for the purpose of correcting the static groundwater elevation in these wells. The actual density of the NAPL observed in the wells has not been evaluated and differences in density from the assumed value would affect the calculated groundwater gradient direction. A total volume of 30 gallons of NAPL was removed from monitoring wells MW-1, MW-2, MW-3, MW-8, MW-11 and MW-14 during the sampling activities. The NAPL was stored in a 55-gallon drum staged on the east side of the on-site building. A cumulative summary of groundwater and NAPL measurements is presented as Table 1 in Appendix B. A groundwater gradient map is provided as Exhibit 3 in Appendix A. A map of NAPL thickness is presented as Exhibit 4 in Appendix A.

4.0 AMENDMENTS / UNANTICIPATED SITE CONDITIONS

Unanticipated site conditions were not encountered during Terracon's assessment activities.

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January 19, 2015 ■ Terracon Project No. 66127029.7



CONCLUSIONS AND RECOMMENDATIONS 5.0

Fourteen monitoring wells were gauged and sampled and/or purged of NAPL at the Fairview Station facility located at 1626 N. Riverside Drive in Española, Rio Arriba County, New Mexico. Based on the results of Terracon's assessment activities. Terracon concludes the following:

- The depths to groundwater, corrected for NAPL thickness, at the site ranged from 14.40 to 16.80 feet bgs on January 9, 2015 with a gradient generally towards the south.
- NAPL was observed in monitoring wells MW-1, MW-2, MW-3, MW-8, MW-11 and MW-14 prior to purging. The groundwater samples collected from monitoring wells MW-2, MW-5, MW-6, MW-7, MW-9, MW-10, MW-12, MW-13, and MW-14 exhibited concentrations of benzene exceeding New Mexico Water WQCC standards.
- All groundwater samples collected, except for monitoring well MW-4, exhibited concentrations of toluene, ethylbenzene, total xylenes, MTBE, EDC, EDB, naphthalene, 1-methylnaphthalene and/or 2-methylnaphthalene exceeding New Mexico Water WQCC standards.
- NAPL was observed in monitoring wells MW-1, MW-2, MW-3, MW-8, MW-11 and MW-14, at thicknesses ranging from 0.04 feet to 6.90 feet, prior to purging. A total volume of 30 gallons of NAPL was removed from monitoring wells MW-1, MW-2, MW-3, MW-8, MW-11 and MW-14 during the sampling activities.

Based on the results of this Groundwater Monitoring Report, Terracon recommends the following:

- The installation of additional monitoring wells to delineate the horizontal extent of NAPL and dissolved-phase groundwater contaminants exceeding WQCC standards, and,
- Interim removal of NAPL from the monitoring wells.

Fairview Station Española, NM

January 19, 2015 Terracon Project No. 66127029.7



6.0 STATEMENT OF FAMILIARITY

This report was prepared by Ms. Missy A. Halick and was reviewed by Mr. Mark R. Hillier, P.G. whom is personally familiar with the information submitted in this report and the attached documents and attests that it is true and complete.

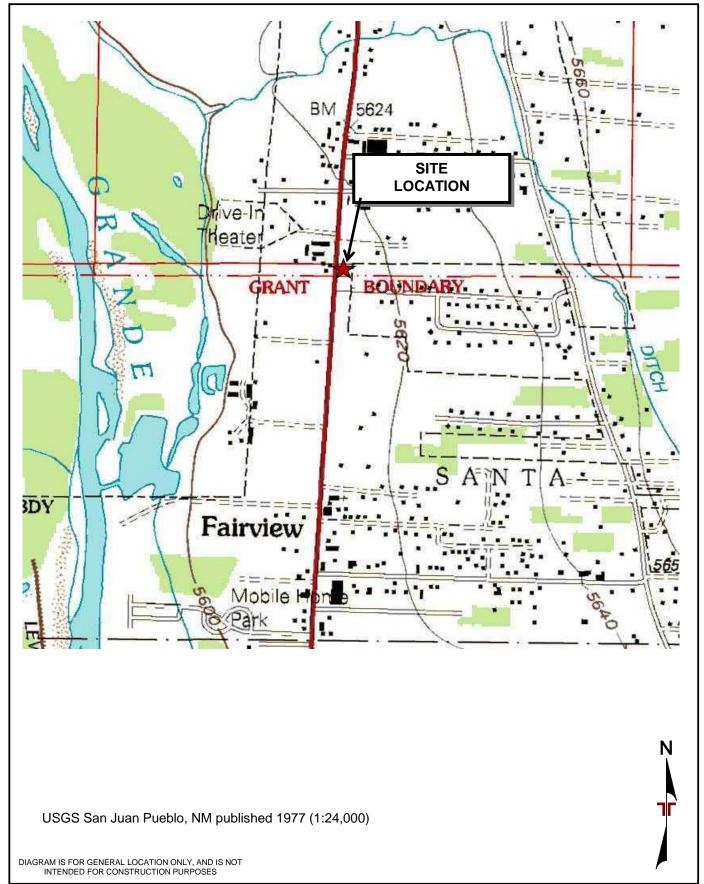
Prepared by: Missy A. Halick
Missy Halick
Signature
Affiliation: Terracon Consultants, Inc. Title: Project Manager Date: January 19, 2015
Supervised by: Mark R. Hillier, P.G. (TX #4454)
Signature:Much 11 Will.

Affiliation: Terracon Consultants, Inc.

Title: Office Manager Date: January 19, 2015

APPENDIX A

Exhibits



Project Manager: MRH	Project No. 66127029.7
Drawn by: JAS	Scale: 1 ≅ 1,000'
Checked by: MAH	File Name:
Approved by: MRH	Date: 3/6/13

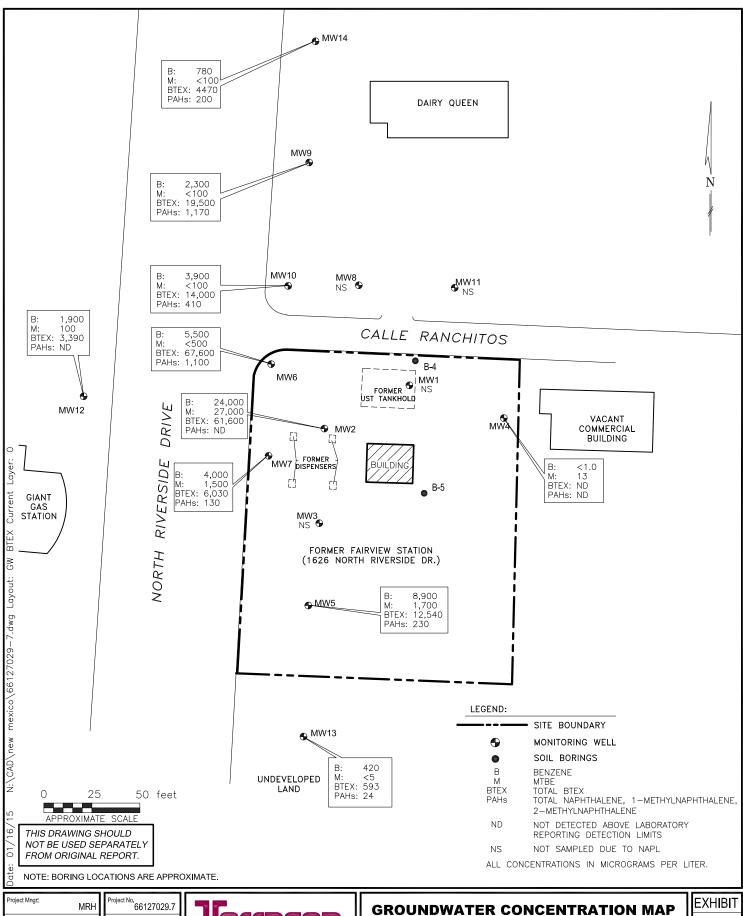


FAIRVIEW STATION 1626 NORTH RIVERSIDE DRIVE ESPANOLA, RIO ARRIBA COUNTY, NEW MEXICO

SITE TOPOGRAPHIC MAP

EXHIBIT

1



Project Mngr.	MRH
Drawn By:	JJD
Checked By:	MRH
Approved By:	MRH

Project No. 66127029.7
Scale: AS SHOWN
Date: 01/16/15

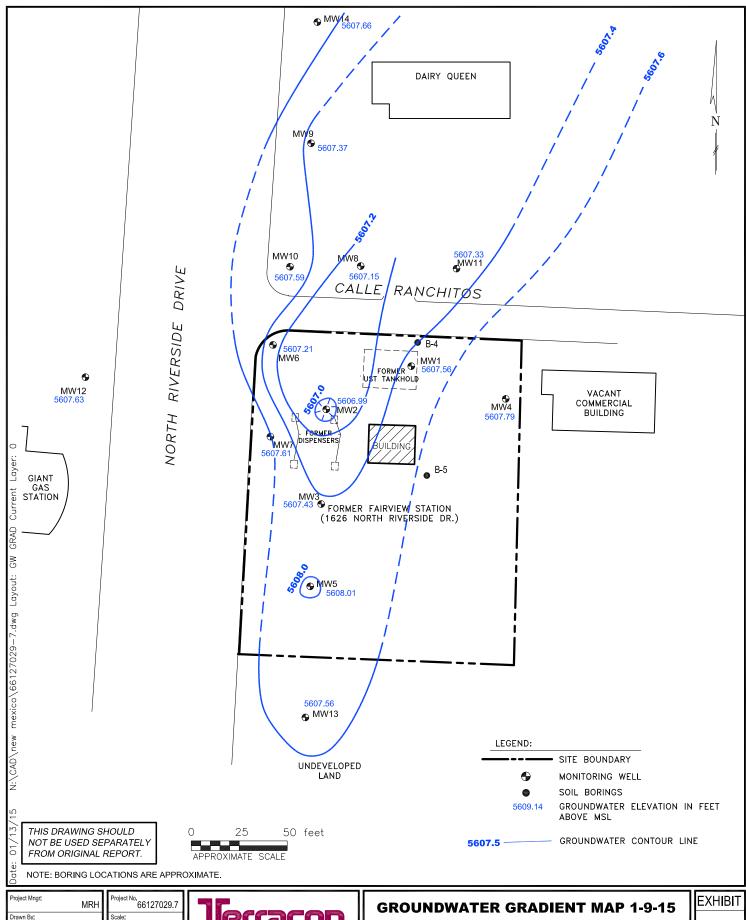


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FAIRVIEW STATION 1626 NORTH RIVERSIDE DRIVE ESPANOLA, RIO ARRIBA COUNTY, NEW MEXICO

2



Project Mngr.	MRH
Drawn By:	JJD
Checked By:	MRH
Approved By:	MRH

Project No. 66127029.7

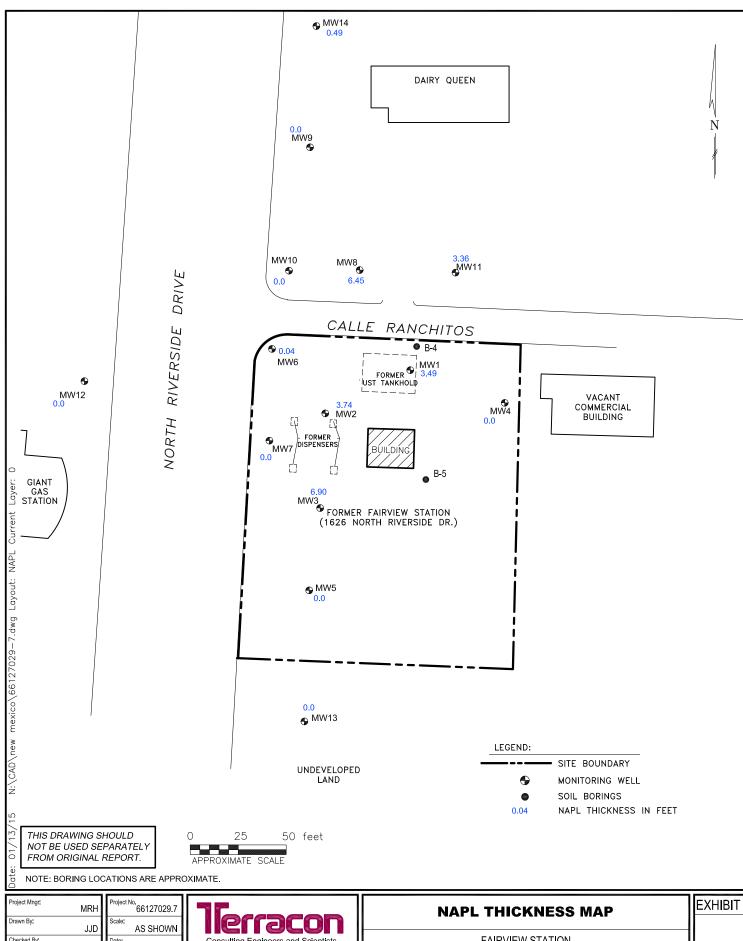
Scale: AS SHOWN

Date: 01/13/15



FAIRVIEW STATION 1626 NORTH RIVERSIDE DRIVE ESPANOLA, RIO ARRIBA COUNTY, NEW MEXICO

3



Desired Marrie	
Project Mngr.	MRH
Drawn By:	
	JJD
Checked By:	
	MRH
Approved By:	
,	MRH

01/13/15



FAIRVIEW STATION 1626 NORTH RIVERSIDE DRIVE ESPANOLA, RIO ARRIBA COUNTY, NEW MEXICO

APPENDIX B

Table 1 – Groundwater and NAPL Measurements

Table 2 – Groundwater Analytical Results

TABLE 1 GROUND WATER AND NAPL MEASUREMENTS

Fairview Station Facility # 28779, Relese ID# 4657, WP ID# 17351 1626 N. Riverside Drive, Espanola, New Mexico

Monitor Well	Gauging Date	Total Depth From TOC ¹ (feet)	Screened Interval (feet)	Top of Casing Elevation (feet)	Depth to Groundwater From TOC (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Removed (gallons)	Cumulative NAPL Removed (gallons)	Groundwater Elevation ² (feet)
	2/1/2013			5622.71	not measured	not measured		0.0	0.0	
	2/4/2013			5622.71	not measured	not measured		0.0	0.0	
	2/27/2013			5622.71	14.40	14.06	0.34	0.0	0.0	5608.56
	6/3/2013			5622.71	14.20	13.92	0.28	0.5	0.5	5608.71
	6/27/2013			5622.71	14.80	14.43	0.37	0.1	0.6	5608.18
MW-1	7/10/2013	28	13-28	5622.71	14.45	14.21	0.24	0.0	0.6	5608.43
	10/29/2013		13-20	5622.71	15.25	13.36	1.89	1.5	2.1	5608.84
	11/12/2013			5622.71	15.83	15.37	0.46	0.3	2.4	5607.22
	11/26/2013			5622.71	14.90	13.82	1.08	0.3	2.7	5608.60
	10/3/2014			5622.71	14.85	14.81	0.04	0.0	2.7	5607.89
	12/10/2014			5622.71	18.71	15.51	3.20	not measured		5606.33
	1/9/2015			5622.71	17.69	14.20	3.49	not measured	2.7	5607.56
	2/1/2013			5622.99	not measured	not measured		4.5	4.5	
	2/4/2013			5622.99	not measured	not measured		5.0	9.5	
	2/27/2013			5622.99	18.56	13.11	5.45	0.0	9.5	5608.40
	6/3/2013			5622.99	17.39	13.42	3.97	4.5	14.0	5608.49
	6/27/2013			5622.99	18.20	13.98	4.22	3.0	17.0	5607.87
MW-2	7/10/2013	28	13-28	5622.99	17.50	13.67	3.83	2.5	19.5	5608.28
10100-2	10/29/2013	20	13-20	5622.99	18.68	12.66	6.02	3.5	23.0	5608.70
	11/12/2013			5622.99	19.40	14.34	5.06	2.8	25.8	5607.28
	11/26/2013			5622.99	18.56	12.95	5.61	3.0	28.8	5608.52
	10/3/2014			5622.99	15.05	14.97	0.08	0.0	28.8	5608.00
	12/10/2014			5622.99	18.64	15.77	2.87	not measured		5606.44
	1/9/2015			5622.99	18.73	14.99	3.74	not measured	28.8	5606.99

TABLE 1 Con't.

GROUND WATER AND NAPL MEASUREMENTS

Fairview Station

Facility # 28779, Relese ID# 4657, WP ID# 17351 1626 N. Riverside Drive, Espanola, New Mexico

Monitor Well	Gauging Date	Total Depth From TOC ¹ (feet)	Screened Interval (feet)	Top of Casing Elevation (feet)	Depth to Groundwater From TOC (feet)	Depth to NAPL	NAPL Thickness (feet)	NAPL Removed (gallons)	Cumulative NAPL Removed (gallons)	Groundwater Elevation ² (feet)
	2/1/2013			5623.02	not measured	not measured		0.5	0.5	
	2/4/2013			5623.02	not measured	not measured		2.0	2.5	
	2/27/2013			5623.02	16.69	13.80	2.89	0.0	2.5	5608.44
	6/3/2013			5623.02	17.57	13.46	4.11	4.5	7.0	5608.45
	6/27/2013			5623.02	18.33	13.88	4.45	3.5	10.5	5607.93
MW-3	7/10/2013	28	13-28	5623.02	17.68	13.70	3.98	3.0	13.5	5608.24
	10/29/2013			5623.02	19.46	12.50	6.96	7.0	20.5	5608.63
	11/12/2013			5623.02	20.62	13.19	7.43	5.0	25.5	5607.82
	11/26/2013			5623.02	19.02	13.02	6.00	4.3	29.8	5608.37
	10/3/2014			5623.02	16.91	13.96	2.95	0.0	29.8	5608.26
	12/10/2014			5623.02	22.26	14.75	7.51	not measured		5606.23
	1/9/2015			5623.02	20.62	13.72	6.90	not measured	29.8	5607.43
	10/29/2013	•		5623.67	14.13	14.13	0.00	0.0		5609.54
	11/12/2013		12-27	5623.67	15.12	15.12	0.00	0.0		5608.55
MW-4	11/26/2013			5623.67	15.20	15.20	0.00	0.0		5608.47
IVI V V -4	10/3/2014			5623.67	16.21	16.21	0.00	0.0		5607.46
	12/9/2014			5623.67		Data				
	1/9/2015			5623.67	15.88	15.88	0.00	0.0		5607.79
	10/29/2013			5622.41	13.77	13.77	0.00	0.0		5608.64
	11/12/2013		10-25	5622.41	13.93	13.93	0.00	0.0		5608.48
MW-5	11/26/2013	25		5622.41	14.07	14.07	0.00	0.0		5608.34
10100-5	10/3/2014	25	10-23	5622.41	14.48	14.48	0.00	0.0		5607.93
	12/9/2014			5622.41		Data	Lost			
	1/9/2015			5622.41	14.40	14.40	0.00	0.0		5608.01
	10/29/2013			5622.80	13.97	13.97	0.00	0.0		5608.83
	11/12/2013	25		5622.80	14.40	14.39	0.01	0.0		5608.41
MW-6	11/26/2013		10-25	5622.80	14.33	14.31	0.02	0.0		5608.48
IVI V V-U	10/3/2014		10-20	5622.80	15.65	15.60	0.05	0.0		5607.19
	12/10/2014			5622.80	16.54	16.20	0.34	not measured		5606.51
	1/9/2015			5622.80	15.62	15.58	0.04	not measured		5607.21

TABLE 1 Con't.

GROUND WATER AND NAPL MEASUREMENTS

Fairview Station

Facility # 28779, Relese ID# 4657, WP ID# 17351 1626 N. Riverside Drive, Espanola, New Mexico

Monitor Well	Gauging Date	Total Depth From TOC ¹ (feet)	Screened Interval (feet)	Top of Casing Elevation (feet)	Depth to Groundwater From TOC (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Removed (gallons)	Cumulative NAPL Removed (gallons)	Groundwater Elevation ² (feet)
	10/29/2013			5622.86	14.17	14.17	0.00	0.0		5608.69
	11/12/2013			5622.86	14.62	14.62	0.00	0.0		5608.24
MW-7	11/26/2013	25	10-25	5622.86	14.50	14.50	0.00	0.0		5608.36
10100-7	10/3/2014	25	10-25	5622.86	15.84	15.84	0.00	0.0		5607.02
	12/9/2014			5622.86		Data	Lost			
	1/9/2015			5622.86	15.25	15.25	0.00	0.0		5607.61
'	10/29/2013			5623.90	17.35	13.80	3.55	2.5	2.5	5609.14
	11/12/2013			5623.90	21.03	14.49	6.54	3.0	5.5	5607.64
MW-8	11/26/2013	27	12-27	5623.90	18.30	14.05	4.25	3.5	9.0	5608.70
IVIVV-O	10/3/2014	21	12-21	5623.90	17.52	14.95	2.57	0.0	9.0	5608.25
	12/10/2014			5623.90	21.78	15.27	6.51	not measured		5606.87
	1/9/2015			5623.90	21.45	15.00	6.45	not measured	9.0	5607.15
MW-9	10/3/2014			5623.83	16.69	16.69	0.00	0.0		5607.14
	12/10/2014	25	8-23	5623.83	17.15	17.15	0.00	0.0		5606.68
	1/9/2015			5623.83	16.46	16.46	0.00	0.0		5607.37
	10/3/2014		10-25	5623.87	16.78	16.78	0.00	0.0		5607.09
MW-10	12/9/2014	25		5623.87		Data				
	1/9/2015			5623.87	16.28	16.28	0.00	0.0		5607.59
	10/3/2014			5624.13	15.71	15.55	0.16	0.0		5608.54
MW-11	12/10/2014	25	9-24	5624.13	20.15	16.52	3.63	not measured		5606.63
	1/9/2015			5624.13	19.25	15.89	3.36	not measured	5.0	5607.33
	10/3/2014			5622.84	15.52	15.52	0.00	0.0		5607.32
MW-12	12/9/2014	30	11-26	5622.84	15.94	15.94	0.00	0.0		5606.90
	1/9/2015			5622.84	15.21	15.21	0.00	0.0		5607.63
	10/3/2014			5622.32	14.81	14.81	0.00	0.0		5607.51
MW-13	12/9/2014	24	9-24	5622.32		Data	Lost			
	1/9/2015			5622.32	14.76	14.76	0.00	0.0		5607.56
	10/3/2014			5623.75	16.05	15.76	0.29	0.0		5607.91
MW-14	12/10/2014	25	9-24	5623.75	18.57	16.38	2.19	not measured		5606.78
	1/9/2015			5623.75	16.45	15.96	0.49	not measured	2.0	5607.66

^{1 -} TOC = Top-of-Casing elevation above mean sea level surveyed by a NM Licensed Surveyor.

^{2 -} Product density value of 0.729 used for purpose of calculating water column overburden.

Table 2
Groundwater Analytical Results - BTEX/MTBE/EDC/Naphthalene/1- and 2-Methylnaphthalene (8260B), EDB (8011/504.1), PAHs (8270C), Dissolved Lead (6010B), and TPH (8015B)
Fairview Station - Facility ID# 28779, Release ID# 4657

				e e	SS				°80	alene³	alene³		ead	ТРН	(TX1005 Re (mg/Kg)	ev. 3)
Sample I.D.	Sample Date	Benzene (1/6/L)	Toluene (1/6/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDB (µg/L)	(hg/L)	Naphthalene³ (µg/L)	1-Methyinaphthalene ³ (µg/L)	2-Methyinaphthalene ³ (µg/L)	РАНS¹ (µg/L)	Dissolved Lead (mg/L)	MRO	DRO	GRO
MW-1	02/04/13	16,000	21,000	3,700	14,000	3,900	<10	64	NA ²	NA	NA	Naphthalene - 630 1-Methylnaphthalene - 190 2-Methylnaphthalene - 350 Acenaphthene - 1.4 Fluorene - 1.4 Phenanthrene - 1.3	0.0035	<5.0	10	140
	12/09/14		Not Sampled Due to NAPL													
MW-2	02/04/13		Not Sampled Due to NAPL													
10100-2	12/10/14	24,000	23,000	2,600	12,000	27,000	0.2	<500	<1000	<2000	<2000	NA	NA	NA	NA	NA
MW-3	02/04/13								Not Sar	npled Due to	NAPL					
IVIVV-3	12/09/14	Not Sampled Due to NAPL														
MW-4	10/29/13	<1.0	<1.0	<1.0	<2.0	31	<0.01	8.8	NA	NA	NA	NA	<0.005	NA	NA	NA
10100-4	12/09/14	<1.0	<1.0	<1.0	<1.5	13	<0.01	2.4	<2.0	<4.0	<4.0	NA	NA	NA	NA	NA
MW-5	10/29/13	4,300	1,100	740	2,000	540	<0.01	44	NA	NA	NA	Naphthalene - 130 1-Methylnaphthalene - 36 2-Methylnaphthalene - 69	<0.005	NA	NA	NA
	12/09/04	8,900	940	1,200	1,500	1,700	<0.01	<100	230	<400	<400	NA	NA	NA	NA	NA
MW-6	10/29/13	10,000	23,000	3,100	13,000	110	<0.01	<50	NA	NA	NA	Naphthalene - 450 1-Methylnaphthalene - 92 2-Methylnaphthalene - 170	<0.005	NA	NA	NA
	12/10/14	5,500	29,000	5,100	28,000	<500	<0.01	<500	1,100	<2000	<2000	NA	NA	NA	NA	NA
MW-7	10/29/13	7,700	7,400	1,700	8,900	3,500	<0.01	<50	NA	NA	NA	Naphthalene - 370 1-Methylnaphthalene - 88 2-Methylnaphthalene - 180	<0.005	NA	NA	NA
	12/09/14	4,000	420	510	1,100	1,500	<0.01	<50	130	<200	<200	NA	NA	NA	NA	NA
MM	10/29/13				•				Not Sar	npled Due t	o NAPL		•		•	
MW-8	12/09/14								Not San	npled Due t	NAPL					

Table 2
Groundwater Analytical Results - BTEX/MTBE/EDC/Naphthalene/1- and 2-Methylnaphthalene (8260B), EDB (8011/504.1), PAHs (8270C), Dissolved Lead (6010B), and TPH (8015B)
Fairview Station - Facility ID# 28779, Release ID# 4657

										ene ³	ene³		ъ	TPH (TX1005 Rev. 3) (mg/Kg)		
Sample I.D.	Sample Date	Benzene θηθη)	Toluene (1/6rl)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	(1/6rl)	EDB (µ9/L)	(1/6rl)	Naphthalene³ (µg/L)	1-Methylnaphthalene ³ (µg/L)	2-Methylnaphthalene ³ (µg/L)	PAHS¹ (Hg/L)	Dissolved Lead (mg/L)	MRO	DRO	GRO
MW-9	07/21/14	2,000	1,100	1,800	6,600	<100	<0.01	<100	NA	NA	NA	Naphthalene - 330 1-Methylnaphthalene - 110 2-Methylnaphthalene - 200 Acenaphthene - 0.52	0.014	NA	NA	NA
	12/09/14	2,300	2,600	2,600	12,000	<100	<0.01	<100	720	<400	450	NA	NA	NA	NA	NA
MW-10	07/22/14	4,200	5,900	2,700	10,000	170	<0.01	<100	NA	NA	NA	Naphthalene - 470 1-Methylnaphthalene - 160 2-Methylnaphthalene - 310 Acenaphthene - 0.94 Fluorene - 0.64 Phenanthrene - 0.58	0.084	NA	NA	NA
	12/09/14	3,900	2,000	2,000	6,100	<100	<0.01	<100	410	<400	<400	NA	NA	NA	NA	NA
MW-11	07/22/14	10,000	16,000	2,600	11,000	330	<0.01	<100	NA	NA	NA	Naphthalene - 540 1-Methylnaphthalene - 190 2-Methylnaphthalene - 360 Acenaphthene - 0.94 Fluorene - 0.94 Phenanthrene - 0.90	0.088	NA	NA	NA
	12/09/14								Not San	npled Due t	o NAPL		•			
MW-12	08/21/14	1,800	110	340	810	230	<0.01	<10	NA	NA	NA	Naphthalene - 50 1-Methylnaphthalene - 8 2-Methylnaphthalene - 13	0.130	NA	NA	NA
	12/09/14	1,900	310	470	710	100	<0.01	<50	<100	<200	<200	NA	NA	NA	NA	NA
MW-13	07/18/14	130	<10	35	24	<10	<0.01	<10	NA	NA	NA	Naphthalene - 9.6 1-Methylnaphthalene - 20 2-Methylnaphthalene - 35	0.062	NA	NA	NA
	12/09/14	420	5.0	78	90	<5.0	<0.01	<5.0	24	<20	<20	NA	NA	NA	NA	NA

Table 2

Groundwater Analytical Results - BTEX/MTBE/EDC/Naphthalene/1- and 2-Methylnaphthalene (8260B), EDB (8011/504.1), PAHs (8270C), Dissolved Lead (6010B), and TPH (8015B)

Fairview Station - Facility ID# 28779, Release ID# 4657

				e e	S				°0	alene ³	alene ³		ad	TPH (TX1005 Rev. 3) (mg/Kg)		
Sample I.D.	Sample Date	Benzene (μg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDB (µg/L)	EDC (µg/L)	Naphthalene³ (µg/L)	1-Methylnaphthalene ³ (µg/L)	2-Methylnaphthalene ³ (µg/L)	PAHs¹ (µg/L)	Dissolved Lead (mg/L)	MRO	DRO	GRO
MW-14	08/21/14	480	210	65	160	<10	2.3	84	NA	NA	NA	Naphthalene - 18 1-Methylnaphthalene - 3.7 2-Methylnaphthalene - 3.3	0.020	NA	NA	NA
	12/09/14	780	1700	290	1700	<100	15	170	200	<400	<400	NA	NA	NA	NA	NA
wqcc s	Standards	10	750	750	620	100	0.1	10	30	30	Not Published	Naphthalene - 30 1-Methylnaphthalene - 30 2-Methylnaphthalene - not published Acenaphthene - not published Fluorene - not published Phenanthrene - not published	0.05	٨	lot Applicabl	e

^{1 -} Only consitiuents detected above laboratory reporting limits are listed

^{2 -} NA = Not analyzed for these constituents

^{3 -} Naphthalene, 1-Methylnaphthalene, 2-Methylnapthalene analyzed using EPA Method 8260

APPENDIX C

Laboratory Analytical Reports



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

December 18, 2014

Mark Hillier
Terracon
4905 Hawkins, NE
Albuquerque, NM 87109
TEL: (505) 715-0375

TEL: (505) 715-0375 FAX (505) 797-4288

RE: Fairview Station OrderNo.: 1412522

Dear Mark Hillier:

Hall Environmental Analysis Laboratory received 11 sample(s) on 12/10/2014 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 qualifers 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1412522**

Date Reported: 12/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Terracon Client Sample ID: MW-5

 Project:
 Fairview Station
 Collection Date: 12/9/2014 10:13:00 AM

 Lab ID:
 1412522-001
 Matrix: AQUEOUS
 Received Date: 12/10/2014 4:09:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB				Analysi	:: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1 12/11/2014 1:31:10 PM	1 16778
EPA METHOD 8260: VOLATILES SI			Analyst	: cadg	
Benzene	8900	500	μg/L	500 12/15/2014 3:08:50 PM	1 R23141
Toluene	940	100	μg/L	100 12/12/2014 1:37:01 PM	R23125
Ethylbenzene	1200	100	μg/L	100 12/12/2014 1:37:01 PM	R23125
Methyl tert-butyl ether (MTBE)	1700	100	μg/L	100 12/12/2014 1:37:01 PM	R23125
1,2-Dichloroethane (EDC)	ND	100	μg/L	100 12/12/2014 1:37:01 PM	R23125
Naphthalene	230	200	μg/L	100 12/12/2014 1:37:01 PM	R23125
1-Methylnaphthalene	ND	400	μg/L	100 12/12/2014 1:37:01 PM	R23125
2-Methylnaphthalene	ND	400	μg/L	100 12/12/2014 1:37:01 PM	R23125
Xylenes, Total	1500	150	μg/L	100 12/12/2014 1:37:01 PM	R23125
Surr: 1,2-Dichloroethane-d4	99.1	70-130	%REC	100 12/12/2014 1:37:01 PM	R23125
Surr: 4-Bromofluorobenzene	105	70-130	%REC	100 12/12/2014 1:37:01 PM	R23125
Surr: Dibromofluoromethane	83.6	70-130	%REC	100 12/12/2014 1:37:01 PM	R23125
Surr: Toluene-d8	106	70-130	%REC	100 12/12/2014 1:37:01 PM	R23125

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 15

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1412522**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/18/2014

CLIENT: Terracon Client Sample ID: MW-13

 Project:
 Fairview Station
 Collection Date: 12/9/2014 9:55:00 AM

 Lab ID:
 1412522-002
 Matrix: AQUEOUS
 Received Date: 12/10/2014 4:09:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB					Analys	t: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1	12/11/2014 1:46:26 PM	<i>l</i> 16778
EPA METHOD 8260: VOLATILES SH				Analys	t: cadg	
Benzene	420	5.0	μg/L	5	12/12/2014 2:57:16 PM	/ R23125
Toluene	5.0	5.0	μg/L	5	12/12/2014 2:57:16 PM	/I R23125
Ethylbenzene	78	5.0	μg/L	5	12/12/2014 2:57:16 PM	/I R23125
Methyl tert-butyl ether (MTBE)	ND	5.0	μg/L	5	12/12/2014 2:57:16 PM	/ R23125
1,2-Dichloroethane (EDC)	ND	5.0	μg/L	5	12/12/2014 2:57:16 PM	/ R23125
Naphthalene	24	10	μg/L	5	12/12/2014 2:57:16 PM	/ R23125
1-Methylnaphthalene	ND	20	μg/L	5	12/12/2014 2:57:16 PM	/ R23125
2-Methylnaphthalene	ND	20	μg/L	5	12/12/2014 2:57:16 PM	/ R23125
Xylenes, Total	90	7.5	μg/L	5	12/12/2014 2:57:16 PM	/ R23125
Surr: 1,2-Dichloroethane-d4	97.9	70-130	%REC	5	12/12/2014 2:57:16 PM	/ R23125
Surr: 4-Bromofluorobenzene	95.5	70-130	%REC	5	12/12/2014 2:57:16 PM	/ R23125
Surr: Dibromofluoromethane	85.4	70-130	%REC	5	12/12/2014 2:57:16 PM	/ R23125
Surr: Toluene-d8	106	70-130	%REC	5	12/12/2014 2:57:16 PM	/ R23125

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 15

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1412522**

Date Reported: 12/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Terracon Client Sample ID: MW-4

 Project:
 Fairview Station
 Collection Date: 12/9/2014 10:50:00 AM

 Lab ID:
 1412522-003
 Matrix: AQUEOUS
 Received Date: 12/10/2014 4:09:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB				A	nalyst: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1 12/11/2014 2:01:	41 PM 16778
EPA METHOD 8260: VOLATILES SH	HORT LIST			А	nalyst: cadg
Benzene	ND	1.0	μg/L	1 12/12/2014 3:23:	58 PM R23125
Toluene	ND	1.0	μg/L	1 12/12/2014 3:23	58 PM R23125
Ethylbenzene	ND	1.0	μg/L	1 12/12/2014 3:23	58 PM R23125
Methyl tert-butyl ether (MTBE)	13	1.0	μg/L	1 12/12/2014 3:23	58 PM R23125
1,2-Dichloroethane (EDC)	2.4	1.0	μg/L	1 12/12/2014 3:23:	58 PM R23125
Naphthalene	ND	2.0	μg/L	1 12/12/2014 3:23	58 PM R23125
1-Methylnaphthalene	ND	4.0	μg/L	1 12/12/2014 3:23	58 PM R23125
2-Methylnaphthalene	ND	4.0	μg/L	1 12/12/2014 3:23	58 PM R23125
Xylenes, Total	ND	1.5	μg/L	1 12/12/2014 3:23	58 PM R23125
Surr: 1,2-Dichloroethane-d4	106	70-130	%REC	1 12/12/2014 3:23	58 PM R23125
Surr: 4-Bromofluorobenzene	115	70-130	%REC	1 12/12/2014 3:23	58 PM R23125
Surr: Dibromofluoromethane	94.4	70-130	%REC	1 12/12/2014 3:23	58 PM R23125
Surr: Toluene-d8	109	70-130	%REC	1 12/12/2014 3:23	58 PM R23125

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 15

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1412522**

Date Reported: 12/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Terracon Client Sample ID: MW-7

 Project:
 Fairview Station
 Collection Date: 12/9/2014 11:32:00 AM

 Lab ID:
 1412522-004
 Matrix: AQUEOUS
 Received Date: 12/10/2014 4:09:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed B	atch
EPA METHOD 8011/504.1: EDB				Analyst: L	RW
1,2-Dibromoethane	ND	0.010	μg/L	1 12/11/2014 2:32:19 PM 10	6778
EPA METHOD 8260: VOLATILES SH			Analyst: ca	adg	
Benzene	4000	50	μg/L	50 12/12/2014 3:50:45 PM R	23125
Toluene	420	50	μg/L	50 12/12/2014 3:50:45 PM R	23125
Ethylbenzene	510	50	μg/L	50 12/12/2014 3:50:45 PM R	23125
Methyl tert-butyl ether (MTBE)	1500	50	μg/L	50 12/12/2014 3:50:45 PM R	23125
1,2-Dichloroethane (EDC)	ND	50	μg/L	50 12/12/2014 3:50:45 PM R	23125
Naphthalene	130	100	μg/L	50 12/12/2014 3:50:45 PM R	23125
1-Methylnaphthalene	ND	200	μg/L	50 12/12/2014 3:50:45 PM R	23125
2-Methylnaphthalene	ND	200	μg/L	50 12/12/2014 3:50:45 PM R	23125
Xylenes, Total	1100	75	μg/L	50 12/12/2014 3:50:45 PM R	23125
Surr: 1,2-Dichloroethane-d4	98.2	70-130	%REC	50 12/12/2014 3:50:45 PM R	23125
Surr: 4-Bromofluorobenzene	98.6	70-130	%REC	50 12/12/2014 3:50:45 PM R	23125
Surr: Dibromofluoromethane	84.7	70-130	%REC	50 12/12/2014 3:50:45 PM R	23125
Surr: Toluene-d8	108	70-130	%REC	50 12/12/2014 3:50:45 PM R	23125

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 4 of 15

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1412522**

Date Reported: 12/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Terracon Client Sample ID: MW-10

 Project:
 Fairview Station
 Collection Date: 12/9/2014 12:10:00 PM

 Lab ID:
 1412522-005
 Matrix: AQUEOUS
 Received Date: 12/10/2014 4:09:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB				Analys	t: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1 12/11/2014 2:47:35 PM	1 16778
EPA METHOD 8260: VOLATILES SI			Analys	t: cadg	
Benzene	3900	100	μg/L	100 12/12/2014 4:17:33 PM	1 R23125
Toluene	2000	100	μg/L	100 12/12/2014 4:17:33 PM	1 R23125
Ethylbenzene	2000	100	μg/L	100 12/12/2014 4:17:33 PM	1 R23125
Methyl tert-butyl ether (MTBE)	ND	100	μg/L	100 12/12/2014 4:17:33 PM	1 R23125
1,2-Dichloroethane (EDC)	ND	100	μg/L	100 12/12/2014 4:17:33 PM	1 R23125
Naphthalene	410	200	μg/L	100 12/12/2014 4:17:33 PM	1 R23125
1-Methylnaphthalene	ND	400	μg/L	100 12/12/2014 4:17:33 PM	1 R23125
2-Methylnaphthalene	ND	400	μg/L	100 12/12/2014 4:17:33 PM	1 R23125
Xylenes, Total	6100	150	μg/L	100 12/12/2014 4:17:33 PM	1 R23125
Surr: 1,2-Dichloroethane-d4	92.4	70-130	%REC	100 12/12/2014 4:17:33 PM	1 R23125
Surr: 4-Bromofluorobenzene	88.3	70-130	%REC	100 12/12/2014 4:17:33 PM	1 R23125
Surr: Dibromofluoromethane	84.2	70-130	%REC	100 12/12/2014 4:17:33 PM	1 R23125
Surr: Toluene-d8	100	70-130	%REC	100 12/12/2014 4:17:33 PN	1 R23125

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 5 of 15

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/18/2014

Lab Order **1412522**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Terracon Client Sample ID: MW-9

Project: Fairview Station
 Collection Date: 12/9/2014 10:00:00 AM

 Lab ID: 1412522-006
 Matrix: AQUEOUS
 Received Date: 12/10/2014 4:09:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB				Analys	t: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1 12/11/2014 3:02:59 PM	1 16778
EPA METHOD 8260: VOLATILES SHO	ORT LIST			Analys	t: cadg
Benzene	2300	100	μg/L	100 12/12/2014 4:44:14 PM	1 R23125
Toluene	2600	100	μg/L	100 12/12/2014 4:44:14 PN	1 R23125
Ethylbenzene	2600	100	μg/L	100 12/12/2014 4:44:14 PN	1 R23125
Methyl tert-butyl ether (MTBE)	ND	100	μg/L	100 12/12/2014 4:44:14 PN	1 R23125
1,2-Dichloroethane (EDC)	ND	100	μg/L	100 12/12/2014 4:44:14 PN	1 R23125
Naphthalene	720	200	μg/L	100 12/12/2014 4:44:14 PN	1 R23125
1-Methylnaphthalene	ND	400	μg/L	100 12/12/2014 4:44:14 PN	1 R23125
2-Methylnaphthalene	450	400	μg/L	100 12/12/2014 4:44:14 PN	1 R23125
Xylenes, Total	12000	150	μg/L	100 12/12/2014 4:44:14 PN	1 R23125
Surr: 1,2-Dichloroethane-d4	100	70-130	%REC	100 12/12/2014 4:44:14 PN	1 R23125
Surr: 4-Bromofluorobenzene	87.8	70-130	%REC	100 12/12/2014 4:44:14 PN	1 R23125
Surr: Dibromofluoromethane	93.0	70-130	%REC	100 12/12/2014 4:44:14 PN	1 R23125
Surr: Toluene-d8	106	70-130	%REC	100 12/12/2014 4:44:14 PN	1 R23125

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Lab Order **1412522**

Date Reported: 12/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Terracon Client Sample ID: MW-12

 Project:
 Fairview Station
 Collection Date: 12/9/2014 1:21:00 PM

 Lab ID:
 1412522-007
 Matrix: AQUEOUS
 Received Date: 12/10/2014 4:09:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB					Analys	t: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1	12/11/2014 3:18:20 PM	<i>I</i> 16778
EPA METHOD 8260: VOLATILES SH	HORT LIST				Analys	t: cadg
Benzene	1900	50	μg/L	50	12/12/2014 5:10:59 PM	/ R23125
Toluene	310	50	μg/L	50	12/12/2014 5:10:59 PM	/ R23125
Ethylbenzene	470	50	μg/L	50	12/12/2014 5:10:59 PM	/ R23125
Methyl tert-butyl ether (MTBE)	100	50	μg/L	50	12/12/2014 5:10:59 PM	/ R23125
1,2-Dichloroethane (EDC)	ND	50	μg/L	50	12/12/2014 5:10:59 PM	/ R23125
Naphthalene	ND	100	μg/L	50	12/12/2014 5:10:59 PM	/ R23125
1-Methylnaphthalene	ND	200	μg/L	50	12/12/2014 5:10:59 PM	/ R23125
2-Methylnaphthalene	ND	200	μg/L	50	12/12/2014 5:10:59 PM	/ R23125
Xylenes, Total	710	75	μg/L	50	12/12/2014 5:10:59 PM	/ R23125
Surr: 1,2-Dichloroethane-d4	96.9	70-130	%REC	50	12/12/2014 5:10:59 PM	/ R23125
Surr: 4-Bromofluorobenzene	111	70-130	%REC	50	12/12/2014 5:10:59 PM	/ R23125
Surr: Dibromofluoromethane	86.4	70-130	%REC	50	12/12/2014 5:10:59 PM	/ R23125
Surr: Toluene-d8	106	70-130	%REC	50	12/12/2014 5:10:59 PM	/ R23125

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1412522**

Hall Environmental Analysis Laboratory, Inc. Date Reported: 12/18/2014

CLIENT: Terracon Client Sample ID: MW-2

Project: Fairview Station Collection Date: 12/10/2014 1:00:00 PM Matrix: AQUEOUS Lab ID: 1412522-008 Received Date: 12/10/2014 4:09:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB				Analys	t: LRW
1,2-Dibromoethane	0.20	0.010	μg/L	1 12/11/2014 3:33:46 PM	1 16778
EPA METHOD 8260: VOLATILES SH			Analys	t: cadg	
Benzene	24000	500	μg/L	500 12/12/2014 5:37:42 PM	1 R23125
Toluene	23000	500	μg/L	500 12/12/2014 5:37:42 PM	1 R23125
Ethylbenzene	2600	500	μg/L	500 12/12/2014 5:37:42 PM	1 R23125
Methyl tert-butyl ether (MTBE)	27000	500	μg/L	500 12/12/2014 5:37:42 PM	1 R23125
1,2-Dichloroethane (EDC)	ND	500	μg/L	500 12/12/2014 5:37:42 PM	1 R23125
Naphthalene	ND	1000	μg/L	500 12/12/2014 5:37:42 PM	1 R23125
1-Methylnaphthalene	ND	2000	μg/L	500 12/12/2014 5:37:42 PM	1 R23125
2-Methylnaphthalene	ND	2000	μg/L	500 12/12/2014 5:37:42 PM	1 R23125
Xylenes, Total	12000	750	μg/L	500 12/12/2014 5:37:42 PM	1 R23125
Surr: 1,2-Dichloroethane-d4	96.8	70-130	%REC	500 12/12/2014 5:37:42 PM	1 R23125
Surr: 4-Bromofluorobenzene	104	70-130	%REC	500 12/12/2014 5:37:42 PM	1 R23125
Surr: Dibromofluoromethane	93.9	70-130	%REC	500 12/12/2014 5:37:42 PM	1 R23125
Surr: Toluene-d8	104	70-130	%REC	500 12/12/2014 5:37:42 PM	1 R23125

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND
- Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1412522**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/18/2014

CLIENT: Terracon Client Sample ID: MW-6

 Project:
 Fairview Station
 Collection Date: 12/10/2014 1:35:00 PM

 Lab ID:
 1412522-009
 Matrix: AQUEOUS
 Received Date: 12/10/2014 4:09:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB				Analys	t: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1 12/11/2014 3:49:13 PM	1 16778
EPA METHOD 8260: VOLATILES SH	ORT LIST			Analys	t: cadg
Benzene	5500	500	μg/L	500 12/12/2014 6:04:29 PM	M R23125
Toluene	29000	500	μg/L	500 12/12/2014 6:04:29 PM	R23125
Ethylbenzene	5100	500	μg/L	500 12/12/2014 6:04:29 PM	R23125
Methyl tert-butyl ether (MTBE)	ND	500	μg/L	500 12/12/2014 6:04:29 PM	R23125
1,2-Dichloroethane (EDC)	ND	500	μg/L	500 12/12/2014 6:04:29 PM	1 R23125
Naphthalene	1100	1000	μg/L	500 12/12/2014 6:04:29 PM	R23125
1-Methylnaphthalene	ND	2000	μg/L	500 12/12/2014 6:04:29 PM	R23125
2-Methylnaphthalene	ND	2000	μg/L	500 12/12/2014 6:04:29 PM	R23125
Xylenes, Total	28000	750	μg/L	500 12/12/2014 6:04:29 PM	R23125
Surr: 1,2-Dichloroethane-d4	102	70-130	%REC	500 12/12/2014 6:04:29 PM	R23125
Surr: 4-Bromofluorobenzene	89.9	70-130	%REC	500 12/12/2014 6:04:29 PM	R23125
Surr: Dibromofluoromethane	86.6	70-130	%REC	500 12/12/2014 6:04:29 PM	R23125
Surr: Toluene-d8	104	70-130	%REC	500 12/12/2014 6:04:29 PM	1 R23125

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Lab Order **1412522**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/18/2014

CLIENT: Terracon Client Sample ID: Trip Blank

Project: Fairview Station Collection Date:

Lab ID: 1412522-010 **Matrix:** TRIP BLANK **Received Date:** 12/10/2014 4:09:00 PM

Analyses	Result	RL Qu	al Units	DF Date A	nalyzed	Batch
EPA METHOD 8011/504.1: EDB					Analyst	: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1 12/12/2	2014 8:18:22 AM	16778
EPA METHOD 8260: VOLATILES SHO	ORT LIST				Analyst	cadg
Benzene	ND	1.0	μg/L	1 12/12/2	2014 1:10:14 PM	R23125
Toluene	ND	1.0	μg/L	1 12/12/2	2014 1:10:14 PM	R23125
Ethylbenzene	ND	1.0	μg/L	1 12/12/2	2014 1:10:14 PM	R23125
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1 12/12/2	2014 1:10:14 PM	R23125
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1 12/12/2	2014 1:10:14 PM	R23125
Naphthalene	ND	2.0	μg/L	1 12/12/2	2014 1:10:14 PM	R23125
1-Methylnaphthalene	ND	4.0	μg/L	1 12/12/2	2014 1:10:14 PM	R23125
2-Methylnaphthalene	ND	4.0	μg/L	1 12/12/2	2014 1:10:14 PM	R23125
Xylenes, Total	ND	1.5	μg/L	1 12/12/2	2014 1:10:14 PM	R23125
Surr: 1,2-Dichloroethane-d4	97.3	70-130	%REC	1 12/12/2	2014 1:10:14 PM	R23125
Surr: 4-Bromofluorobenzene	108	70-130	%REC	1 12/12/2	2014 1:10:14 PM	R23125
Surr: Dibromofluoromethane	86.2	70-130	%REC	1 12/12/2	2014 1:10:14 PM	R23125
Surr: Toluene-d8	106	70-130	%REC	1 12/12/2	2014 1:10:14 PM	R23125

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 10 of 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1412522**

Date Reported: 12/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Terracon Client Sample ID: MW-14

 Project:
 Fairview Station
 Collection Date: 12/10/2014 11:00:00 AM

 Lab ID:
 1412522-011
 Matrix: AQUEOUS
 Received Date: 12/10/2014 4:09:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB				Analyst:	LRW
1,2-Dibromoethane	15	1.0	μg/L	100 12/16/2014 9:25:01 AM	16829
EPA METHOD 8260: VOLATILES SH			Analyst:	cadg	
Benzene	780	100	μg/L	100 12/17/2014 12:03:26 PM	R23204
Toluene	1700	100	μg/L	100 12/17/2014 12:03:26 PM	R23204
Ethylbenzene	290	100	μg/L	100 12/17/2014 12:03:26 PM	R23204
Methyl tert-butyl ether (MTBE)	ND	100	μg/L	100 12/17/2014 12:03:26 PM	R23204
1,2-Dichloroethane (EDC)	170	100	μg/L	100 12/17/2014 12:03:26 PM	R23204
Naphthalene	200	200	μg/L	100 12/17/2014 12:03:26 PM	R23204
1-Methylnaphthalene	ND	400	μg/L	100 12/17/2014 12:03:26 PM	R23204
2-Methylnaphthalene	ND	400	μg/L	100 12/17/2014 12:03:26 PM	R23204
Xylenes, Total	1700	150	μg/L	100 12/17/2014 12:03:26 PM	R23204
Surr: 1,2-Dichloroethane-d4	97.1	70-130	%REC	100 12/17/2014 12:03:26 PM	R23204
Surr: 4-Bromofluorobenzene	113	70-130	%REC	100 12/17/2014 12:03:26 PM	R23204
Surr: Dibromofluoromethane	85.3	70-130	%REC	100 12/17/2014 12:03:26 PM	R23204
Surr: Toluene-d8	101	70-130	%REC	100 12/17/2014 12:03:26 PM	R23204

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit Po
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412522

18-Dec-14

Client: Terracon
Project: Fairview Station

Sample ID MB-16778 SampType: MBLK TestCode: EPA Method 8011/504.1: EDB

Client ID: PBW Batch ID: 16778 RunNo: 23074

Prep Date: 12/11/2014 Analysis Date: 12/11/2014 SeqNo: 681851 Units: µg/L

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

1,2-Dibromoethane ND 0.010

Sample ID LCS-16778 SampType: LCS TestCode: EPA Method 8011/504.1: EDB

Client ID: LCSW Batch ID: 16778 RunNo: 23074

Prep Date: 12/11/2014 Analysis Date: 12/11/2014 SeqNo: 681852 Units: μg/L

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

1,2-Dibromoethane 0.10 0.010 0.1000 0 103 70 130

Sample ID MB-16829 SampType: MBLK TestCode: EPA Method 8011/504.1: EDB

Client ID: PBW Batch ID: 16829 RunNo: 23147

Prep Date: 12/15/2014 Analysis Date: 12/15/2014 SeqNo: 683991 Units: μg/L

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

1,2-Dibromoethane ND 0.010

Sample ID LCS-16829 SampType: LCS TestCode: EPA Method 8011/504.1: EDB

Client ID: LCSW Batch ID: 16829 RunNo: 23147

Prep Date: 12/15/2014 Analysis Date: 12/15/2014 SeqNo: 683992 Units: μg/L

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

1,2-Dibromoethane 0.099 0.010 0.1000 0 99.0 70 130

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1412522

18-Dec-14

Client: Terracon
Project: Fairview Station

Sample ID 5mL rb	SampT	ype: ME	3LK	Test	tCode: El	PA Method	8260: Volatile	s Short L	.ist	
Client ID: PBW	Batch	n ID: R2	3125	R	RunNo: 2	3125				
Prep Date:	Analysis D	ate: 12	2/12/2014	S	SeqNo: 68	83050	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.2	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	8.5		10.00		84.9	70	130			
Surr: Toluene-d8	9.8		10.00		98.4	70	130			

Sample ID 100ng Ics	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260: Volatile	es Short L	ist	
Client ID: LCSW	Batch	1D: R2	3125	F	RunNo: 2	3125				
Prep Date:	Analysis D	ate: 12	2/12/2014	S	SeqNo: 6	83051	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Toluene	22	1.0	20.00	0	111	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.2	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.5	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID 1412522-001a ms	SampT	Гуре: М	3	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: MW-5	Batcl	h ID: R2	3125	F	RunNo: 2	3125				
Prep Date:	Analysis D)ate: 12	2/12/2014	S	SeqNo: 6	83057	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	13000	100	2000	10790	109	70	130			Е
Toluene	3000	100	2000	938.2	102	70	130			
Surr: 1,2-Dichloroethane-d4	990		1000		98.7	70	130			
Surr: 4-Bromofluorobenzene	1100		1000		107	70	130			
Surr: Dibromofluoromethane	850		1000		84.8	70	130			
Surr: Toluene-d8	1000		1000		102	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1412522

18-Dec-14

Client: Terracon
Project: Fairview Station

Sample ID 1412522-001a m	sd SampT	ype: MS	5	Tes	tCode: El	PA Method	8260: Volatile	es Short L	_ist	
Client ID: MW-5	Batch	1D: R2	3125	F	RunNo: 2	3125				
Prep Date:	Analysis D	ate: 12	2/12/2014	9	SeqNo: 6	83058	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	12000	100	2000	10790	75.8	70	130			Е
Toluene	2900	100	2000	938.2	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	950		1000		94.9	70	130			
Surr: 4-Bromofluorobenzene	1000		1000		102	70	130			
Surr: Dibromofluoromethane	820		1000		82.4	70	130			
Surr: Toluene-d8	1000		1000		100	70	130			
0 1 10 7 1				_						

Sample ID 5mL rb	SampT	ype: Mi	BLK	Tes	tCode: E	PA Method	8260: Volatile	es Short L	₋ist	
Client ID: PBW	Batch	n ID: R2	23141	F	RunNo: 2	3141				
Prep Date:	Analysis D	ate: 12	2/15/2014	S	SeqNo: 6	83842	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	8.3		10.00		82.8	70	130			
Surr: Toluene-d8	11		10.00		108	70	130			

Sample ID 100ng lcs	SampT	ype: LC	S	Tes	tCode: E	PA Method	8260: Volatil	es Short L	_ist	
Client ID: LCSW	Batch	n ID: R2	3141	F	RunNo: 2	3141				
Prep Date:	Analysis D	ate: 12	2/15/2014	S	SeqNo: 6	83843	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.7	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	8.8		10.00		88.4	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID 5mL rb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260: Volatile	es Short L	ist	
Client ID: PBW	Batch	n ID: R2	3204	F	RunNo: 2	3204				
Prep Date:	Analysis D	oate: 12	2/17/2014	5	SeqNo: 6	85376	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
Naphthalene	ND	2.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Reporting Detection Limit

P Sample pH greater than 2.

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1412522

18-Dec-14

Client: Terracon
Project: Fairview Station

Sample ID 5mL rb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260: Volatile	es Short L	_ist	
Client ID: PBW	Batch	n ID: R2	3204	F	RunNo: 2	3204				
Prep Date:	Analysis D	ate: 12	2/17/2014	9	SeqNo: 68	85376	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130			
Surr: Dibromofluoromethane	9.3		10.00		93.0	70	130			
Surr: Toluene-d8	11		10.00		111	70	130			

Sample ID 100ng Ics	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: LCSW	Batch	1D: R2	3204	F	RunNo: 2	3204				
Prep Date:	Analysis D	ate: 12	2/17/2014	S	SeqNo: 6	85378	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Toluene	22	1.0	20.00	0	109	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.6	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		111	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.1	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Albuquerque, NM 87105

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name: TER-Alb	Work Order Number:	1412522			RcptNo:	1
Received by/date:	12/10/14			~		
Logged By: Celina Sessa	12/10/2014 4:09:00 PM		Celia	e S2	na	
Completed By: Celina Sessa	12/10/2014 4:23:08 PM		Celisa Celisa	ر کے	m	
Reviewed By: 12/////4						
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				
<u>Log In</u>						
4. Was an attempt made to cool the samples?	,	Yes 🗹	No		NA \square	
5. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No		NA \square	
6. Sample(s) in proper container(s)?		Yes 🗹	No			
7. Sufficient sample volume for indicated test(s	s)?	Yes 🗸	No			
8, Are samples (except VOA and ONG) proper		Yes 🗸	No			
9. Was preservative added to bottles?		Yes 🗌	No	V	NA \square	
10.VOA vials have zero headspace?		Yes 🗹	No		No VOA Vials	
11. Were any sample containers received broke	en?	Yes \square	No			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					# of preserved bottles checked	
12.Does paperwork match bottle labels?		Yes 🗸	No		for pH:	or >12 unless noted)
(Note discrepancies on chain of custody)		Yes 🗹	No		Adjusted?	i > 12 umess noteu)
13. Are matrices correctly identified on Chain of	Custody?	res ⊻ Yes ✓			-	
14. Is it clear what analyses were requested?15. Were all holding times able to be met?		Yes 🗹	No		Checked by:	
(If no, notify customer for authorization.)		100 =		Ĺ		-
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:						
	Seal Intact Seal No S	Seal Date	Signed	Ву		

							Q I	H		S		-
Client: TERRACON		X Standard	□ Rush			U		1	(ANAL CINVIRONIMENTAL
		Project Name:					Z	173	ומן זא	4	ANALTSIS LABORATORY	IOR
Mailing Address: 405 +	+ KACKES (2) 1			0	•	:	www.	www.hallenvironmental.com	onmen	tal.co	E	
ALBUD. N	N.M. 87109	Project #:	1	TARK!	2 F	4901 Hawkins NE -	KINS NE	- Albu	querqu	e, NN	Albuquerque, NM 87109	
Phone #: (505) 44	y 42	66124039	6601			300	10-01	Anal	vsis Red	Request	101	
email or Fax#:		Project Manager:	er:		_	(0						
QA/QC Package:		9				MR						
Standard	□ Level 4 (Full Validation)	MARK	The state of the s	9		1/0	SVV					
Accreditation		Sampler: 1x	Solde	47			()					
In Other		On Ice: 7	Yes	ON D			·'t/				()	
EDD (Type)		Sample Temperature:	erature:	2,400.		_	09 F	SJE			AO,	
		Container	Programme				etpoq	steM 8			∧-ıwə	
Manna	Sample Request ID	44	Type	HEAL NO.	+ X3TEX +	M) Hd.	M) 80:	3 ARO	anoin. 94 180) 8092	S) 072	
1 1013 AB	MW-5	164-41	Hegel 2	189			×	Н			'Ω	
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0501	MW-CT			2003					1			
-EII	MW-7			too-								
1310	WW-10			-005								
000	M10-9			900-								_
140, 1321	161-01W			100								
1380 M	MW-3			20%								
10 4 28 A	M.W6			-009			_					
2		>	>									
	Do Blunk			-010			>			>		
Date: Time: Per	MW-14 # 2	STORY CHAPLO	ED.	110-			8			>		F
0	Jung J	Celuma Columa	Sylven	Date Time 12/10/14 1609	Remarks:	De	San	plad	hem Mee-3	M	4	
nine: Reinquished by	0	Received by:		Date Time								
			7217 HOS				V	n	011	1	1	