

July 1, 2024

ENTERPRISE PRODUCTS PARTNERS L.P. ENTERPRISE PRODUCTS GP, LLC (General Partner)

Submitted online via OCD E-Permitting: https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/default.aspx

Mr. Nelson Velez New Mexico Energy, Minerals & Natural Resources Department – Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

2023 Groundwater Monitor	<i>ing Report</i> (Ensolum, April 11, 2024)				
2022 Groundwater Monitor	ing Report (Ensolum, March 22, 2023)				
2021 Groundwater Monitor	ing Report (Ensolum, March 29, 2022)				
Enterprise Field Services, LL	C				
Lateral K-51 Pipeline Release (4/13/2010)					
Rio Arriba Co., NM	[S34 and 35, T26N R6W (36.4465° N, 107.4461° W)]				
OCD RP: 3R-446; Stage 1 A	P-130; Incident No. nAUTOFAB00318				
	2022 Groundwater Monitor 2021 Groundwater Monitor Enterprise Field Services, LL Lateral K-51 Pipeline Release Rio Arriba Co., NM				

Dear Mr. Velez:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, is pleased to submit to New Mexico Oil Conservation Department (OCD) one electronic copy (online via OCD E-Permitting) of the above-referenced documents (Submittal1, Submittal2, and Submittal3, collectively "Submittals") prepared by Ensolum, LLC (Ensolum). The Submittals are associated with the Enterprise Lateral K-51 release of natural gas condensate liquids that occurred on April 13, 2010 from a natural gas gathering pipeline, located in Rio Arriba County, New Mexico (the "Site"). Submittal1 summarizes on-site activities that occurred between January 1, 2023 and December 31, 2023 ("reporting period" for Submittal2, and Submittal3 summarizes on-site activities conducted between January 1, 2022 and December 31, 2022 ("reporting period" for Submittal2), and Submittal3 summarizes on-site activities conducted between January 1, 2021 and December 31, 2021 ("reporting period" for Submittal3). During each reporting period, on-going groundwater monitoring and sampling (GWM&S) activities were continued to evaluate the magnitude and stability of the dissolved-phase hydrocarbon (DPH) plume in groundwater.

Data presented in the attached Submittals indicate that only the benzene concentrations in monitoring well MW-19 remain in excess of applicable New Mexico Water Quality Control Commission (NMWQCC) Groundwater Quality standards (GQS) and constituents of concern (COC) concentrations are generally stable and/or declining at the Site. Phaseseparated hydrocarbon (PSH) has not been observed at the Site, with the exception of two anomalous events in 2012 (MW-19), which were not visually confirmed. The DPH plume is not currently delineated to the southwest of MW-19 due to an obstruction (silted in or collapsed) of MW-18; however, historical COC concentrations were all below laboratory detection limits for MW-18. Additionally, in comparing current COC data to historical data, the COC exceedances identified at MW-19 appear to be associated with another historical release source. COCs in the original release area have been below laboratory detection limits and/or applicable NMWQCC GQSs since November 2016, or earlier.

Based on the data contained within the attached Submittals, Enterprise plans to: 1) continue conducting semi-annual GWM&S events with annual sampling of monitoring wells MW-3 and MW-11 through MW-13 (as per OCD approval email dated June 8, 2020); 2) install a shallow recovery well up-gradient of monitoring well MW-19 to facilitate enhanced fluid recovery; 3) repair or replace monitoring well MW-18 as described in the *Stage 1 Abatement Plan* (Ensolum, revised May 22, 2019); 4) potentially conduct additional site-specific aquifer characterization; and, 5) prepare a *Stage 2 Abatement Plan*, *if required*, after concurrence that the *Stage 1 Abatement Plan* is deemed administratively complete.

Enterprise appreciates the OCD's continued assistance and guidance in bringing closure to this Site. Should you have any questions, comments, or concerns, or require additional information, please contact Scott Drewry via email (<u>sdrewry@eprod.com</u>) or phone (713-381-5696), or our project consultant Kyle Summers (<u>ksummers@ensolum.com</u>) with Ensolum.

Sincerely,

Jon E. Fields Director, Environmental

cc: BLM, Farmington, NM – Mr. J. Nolan Craun <6251 College Blvd., Suite A, Farmington, NM 87402> Landowner – Mr. Russell Luna < PO Box 753, Bloomfield, NM 87413-0753>

ec: Ensolum, Houston, TX – Mr. Kyle Summers < <u>ksummers@ensolum.com</u> >

P.O. Box 4324 Houston, Texas 77210-4324 713.381.6500 1100 Louisiana Street Houston, Texas 77002-5227 www.epplp.com

2021 GROUNDWATER MONITORING REPORT

Property:

Lateral K-51 Pipeline Release (2010) Unit Letter H of S34 and Unit Letter E of S35, T26N R6W Rio Arriba County, New Mexico

New Mexico EMNRD OCD RP No. 3RP-446 Abatement Plan No. 130 Incident ID No. nAUTOfAB000318

> March 29, 2022 Ensolum Project No. 05A1226010

> > Prepared for:

Enterprise Field Services, LLC P.O. Box 4324 Houston, Texas 77210-4324 Attn: Mr. Gregory E. Miller, PG

Prepared by:

Landon Daniell Staff Geologist

umm

Kyle Summers Senior Project Manager

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 606 South Rio Grande, Suite A | Aztec, NM 87410 | ensolum.com

ENSOLUM

2021 GROUNDWATER MONITORING REPORT EXECUTIVE SUMMARY

This report documents the 2021 groundwater monitoring activities conducted at the Lateral K-51 Pipeline Release (2010) site, referred to hereinafter as the "Site". The Site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in Sections 34 and 35, Township 26 North, Range 6 West, in Rio Arriba County, New Mexico.

On April 13, 2010, a release of natural gas condensate occurred from the Lateral K-51 pipeline. The initial site assessment identified concentrations of constituents of concern (COCs) in soil and groundwater above the applicable New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) closure criteria and the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs). Delineation and initial excavation activities conducted between June 2010 and March 2012 identified additional concentrations of COCs above the applicable New Mexico EMNRD OCD closure criteria for soils and above the New Mexico WQCC GQSs for groundwater. During 2011, in-situ chemical oxidation (ISCO) was performed in the immediate area of the release.

Quarterly and semi-annual groundwater monitoring was conducted from 2012 through 2014, and 2015 through 2020, respectively. Groundwater samples collected during these sampling events exhibited concentrations of COCs above the WQCC standards.

The primary objective of the 2021 groundwater monitoring was to further evaluate the concentrations of COCs in groundwater and to monitor COC concentrations over time at the Site.

Findings based on these activities are as follows:

- The groundwater flow direction at the Site is generally towards the west-northwest, with an approximate average gradient of 0.008 feet per foot (ft/ft) across the Site.
- Benzene was reported at concentrations exceeding the New Mexico WQCC GQS of 10 micrograms per liter (µg/L) in groundwater samples collected from monitoring well MW-19 during the May 2021 and November 2021 sampling events. The groundwater samples collected from the other monitoring wells sampled in 2021 do not exhibit COC concentrations above the applicable WQCC GQSs (see footnote in report).
- Monitoring well MW-19 has exhibited relatively stable benzene concentrations since 2012.

Ensolum offers the following recommendations:

- Report the groundwater monitoring results to the New Mexico EMNRD OCD.
- Continue semi-annual groundwater monitoring at the Site to monitor COCs in groundwater, limiting the sampling frequency of monitoring wells MW-3, MW-11, MW-12, and MW-13 to annually, as approved by the New Mexico EMNRD OCD in an email dated June 8, 2020.
- Conduct aquifer testing, install a shallow recovery well upgradient of monitoring well MW-19, and repair or replace monitoring well MW-18, as described in the Stage 1 Abatement Plan and as approved by the New Mexico EMNRD OCD in an email dated June 8, 2020.



TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	GROUNDWATER MONITORING.2.1Groundwater Sampling Program2.2Groundwater Laboratory Analytical Methods.2.3Groundwater Flow Direction	2 3 3
3.0	FINDINGS	5
4.0	RECOMMENDATIONS	5
5.0	STANDARDS OF CARE, LIMITATIONS, AND RELIANCE. 5.1 Standard of Care. 5.2 Limitations. 5.3 Reliance .	5 5

LIST OF APPENDICES

Appendix A:	Figures	
••	Figure 1	Topographic Map
	Figure 2	Site Vicinity Map
	Figure 3	Site Map
	Figure 4A	Groundwater Gradient Map (May 2021)
	Figure 4B	Groundwater Gradient Map (November 2021)
	Figure 5A	Groundwater Quality Standard (GQS) Exceedance Zone Map (May 2021)
	Figure 5B	Groundwater Quality Standard (GQS) Exceedance Zone Map (November
		2021)
Appendix B:	Tables	
	Table 1	Groundwater Analytical Summary
	Table 2	Groundwater Elevations
Appendix C:	Laboratory	v Data Sheets &
	Chain of C	ustody Documentation

.

ENSOLUM

1.0 INTRODUCTION

This report documents the 2021 groundwater monitoring activities at the Lateral K-51 Pipeline Release (2010) site, referred to hereinafter as the "Site".

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral K-51 Pipeline Release (2010)
Incident ID	nAUTOfAB000318
Location:	36.4465° North, 107.4461° West Unit Letter H of Section 34 and Unit Letter E of Section 35, Township 26 North, Range 6 West Rio Arriba County, New Mexico
Property:	United States (US) Bureau of Land Management (BLM) and Private Land
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On April 13, 2010, an estimated ten barrels of natural gas condensate were released from the Enterprise Lateral K-51 pipeline. The pipeline was subsequently repaired, and remediation activities were initiated to remove hydrocarbon affected soils. Souder, Miller and Associates (SMA) collected confirmation soil samples and one groundwater sample from the final excavation. The excavation was then backfilled with unaffected soils. Confirmation soil samples collected from the excavation exhibited concentrations of constituents of concern (COCs) above the applicable EMNRD OCD closure criteria for soils. The groundwater sample exhibited concentrations of COCs above the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs) for groundwater.

During June 2010, eight soil borings (BH-1 through BH-8) were advanced by LT Environmental (LTE). Four of the soil borings were completed as groundwater monitoring wells (MW-1 through MW-4). Analytical results from soil samples collected immediately adjacent to the release and near the groundwater interface (BH-1) indicated COC concentrations above the applicable New Mexico EMNRD OCD closure criteria. Analysis of groundwater samples collected from monitoring wells MW-1 through MW-4 indicated COC concentrations above the Applicable New Mexico EMNRD OCD closure criteria.

During April 2011, nine soil borings/monitoring wells (SB-9, SB-10, MW-11 through MW-14, SB-15, MW-16, and MW-17) were advanced by Southwest Geoscience (SWG) to further evaluate the extent of dissolved phase COCs in groundwater. Additionally, 15 injection points were installed to facilitate the proposed in-situ chemical oxidation (ISCO) of the COCs utilizing a hydrogen peroxide solution. ISCO activities were performed during May 2011 (*Supplemental Site Investigation and Corrective Action Report*, SWG, October 5, 2011). Based on the distribution of COCs in groundwater, it appears that a former drip valve, tank, or pit may have also provided a historic source of petroleum hydrocarbon impact to groundwater (New Mexico EMNRD OCD reference 3RP-206, *El Paso Natural Gas, Final Pit Closure*) in the vicinity of monitoring well MW-14.

During March 2012, three additional soil borings/monitoring wells (MW-18, MW-19, and MW-20) were advanced near and downgradient of the historic release area to further evaluate the extent of COCs in groundwater (*Supplemental Site Investigation & Corrective Action Work Plan*, SWG, April 23, 2012). Soil boring/monitoring well MW-18 was advanced to the west of the presumed location of the historic release,

ENSOLUM

and soil borings/monitoring wells MW-19 and MW-20 were advanced to the north and northwest of the presumed location of the historic release.

Quarterly and semi-annual groundwater monitoring was conducted from 2012 through 2014, and 2015 through 2018, respectively. During February 2019, Enterprise assigned management of the project to Ensolum, LLC (Ensolum).

During May of 2019, Enterprise submitted a revised Stage 1 Abatement Plan for this Site to the New Mexico EMNRD OCD (*Revised Lateral K-51 Pipeline Release (2010) Stage 1 Abatement Plan*, Ensolum, May 22, 2019). The New Mexico EMNRD OCD has not approved the plan, and Enterprise has resumed semi-annual groundwater monitoring of the Site.

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites that are subject to reporting and/or corrective action. Additionally, the New Mexico EMNRD OCD utilizes the New Mexico WQCC GQS (NMAC 20.6.2 *Ground and Surface Water Protection*) to evaluate groundwater conditions.¹

The Site location is depicted on **Figure 1** of **Appendix A** which was reproduced from a portion of a United States Geological Survey (USGS) 7.5-minute series topographic map. A **Site Vicinity Map**, created from an aerial photograph, is provided as **Figure 2**, and a **Site Map**, which indicates the approximate locations of the monitoring wells and previous soil boring locations in relation to pertinent structures and general Site boundaries, is included as **Figure 3** of **Appendix A**.

1.2 Project Objective

The objective of the groundwater monitoring was to further evaluate groundwater quality at the Site and evaluate natural attenuation of COC concentrations over time.

2.0 **GROUNDWATER MONITORING**

2.1 Groundwater Sampling Program

Ensolum conducted groundwater sampling events during May 2021 and November 2021. The groundwater sampling program consisted of the collection of one groundwater sample from each of the viable monitoring wells at the Site. Monitoring well MW-18 appears to be obstructed (silted in or collapsed) and was not sampled during either sampling event. On June 8, 2020, the New Mexico EMNRD OCD approved a request to reduce the sampling frequency for monitoring wells MW-3 and MW-11 through MW-13 to annually. Therefore, only eight monitoring wells were sampled during the November 2021 sampling event.

Ensolum's groundwater sampling program consisted of the following:

- Prior to sample collection, Ensolum gauged the depth to fluids in each monitoring well using an interface probe capable of detecting non-aqueous phase liquid (NAPL).
- Each designated monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Following the completion of the micro-purge process, the groundwater sample was collected.

¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

2021 Groundwater Monitoring Report Enterprise Field Services, LLC Lateral K-51 Pipeline Release (2010) March 29, 2022

- Low-flow or low-stress sampling refers to sampling methods that are intended to minimize the stress that is imparted to the formation pore water in the vicinity of the well screen. Water level drawdown provides the best indication of the stress that is imparted by a given flow rate for a given hydrological situation. Pumping rates of 0.1 to 0.5 liters per minute (L/min) are typically maintained during the low-flow/low-stress sampling activities, using dedicated or decontaminated sampling equipment.
- During low-flow sampling, the groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are typically observed every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for at least three consecutive readings.
- Groundwater samples were collected in laboratory-supplied containers (pre-preserved with mercuric chloride (HgCl₂)), labeled, and sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The groundwater samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico under proper chainof-custody procedures.

2.2 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during the two sampling events were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing US Environmental Protection Agency (EPA) SW-846 Method #8021 or #8260.

A summary of the analytes, sample matrix, sample frequency and EPA-approved analytical methods are presented in the following table.

Analytes	Sample Matrix	No. of Samples (May/Nov)	EPA Method
BTEX	Groundwater	12/8	SW-846 8021 or 8260

The laboratory analytical results are summarized in **Table 1** in **Appendix B**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix C**.

2.3 Groundwater Flow Direction

Each monitoring well has been geospatially surveyed to determine the top-of-casing (TOC) elevation. Prior to sample collection, Ensolum gauged the depth to fluids in each monitoring well. The groundwater flow direction at the Site is generally toward the west-northwest. The calculated gradient during both monitoring events averaged approximately 0.008 feet per foot (ft/ft) across the Site.

Groundwater elevation data collected during the May 2021 and November 2021 gauging events are presented (as well as historical gauging data) in **Table 2** (**Appendix B**). Groundwater gradient maps prepared for the May 2021 and November 2021 gauging events are included as **Figure 4A** and **4B** (**Appendix A**).

ENSOLUM

2.4 Data Evaluation

Ensolum compared the BTEX laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the groundwater samples collected during the May 2021 and November 2021 groundwater sampling events to the New Mexico WQCC GQSs.¹ The results of the analyses are summarized in **Table 1** of **Appendix B**. Groundwater Quality Standard Exceedance Zone maps are provided as **Figures 5A** and **5B** of **Appendix A**.

<u>May 2021</u>

- The May 2021 analytical result for monitoring well MW-19 indicates a benzene concentration of 120 micrograms per liter (µg/L), which exceeds the WQCC GQS of 10 µg/L.¹ The analytical results for the other sampled monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 10 µg/L.¹
- The May 2021 analytical results for the sampled monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μg/L.¹
- The May 2021 analytical result for monitoring well MW-19 indicates an ethylbenzene concentration of 63 μg/L, which is below the WQCC GQS of 750 μg/L.¹ The analytical results for the other sampled monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μg/L.¹
- The May 2021 analytical results for monitoring wells MW-4 and MW-19 indicate total xylene concentrations of 2.9 μg/L and 19 μg/L, respectively, which are below the WQCC GQS of 620 μg/L.¹ The analytical results for the other sampled monitoring wells do not indicate total xylene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 μg/L.¹
- No data qualifier flags are associated with the May 2021 analytical results.

November 2021

- The November 2021 analytical result for monitoring well MW-19 indicates a benzene concentration of 160 μg/L, which exceeds the WQCC GQS of 10 μg/L.¹ The analytical results for the other sampled monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 10 μg/L.¹
- The November 2021 analytical results for the sampled monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μ g/L.¹
- The November 2021 analytical result for monitoring well MW-19 indicates an ethylbenzene concentration of 85 µg/L, which is below the WQCC GQS of 750 µg/L.¹ The analytical results for the other sampled monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 µg/L.¹
- The November 2021 analytical result for monitoring well MW-19 indicates a total xylenes concentration of 14 µg/L, which is below the WQCC GQS of 620 µg/L.¹ The analytical results for the other sampled monitoring wells do not indicate total xylene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 µg/L.¹

¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.



• No data qualifier flags are associated with the November 2021 analytical results.

3.0 FINDINGS

Based on the evaluation of the analytical results from the May 2021 and November 2021 groundwater sampling events, Ensolum presents the following findings:

- The groundwater flow direction at the Site is generally towards the west-northwest, with an approximate gradient of 0.008 ft/ft across the Site.
- Benzene was reported at concentrations exceeding the New Mexico WQCC GQS of 10 µg/L in groundwater samples collected from monitoring well MW-19 during the May 2021 and November 2021 sampling events. The groundwater samples collected from the other sampled monitoring wells in 2021 do not exhibit COC concentrations above the applicable WQCC GQSs.¹
- Monitoring well MW-19 has exhibited relatively stable benzene concentrations since 2012.

4.0 **RECOMMENDATIONS**

Based on the results of groundwater monitoring activities, Ensolum has the following recommendations:

- Report the groundwater monitoring results to the New Mexico EMNRD OCD.
- Continue semi-annual groundwater monitoring at the Site to monitor COCs in groundwater, limiting the sampling frequency of monitoring wells MW-3, MW-11, MW-12, and MW-13 to annually, as approved by the New Mexico EMNRD OCD in an email dated June 8, 2020.
- Conduct aquifer testing, install a shallow recovery well upgradient of monitoring well MW-19, and repair or replace monitoring well MW-18, as described in the Stage 1 Abatement Plan and as approved by the New Mexico EMNRD OCD in an email dated June 8, 2020.

5.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

5.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

5.2 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 and it should be

¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

E ENSOLUM

noted that this 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, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

5.3 Reliance

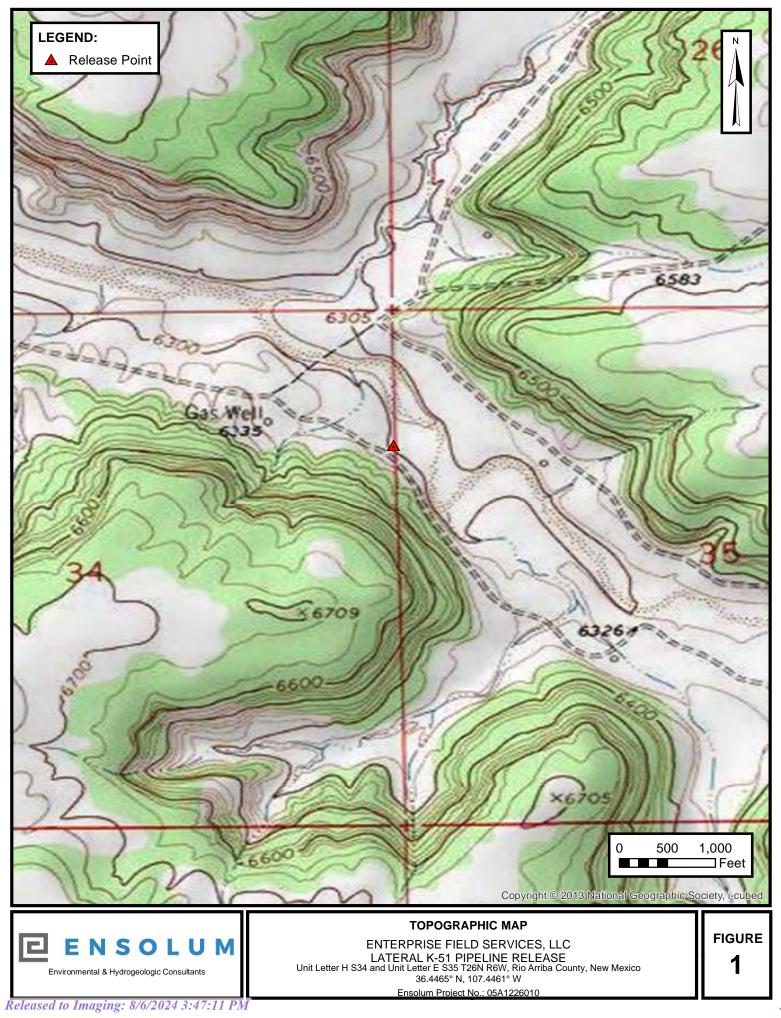
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution 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 report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

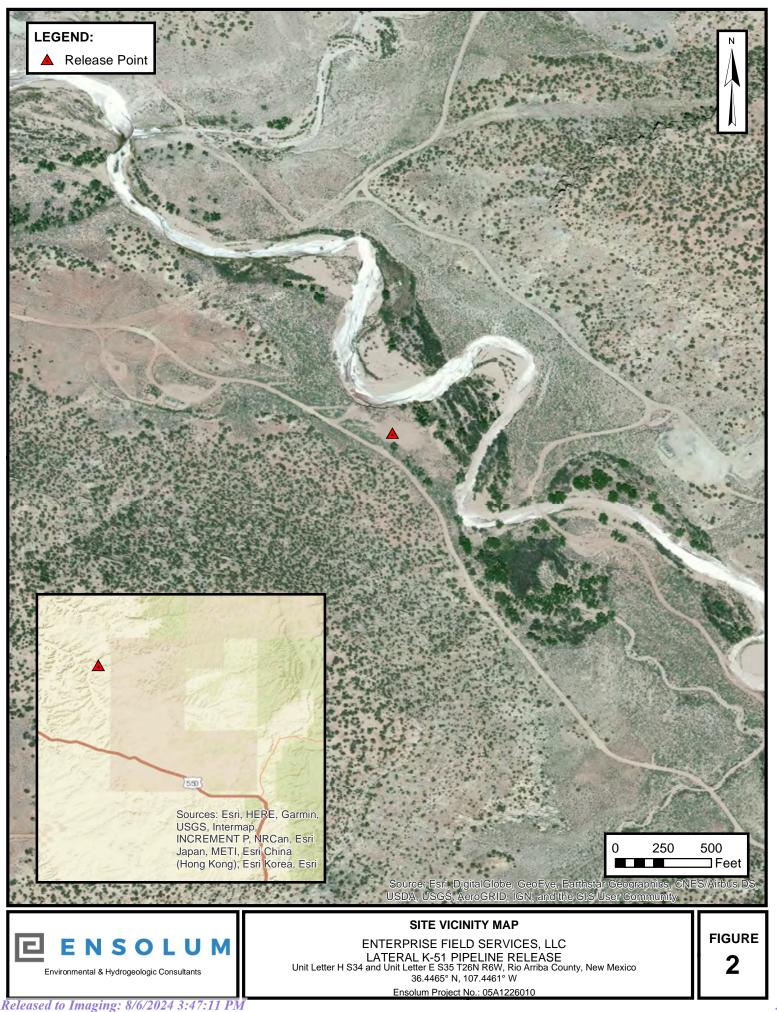


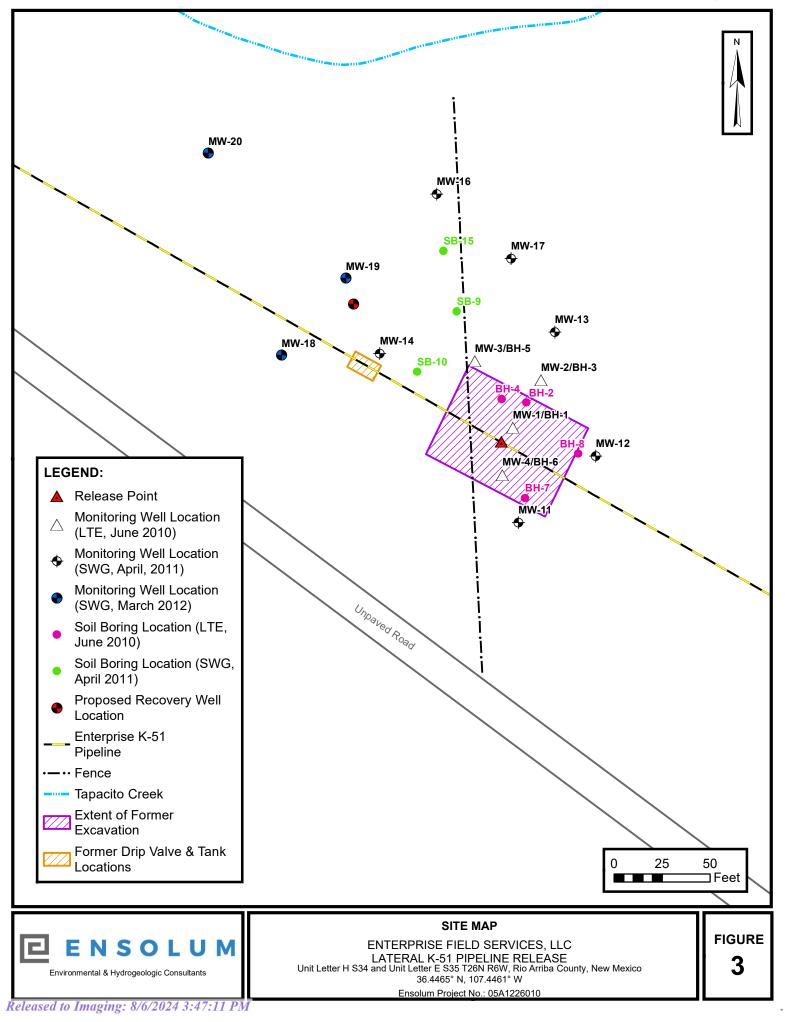
APPENDIX A

Figures

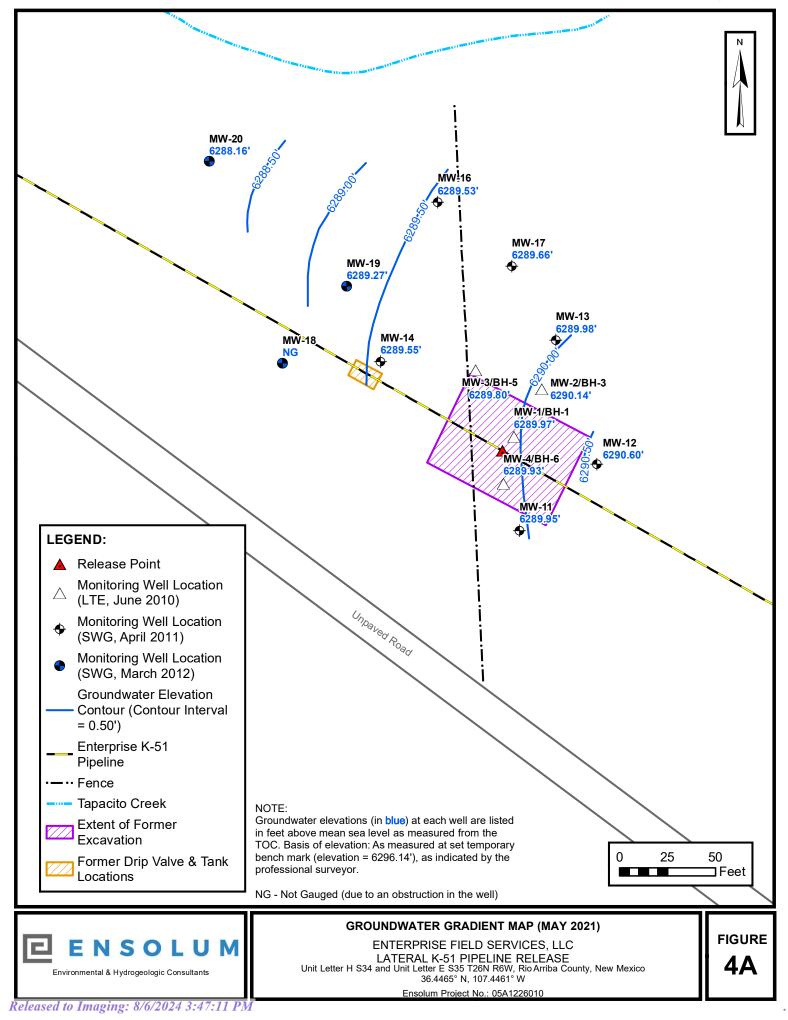
Received by OCD: 7/3/2024 12:33:21 PM



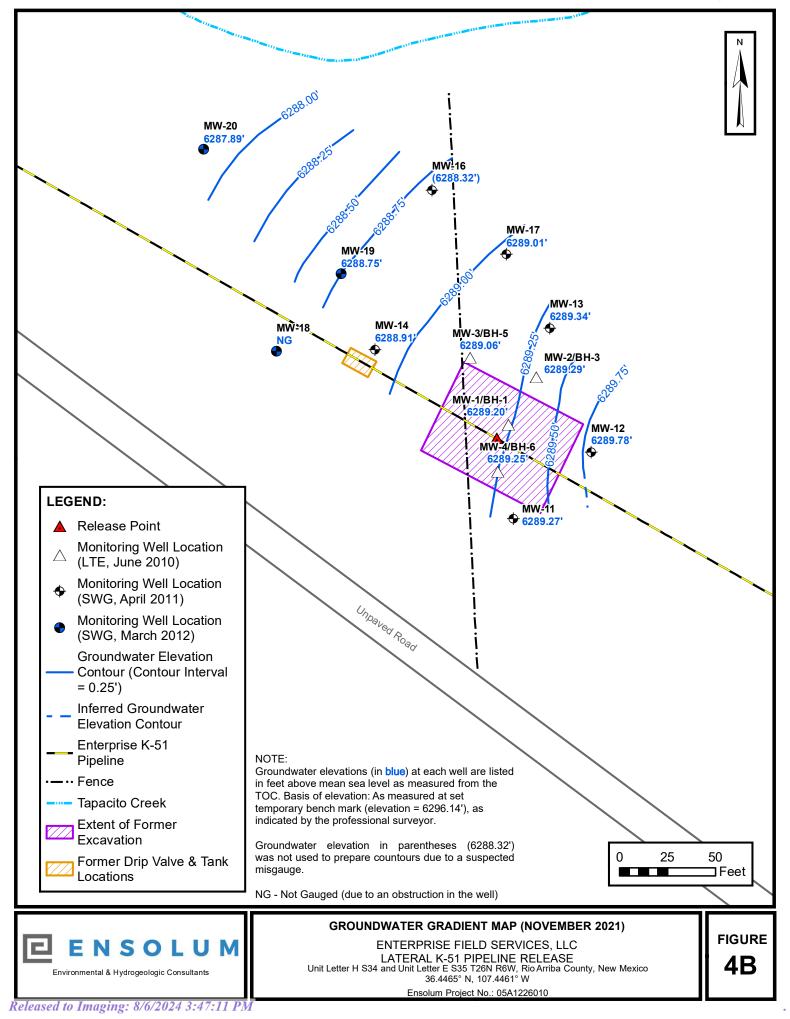




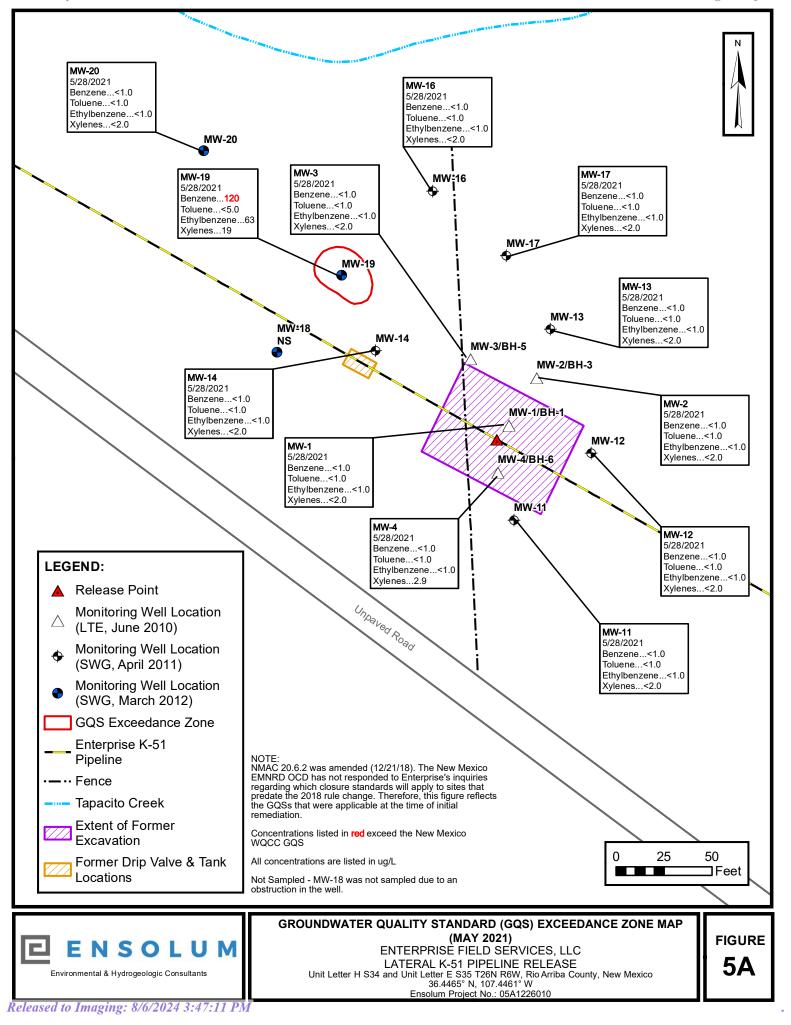
Received by OCD: 7/3/2024 12:33:21 PM



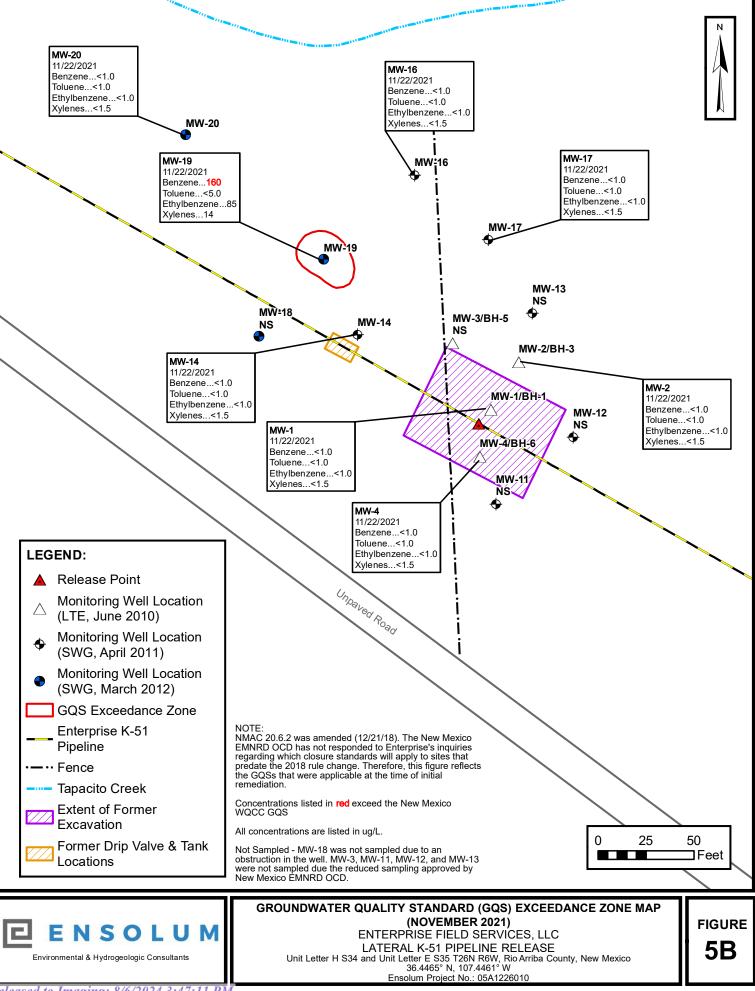
Received by OCD: 7/3/2024 12:33:21 PM



Received by OCD: 7/3/2024 12:33:21 PM



Received by OCD: 7/3/2024 12:33:21 PM



Released to Imaging: 8/6/2024 3:47:11 PM



APPENDIX B

Tables

			TABLE	1			
		Lateral K		Release (2010)			
				TICAL SUMMARY			
Sample I.D.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
		(µg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
	ty Control Commmission uality Standards	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
	,	SWA	Sample - Open	Excavation			
Excavation	4.21.10	7,000	13,000	540	5,200	NA	NA
		Monit	oring Wells Ins	talled by LTE	•		
	6.21.10	8,400	1,300	560	4,200	NA	NA
	9.24.10	2,300	28	200	520	8.4	<1.0
	4.21.11	430	<20	120	60	2.1	<1.0
	6.21.11 9.22.11	820 690	370 1,200	33 120	140 1,200	5.1 8.9	130 30
	12.13.11	260	250	54	650	3.4	30 <1.0
	3.20.12	280	230	94	550	3.5	<1.0
	6.19.12	300	<5.0	81	96	1.7	<1.0
	9.20.12*	45	3.4	15	23	0.45	<1.0
	12.17.12	34	<1.0	11	16	0.19	<1.0
	3.25.13	41	<1.0	19	32	0.27	<1.0
	6.27.13	24	<1.0	<1.0	36	0.22	<1.0
	10.22.13 12.16.13	<u>39</u> 10	<1.0 <1.0	24 14	<u>13</u> 11	0.23 0.18	<1.0 <1.0
MW-1	4.18.14	23	<1.0	28	86	0.18	1.1
10100-1	11.6.14	32	<1.0	27	61	NA	NA
	5.29.15	11	<1.0	21	55	NA	NA
	12.1.15	5.3	<1.0	4.0	6.2	NA	NA
	5.26.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	17	<1.0	1.6	2.4	NA	NA
	5.30.17 12.07.17	<u>4.1</u> 2.8	<1.0 <1.0	<1.0 2.0	<1.5 <1.5	NA NA	NA NA
	5.30.18	3.0	<1.0	<1.0	2.2	NA	NA
	11.02.18	1.2	<1.0	<1.0	<1.5	NA	NA
	9.25.19	1.8	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20 11.11.20	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.5 <1.5	NA NA	NA NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	6.21.10	200	53	14	96	NA	NA
	9.24.10	2.3	<1.0	<1.0	<2.0	< 0.050	<1.0
	4.21.11	3.3	<1.0	<1.0	<2.0	0.065	<1.0
	6.21.11 9.22.11	<u>2.2</u> <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<0.050 <0.050	<1.0 <1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13 6.27.13	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<0.050 <0.050	<1.0 <1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
MW-2	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
10100-2	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	12.1.15 5.25.16	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	NA NA	NA NA
	5.25.16 11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20 11.11.20	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.5 <1.5	NA NA	NA NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA

			TABLE	1			
		Lateral K		Release (2010)			
		GROUND	NATER ANALY	TICAL SUMMARY			
Sample I.D.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
		(μg/L)	(μg/L)	(µg/L)	(µg/L)	GRO (mg/L)	DRO (mg/L)
	lity Control Commmission Quality Standards	10 ^A	750 ⁴	750 ^A	620 ^A	NE	NE
	6.21.10	640	57	72	1,000	NA 0.49	NA 11.0
	9.24.10 4.21.11	150 52	<1.0 <1.0	16 17	28 10	0.48 0.25	<1.0 <1.0
	6.21.11	62	14	13	160	0.67	<1.0
	9.22.11 12.13.11	3 <1.0	<1.0 <1.0	8.7 <1.0	<2.0 <2.0	0.066	<1.0 <1.0
	3.20.12	1.3	<1.0	1.9	<2.0	<0.050	<1.0
	6.19.12 9.19.12	3.1 <1.0	<1.0 <1.0	1.4 <1.0	<2.0 <2.0	<0.050 <0.050	<1.0 <1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	<u>6.27.13</u> 10.21.13	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<0.050 <0.050	<1.0 <1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-3	<u>4.17.14</u> 11.6.14	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<0.050 NA	<1.0 NA
	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.16 11.08.16	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	NA NA	NA NA
	5.30.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.07.17 5.30.18	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.5 <1.5	NA NA	NA NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20 5.11.20	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <1.5	NA NA	NA NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21 11.22.21 [₽]	<1.0 NS	<1.0 NS	<1.0 NS	<2.0 NS	NA NS	NA NS
	6.21.10	3,600	10,000	600	6,600	NA	NA
	9.24.10	870	870	260	1,600	12	1
	4.21.11 6.21.11	670 17	<20 22	520 36	790 77	6.3 0.64	<1.0 1.1
	9.22.11	62	140	220	820	3.8	1.2
	12.13.11 3.20.12	84 36	<20 <20	430 1,100	490 1,400	2.6 6.5	<1.0 <1.0
	6.19.12	37	<5.0	250	350	2.2	<1.0
	9.19.12	9.4	1.4	74	97	0.84	<1.0
	12.17.12 3.25.13	<1.0 3.2	<1.0 <1.0	6.2 51	9.7 55	0.12	<1.0 <1.0
	6.27.13	3.9	<1.0	61	60	1.3	<1.0
	10.22.13 12.13.13	<1.0 <1.0	<1.0 <1.0	12 16	3.8 6.2	0.13 0.4	<1.0 <1.0
MW-4	4.17.14	<1.0	<1.0	76	14	0.78	<1.0
1010 0+	11.6.14	<1.0	<1.0	11	2.9	NA	NA
	5.29.15 12.1.15	<1.0 <1.0	<1.0 <1.0	24 2.5	6.1 2.1	NA NA	NA NA
	5.25.16	<1.0	<1.0	7.4	<2.0	NA	NA
	11.08.16 5.26.17	2.4 <1.0	<1.0 <1.0	4.8 3.9	2.1 <1.5	NA NA	NA NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	<u>11.01.18</u> 9.20.19	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.5 <2.0	NA NA	NA NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20 11.11.20	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.5 <1.5	NA NA	NA NA
	5.28.21	<1.0	<1.0	<1.0	2.9	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA

Page 2	2 oj	f 24	0
--------	------	------	---

			TABLE	1			
		I stand I					
				Release (2010)			
		GROUND	WATER ANALY	TICAL SUMMARY			
Sample I.D.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
		(µg/L)	(μg/L)	(μg/L)	(µg/L)	GRO	DRO
						(mg/L)	(mg/L)
	w Mexico Water Quality Control Commmission Groundwater Quality Standards		750 ^A	750 ⁴	620 ^A	NE	NE
	Monitoring	Wells Installed	by Apex TITAN	(formerly Southwe	est Geoscience		
	4.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	12.13.11 3.20.12	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<0.050 <0.050	<1.0 <1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-11	11.6.14 5.29.15	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	NA NA	NA NA
	5.29.15 11.30.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20 11.11.20	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.5 <1.5	NA NA	NA NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21 ^B	NS	NS	NS	NS	NS	NS
	4.21.11	1.9	<1.0	<1.0	<2.0	< 0.050	<1.0
	6.21.11	4.6	<1.0	<1.0	<2.0	0.063	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	1.7	<1.0	<1.0	<2.0	< 0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	<u>12.17.12</u> 3.25.13	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<0.050 <0.050	<1.0 <1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-12	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
10100-12	5.29.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.30.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17 12.06.17	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.5 <1.5	NA NA	NA NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	NS	NS	NS	NS	NS	NS

			TABLE	1			
		L atoval V					
				Release (2010)			
				TICAL SUMMARY			
Sample I.D.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	TPH
		(μg/L)	(µg/L)	(µg/L)	(μg/L)	GRO (mg/L)	DRO (mg/L)
	lity Control Commmission Quality Standards	10 ^A	750 ^A	750 ⁴	620 ^A	NE	NE
	4.21.11	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	3.20.12 6.19.12	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<0.050 <0.050	<1.0 <1.0
	9.20.12	NS	NS	NS	NS	<0.050 NS	NS
	12.17.12	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	12.12.13 4.17.14	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<0.050 <0.050	<1.0 <1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050 NA	<1.0 NA
MW-13	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.30.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18 11.01.18	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.5 <1.5	NA NA	NA NA
	9.25.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21 11.22.21	<1.0	<1.0	<1.0	<2.0	NA	NA NS
	4.21.11	NS 2,800	NS <100	NS 280	NS 720	NS 8.7	<1.0
	6.21.11	470	<100	37	210	1.9	<1.0
	9.22.11	540	<10	100	36	1.7	<1.0
	12.13.11	220	<10	110	<20	1.0	<1.0
	3.20.12	660	<5.0	240	15	2.9	<1.0
	6.19.12	660	<5.0	300	100	3.4	<1.0
	9.20.12*	7.3	<1.0	<1.0	<2.0	0.1	<1.0
	12.17.12 3.25.13	<1.0 <1.0	<1.0 <1.0	<1.0 1.6	<2.0 <2.0	<0.050 <0.050	<1.0 <1.0
	6.27.13	34	4.4	30	130	0.56	1.4
	10.22.13	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	12.16.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.14	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
MW-14	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.28.15 11.30.15	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	NA NA	NA NA
	5.26.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.07.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19 1.31.20	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	NA NA	NA NA
	5.11.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.12.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA

			TABLE	1			
		1 - 1 1 1					
				Release (2010)			
		GROUND	WATER ANALY	TICAL SUMMARY			
Sample I.D.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
	ty Control Commmission uality Standards	10 ^A	750 ^A	750 ⁴	620 ^A	NE	NE
	4.21.11	4.4	<2.0	<2.0	<4.0	<0.10	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	0.065	<1.0
	12.13.11 3.20.12	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	0.12 <0.050	<1.0 <1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	12.17.12	3.1	<1.0	2.1	14	0.19	<1.0
	3.25.13	<1.0	<1.0	<1.0	<1.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	12.12.13	1	<1.0	<1.0	<2.0	< 0.050	<1.0
	4.17.14	<u>1.4</u> 1.2	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<0.050 NA	<1.0 NA
MW-16	11.6.14 5.29.15	3.0	<1.0	<1.0	<2.0	NA	NA
	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	2.2	<1.0	<1.0	<2.0	NA	NA
	11.07.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.30.17	2.1	<1.0	<1.0	<1.5	NA	NA
	12.07.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.02.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.25.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.4.20 5.11.20	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <1.5	NA NA	NA NA
	11.12.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	4.21.11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	6.21.11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	12.13.11 3.20.12	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<0.050 <0.050	<1.0 <1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	12.12.13 4.17.14	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<0.050 <0.050	<1.0 <1.0
	4.17.14 11.6.14	<1.0	<1.0	<1.0	<2.0	<0.050 NA	<1.0 NA
MW-17	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.07.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.07.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18 9.25.19	<1.0 <1.0	<1.0	<1.0 <1.0	<1.5 <2.0	NA	NA NA
	9.25.19 2.4.20	<1.0	<1.0 <1.0	<1.0	<2.0	NA NA	NA NA
	5.11.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA

Page	25 o	f 240
------	------	-------

			TABLE	1			
				Release (2010)			
		GROUND	WATER ANALY	TICAL SUMMARY			
Sample I.D.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
		(µg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
New Maxies Water Qual	ity Control Commission						
	ity Control Commmission uality Standards	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
	-						
	3.20.12	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	9.20.12*	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0
	12.17.12	<2.0 NS	<2.0 NS	<2.0 NS	<4.0 NS	<0.10 NS	<1.0 NS
	3.25.13 6.27.13	NS	NS	NS	NS	NS	NS
	10.21.13	NS	NS	NS	NS	NS	NS
	12.12.13	NS	NS	NS	NS	NS	NS
	4.17.14	NS	NS	NS	NS	NS	NS
	11.6.14	NS	NS	NS	NS	NS	NS
	5.29.15	NS	NS	NS	NS	NS	NS
NAV 40	11.30.15	NS	NS	NS	NS	NS	NS
MW-18	5.25.16	NS	NS	NS	NS	NS	NS
	11.07.16	NS	NS	NS	NS	NS	NS
	5.26.17	NS	NS	NS	NS	NS	NS
	12.07.17	NS	NS	NS	NS	NS	NS
	5.30.18	NS	NS	NS	NS	NS	NS
	11.01.18	NS	NS	NS	NS	NS	NS
	9.20.19	NS	NS	NS	NS	NS	NS
	1.31.20	NS	NS	NS	NS	NS	NS
	5.8.20	NS	NS	NS	NS	NS	NS
	11.11.20	NS	NS	NS	NS	NS	NS
	5.28.21	NS	NS	NS	NS	NS	NS
	11.22.21	NS	NS	NS	NS	NS	NS
	3.20.12	250	56	310	3,900	16	5.3
	6.19.12 9.19.12	NAPL NAPL	NAPL NAPL	NAPL NAPL	NAPL NAPL	NA NA	NA NA
	12.17.12	180	<5.0	5.4	23	2.2	2.6
	3.25.13	160	<5.0	17	<10	1.5	1.4
	6.27.13	390	<1.0	79	66	2.7	5.9
	10.22.13	140	<1.0	<1.0	<2.0	0.51	2.1
	12.16.13	160	<1.0	37	12	1.4	4.2
	4.18.14	230	<1.0	41	53	2.2	10
	11.6.14	260	<1.0	75	42	NA	NA
	5.29.15	190	<1.0	7.2	81	NA	NA
MW-19	12.1.15	210	<1.0	75	23	NA	NA
10100-19	5.26.16	260	<1.0	86	340	NA	NA
	11.08.16	270	<1.0	80	190	NA	NA
	5.30.17	270	<1.0	88	640	NA	NA
	12.07.17	180	<1.0	70	150	NA	NA
	5.31.18	250	<10	83	260	NA	NA
	11.02.18	230	<5.0	62	280	NA	NA
	9.25.19	340	<5.0	88	380	NA	NA
	2.4.20	100	<5.0	51	28	NA	NA
	5.11.20	97	<5.0	54	15	NA	NA
	11.12.20	240	<2.0	80	50	NA	NA
	5.28.21 11.22.21	120 160	<5.0 <5.0	63 85	19 14	NA NA	NA NA
	11.22.21	100	~0.0	00	14	N/A	IN/A

E ENSOLUM

TABLE 1 Lateral K-51 Pipeline Release (2010) GROUNDWATER ANALYTICAL SUMMARY											
Sample I.D.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	TPH				
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO (mg/L)	DRO (mg/L)				
	lity Control Commmission Quality Standards	10 ⁴	750 ^A	750 ⁴	620 ^A	NE	NE				
	3.20.12	35	<1.0	1.1	3.3	0.14	<1.0				
	6.19.12	3.4	<1.0	<1.0	<2.0	<0.050	<1.0				
	9.20.12*	4.7	<1.0	<1.0	<2.0	<0.050	<1.0				
	12.17.12*	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0				
	3.25.13*	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0				
	6.27.13*	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0				
	10.22.13*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0				
	12.16.13*	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0				
	4.18.14*	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0				
	11.6.14*	<1.0	<1.0	<1.0	<2.0	NA	NA				
	5.29.15	<1.0	<1.0	<1.0	<2.0	NA	NA				
MW-20	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA				
10100-20	5.26.16	<1.0	<1.0	<1.0	<2.0	NA	NA				
	11.07.16	<1.0	<1.0	<1.0	<2.0	NA	NA				
	5.30.17	<1.0	<1.0	<1.0	<1.5	NA	NA				
	12.07.17	<1.0	<1.0	<1.0	<1.5	NA	NA				
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA				
	11.02.18	<1.0	<1.0	<1.0	<1.5	NA	NA				
	9.25.19	<1.0	<1.0	<1.0	<2.0	NA	NA				
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA				
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA				
	11.12.20	<1.0	<1.0	<1.0	<1.5	NA	NA				
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA				
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA				

Note: Concentrations in **bold** and yellow exceed the applicable WQCC GQS

 ^A = NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this table reflects the groundwater quality standards that were applicable at the time of initial remediation.
 ^B = This monitoring well was not sampled during this sampling event. On June 8, 2020 the New Mexico EMNRD OCD approved Enterprise's request to reduce sampling events in MW-3, MW-11, MW-12, and MW-13 to annual events.

* = Monitoring well purged/sampled utilizing disposable bailer during this event

µg/L= micrograms per liter

mg/L= milligrams per liter

NA = Not Analyzed

NS = Not Sampled

NE = Not Established

NAPL = Non-aqueous phase liquid

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

				TABLE 2				
			Lateral K-51	Pipeline Re	lease (2010)			
			GROUN	DWATER ELEV	ATIONS			
Well I.D.	Date	Depth to	Depth to Water	Product	Total Depth of	Screen Interval	TOC Elevation	Groundwater
		Product (feet BTOC)	(feet BTOC)	Thickness	Well (feet BTOC)	(feet BTOC)	(feet AMSL)	Elevation* (feet AMSL)
	4.21.11	ND	11.80	ND				6289.09
	6.21.11	ND	12.16	ND				6288.73
	9.22.11 12.13.11	ND	12.92	ND ND				6287.97 6288.44
	3.20.12	ND ND	12.45 12.13	ND ND				6288.44 6288.76
	6.19.12	ND	12.15	ND				6288.13
	9.19.12	ND	13.10	ND				6287.79
	12.17.12	ND	12.33	ND				6288.56
	3.15.13	ND	11.88	ND				6289.01
	6.27.13	ND	12.61	ND				6288.28
	10.22.13	ND	11.71	ND				6289.18
	12.12.13 4.18.14	ND ND	11.35 11.04	ND ND	4			6289.54 6289.85
	11.6.14	ND	11.56	ND				6289.33
MW-1	5.28.15	ND	10.86	ND	17.71	7.71-17.71	6300.89	6290.03
	11.30.15	ND	10.90	ND				6289.99
	5.25.16	ND	10.52	ND				6290.37
	11.07.16	ND	11.42	ND				6289.47
	5.26.17	ND	10.41	ND				6290.48
	12.06.17 5.30.18	ND ND	10.53 10.67	ND ND				6290.36 6290.22
	11.01.18	ND	11.59	ND				6289.30
	9.20.19	ND	12.08	ND				6288.81
	1.31.20	ND	11.13	ND				6289.76
	5.8.20	ND	10.81	ND	-			6290.08
	11.11.20	ND	11.55	ND				6289.34
	5.28.21	ND ND	10.92	ND ND				6289.97
	11.22.21 4.21.11	ND	11.69 10.55	ND	1			6289.20 6289.27
	6.21.11	ND	11.87	ND				6287.95
	9.22.11	ND	11.86	ND				6287.96
	12.13.11	ND	11.38	ND				6288.44
	3.20.12	ND	10.95	ND				6288.87
	6.19.12	ND	11.64	ND				6288.18
	9.19.12 12.17.12	ND ND	12.10 11.23	ND ND				6287.72 6288.59
	3.15.13	ND	10.65	ND				6289.17
	6.27.13	ND	11.44	ND	1			6288.38
	10.21.13	ND	10.44	ND	1			6289.38
	12.12.13	ND	10.09	ND				6289.73
	4.17.14	ND	9.73	ND				6290.09
MW-2	11.6.14	ND	10.33	ND	18.45	8.45-18.45	6299.82	6289.49
	5.28.15 11.30.15	ND ND	9.61 9.67	ND ND	1			6290.21 6290.15
	5.25.16	ND	9.87	ND				6290.15
	11.07.16	ND	10.24	ND	1			6289.58
	5.26.17	ND	9.23	ND]			6290.59
	12.06.17	ND	9.33	ND				6290.49
	5.30.18	ND	9.46	ND				6290.36
	11.01.18	ND	10.43	ND				6289.39
	9.20.19 1.31.20	ND ND	10.95 9.91	ND ND				6288.87 6289.91
	5.8.20	ND	9.91	ND				6289.91
	11.11.20	ND	10.35	ND	1			6289.47
	5.28.21	ND	9.68	ND	1			6290.14
	11.22.21	ND	10.53	ND				6289.29

				TABLE 2				
				Pipeline Rel				
	Data	Danáh és		DWATER ELEV		O ann an Internal	TOO Flouration	Orrendenstern
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
		110	44.00	ND				
	4.21.11 6.21.11	ND ND	11.30 11.64	ND ND				6288.92 6288.58
	9.22.11	ND	12.45	ND				6287.77
	12.13.11	ND	11.89	ND				6288.33
	3.20.12 6.19.12	ND ND	11.60 12.22	ND ND				6288.62 6288.00
	9.19.12	ND	12.53	ND				6287.69
	12.17.12	ND	11.75	ND				6288.47
	3.15.13	ND	11.37	ND				6288.85
	6.27.13 10.21.13	ND ND	12.06 11.12	ND ND				6288.16 6289.10
	12.12.13	ND	10.84	ND		8.39-18.39		6289.38
	4.17.14	ND	10.55	ND				6289.67
MW-3	11.6.14	ND	11.02	ND	18.39		6300.22	6289.20
	5.28.15 11.30.15	ND ND	10.37 10.40	ND ND				6289.85 6289.82
	5.25.16	ND	10.40	ND				6290.12
	11.07.16	ND	10.90	ND				6289.32
	5.26.17	ND	10.00	ND				6290.22
	12.06.17	ND ND	10.05 10.14	ND ND				6290.17 6290.08
	5.30.18 11.01.18	ND	11.07	ND				6289.15
	9.20.19	ND	11.53	ND				6288.69
	1.31.20	ND	10.62	ND				6289.60
	5.11.20 11.11.20	ND ND	10.31 11.03	ND ND				6289.91 6289.19
	5.28.21	ND	10.42	ND	_			6289.80
	11.22.21	ND	11.16	ND				6289.06
	4.21.11	ND	11.90	ND				6289.01
	6.21.11	ND	12.18	ND				6288.73
	9.22.11 12.13.11	ND ND	12.90 12.41	ND ND				6288.01 6288.50
	3.20.12	ND	12.41	ND				6288.46
	6.19.12	ND	12.72	ND				6288.19
	9.19.12	ND	13.09	ND				6287.82
	12.17.12 3.15.13	ND ND	12.33 11.85	ND ND				6288.58 6289.06
	6.27.13	ND	12.60	ND				6288.31
	10.22.13	ND	11.74	ND				6289.17
	12.12.13	ND	11.37	ND				6289.54
	4.17.14	ND	11.05	ND				6289.86
MW-4	11.6.14 5.28.15	ND ND	11.58 10.91	ND ND	19.47	9.47-19.47	6300.91	6289.33 6290.00
	11.30.15	ND	10.94	ND				6289.97
	5.25.16	ND	10.59	ND				6290.32
	11.07.16	ND	11.43	ND				6289.48
	5.26.17 12.06.17	ND ND	10.47 10.60	ND ND				6290.44 6290.31
	5.30.18	ND	10.69	ND				6290.22
	11.01.18	ND	11.58	ND				6289.33
	9.20.19	ND	12.04	ND				6288.87
	1.31.20	ND	11.14	ND				6289.77
	5.8.20 11.11.20	ND ND	10.83 11.54	ND ND				6290.08 6289.37
	5.28.21	ND	10.98	ND				6289.93
	11.22.21	ND	11.66	ND				6289.25

			Lateral K-51	TABLE 2 Pipeline Rel	lease (2010)			
				DWATER ELEV				
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	Total Depth of Well (feet BTOC)	Screen Interval (feet BTOC)	TOC Elevation (feet AMSL)	Groundwater Elevation* (feet AMSL)
MW-11	$\begin{array}{r} 4.21.11\\ 6.21.11\\ 9.22.11\\ 12.13.11\\ 3.20.12\\ 6.19.12\\ 9.19.12\\ 12.17.12\\ 3.15.13\\ 6.27.13\\ 10.21.13\\ 12.12.13\\ 12.12.13\\ 4.17.14\\ 11.6.14\\ 5.28.15\\ 11.30.15\\ 5.25.16\\ 11.07.16\\ 5.26.17\\ 12.06.17\\ 5.30.18\\ 11.01.18\\ 9.20.19\\ 1.31.20\\ 5.8.20\\ 11.11.20\\ 5.8.21\\ 11.22.21\\ \end{array}$	ND ND ND ND ND ND ND ND ND ND ND ND ND N	11.98 12.40 13.07 12.55 12.26 12.93 13.27 12.51 12.62 11.94 11.61 11.25 11.80 11.12 11.61 11.25 11.80 11.12 11.80 11.12 11.80 11.12 11.80 11.12 11.80 11.12 11.80 11.12 11.80 11.12 11.82 10.66 10.88 11.82 12.26 11.39 11.07 11.79 11.24 11.92	ND ND ND ND ND ND ND ND ND ND ND ND ND N	19.07	9.07-19.07	6301.19	6289.21 6288.79 6288.12 6288.64 6288.93 6288.26 6287.92 6288.68 6289.14 6289.25 6289.25 6289.58 6289.94 6289.39 6290.07 6290.01 6290.01 6290.53 6290.53 6290.53 6290.37 6289.37 6289.37 6289.37 6289.37 6289.37 6289.93 6289.40 6289.95 6289.40 6289.95 6289.27
MW-12	4.21.11 6.21.11 9.22.11 12.13.11 3.20.12 6.19.12 9.19.12 12.17.12 3.15.13 6.27.13 10.21.13 12.12.13 4.17.14 11.6.14 5.28.15 11.07.16 5.26.17 12.06.17 5.30.18 11.01.18 9.20.19 1.31.20 5.8.20 11.12.2	ND ND	8.96 9.42 10.82 10.13 9.41 10.09 11.03 10.21 9.26 9.99 9.09 8.78 8.44 9.05 8.34 8.44 8.11 8.87 8.01 8.12 8.27 9.17 9.68 8.71 8.34 9.10 8.48 9.30	ND ND	18.03	8.03-18.03	6299.08	6290.12 6290.12 6289.66 6288.26 6288.95 6289.67 6288.05 6288.05 6289.82 6289.09 6289.09 6289.09 6289.09 6289.09 6290.30 6290.64 6290.74 6290.74 6290.97 6290.91 6290.91 6290.921 6290.91 6290.93 6290.94 6290.97 6290.981 6289.91 6289.92 6290.74 6290.74 6290.74 6290.74 6289.91 6289.92 6290.74 6289.98 6290.74 6289.98 6290.60 6289.78

				TABLE 2				
				Pipeline Re				
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	Total Depth of Well (feet BTOC)	Screen Interval (feet BTOC)	TOC Elevation (feet AMSL)	Groundwater Elevation* (feet AMSL)
	4.21.11 6.21.11 9.22.11 12.13.11	ND ND ND ND	9.07 9.51 10.15 9.59	ND ND ND ND				6289.20 6288.76 6288.12 6288.68
	3.20.12 6.19.12 9.19.12 12.17.12 3.15.13	ND ND ND ND ND	9.35 10.09 10.29 9.47 9.11	ND ND ND ND ND	17.90	7.90-17.90		6288.92 6288.18 6287.98 6288.80 6289.16
MW-13	6.27.13 10.21.13 12.12.13 4.17.14 11.6.14 5.28.15	ND ND ND ND ND	9.94 8.91 8.57 8.39 8.83 8.83	ND ND ND ND ND			6298.27	6288.33 6289.36 6289.70 6289.88 6289.44 6280.05
	5.28.15 11.30.15 5.25.16 11.07.16 5.26.17 12.06.17	ND ND ND ND ND ND	8.32 8.21 8.01 8.67 7.83 7.90	ND ND ND ND ND ND				6289.95 6290.06 6290.26 6289.60 6290.44 6290.37
	5.30.18 11.01.18 9.20.19 1.31.20 5.11.20	ND ND ND ND ND ND	8.08 8.84 9.36 8.40 8.17	ND ND ND ND ND				6290.19 6289.43 6288.91 6289.87 6290.10
	5.11.20 11.11.20 5.28.21 11.22.21 4.21.11	ND ND ND ND ND	8.17 8.82 8.29 8.93 12.54	ND ND ND ND ND				6290.10 6289.45 6289.98 6289.34 6288.66
	6.21.11 9.22.11 12.13.11 3.20.12 6.19.12	ND ND ND ND ND	12.88 13.53 13.11 12.80 13.42	ND ND ND ND ND				6288.32 6287.67 6288.09 6288.40 6287.78
	9.19.12 12.17.12 3.15.13 6.27.13	ND ND ND ND	13.70 12.93 12.55 13.26	ND ND ND ND				6287.50 6288.27 6288.65 6287.94
MW-14	10.22.13 12.12.13 4.18.14 11.6.14 5.28.15	ND ND ND ND ND	12.39 12.06 11.79 12.23 11.67	ND ND ND ND ND	18.88	8.88-18.88	6301.20	6288.81 6289.14 6289.41 6288.97 6289.53
	11.30.15 5.25.16 11.07.16 5.26.17 12.06.17	ND ND ND ND ND	11.62 11.35 12.09 11.24 11.27	ND ND ND ND ND				6289.58 6289.85 6289.11 6289.96 6289.93
	5.30.18 11.01.18 9.20.19 1.31.20 5.11.20	ND ND ND ND ND	11.36 12.23 12.68 11.78 11.54	ND ND ND ND ND				6289.84 6288.97 6288.52 6289.42 6289.66
	11.11.20 5.28.21 11.22.21	ND ND ND	12.19 11.65 12.29	ND ND ND				6289.01 6289.55 6288.91

				TABLE 2				
				Pipeline Re DWATER ELEV				
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	Total Depth of Well (feet BTOC)	Screen Interval (feet BTOC)	TOC Elevation (feet AMSL)	Groundwater Elevation* (feet AMSL)
MW-16	4.21.11 6.21.11 9.22.11 12.13.11 3.20.12 6.19.12 9.19.12 12.17.12 3.15.13 10.21.13 12.12.13 4.17.14 11.6.14 5.28.15 11.07.16 5.26.17 12.06.17 5.30.18 11.01.18 9.20.19 1.31.20 5.28.21 11.22.21^A	ND ND ND ND ND ND ND ND ND ND ND ND ND N	12.06 12.26 12.57 12.28 12.24 12.71 12.80 11.90 11.80 12.37 11.32 10.92 10.76 10.99 10.56 10.39 10.10 10.86 10.01 10.01 10.01 10.32 10.32 10.36 11.57	ND ND ND ND ND ND ND ND ND ND ND ND ND N	18.01	8.01-18.01	6299.89	6287.83 6287.63 6287.63 6287.61 6287.65 6287.18 6287.09 6287.99 6288.09 6288.57 6288.57 6288.97 6289.13 6289.13 6289.33 6289.50 6289.79 6289.03 6289.79 6289.87 6289.87 6289.87 6289.87 6289.87 6289.87 6289.87 6289.57 6288.54 6289.57 6288.93 6289.53 6289.53 6288.32
MW-17	4.21.11 6.21.11 9.22.11 12.13.11 3.20.12 6.19.12 9.19.12 12.17.12 3.15.13 6.27.13 10.21.13 12.12.13 4.17.14 11.6.14 5.28.15 11.30.15 5.25.16 5.25.16 5.26.17 12.06.17 5.30.18 11.07.16 5.26.17 12.06.17 5.30.18 11.01.18 9.20.19 1.31.20 5.11.20 5.11.20 5.11.20 5.28.21 11.22.21	ND ND ND ND ND ND ND ND ND ND ND ND ND N	9.90 9.56 10.83 10.31 10.12 10.81 10.95 10.13 9.85 10.62 9.61 9.28 9.13 9.47 9.00 8.87 8.65 9.32 8.56 8.52 8.56 8.52 8.68 9.48 9.97 9.05 8.83 9.45 8.91 9.56	ND ND ND ND ND ND ND ND ND ND ND ND ND N	18.16	8.16-18.16	6298.57	6288.67 6289.01 6287.74 6288.26 6288.45 6287.76 6287.62 6288.44 6288.72 6287.95 6288.96 6289.29 6289.44 6289.10 6289.57 6289.70 6289.92 6289.70 6289.92 6289.25 6290.01 6290.05 6289.89 6289.89 6289.89 6289.60 6289.52 6289.74 6289.74 6289.74 6289.74 6289.74 6289.74 6289.74

				TABLE 2				
			Lateral K-51	Pipeline Rel	ease (2010)			
				DWATER ELEV				
Well I.D.	Date	Donth to	Depth to Water	Product	-	Screen Interval	TOC Elevation	Groundwater
wen i.d.	Date	Depth to Product	Depth to water	Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	3.20.12	ND	16.60	ND				6288.17
	6.19.12	ND	17.42	ND				6287.35
	9.19.12	ND	17.45	ND				6287.32
	12.17.12	ND	16.73	ND				6288.04
	3.15.13		Blockage					Blockage
	6.27.13		Blockage					Blockage
	10.22.13		Blockage					Blockage
	12.12.13 4.17.14		Blockage Blockage					Blockage Blockage
	11.6.14		Blockage					Blockage
	5.28.15		Blockage					Blockage
	11.30.15		Blockage		N1.0	N1.0	0004 77	Blockage
MW-18	5.25.16		Blockage		NA	NA	6304.77	Blockage
	11.07.16		Blockage					Blockage
	5.26.17	ND	15.12	ND				6289.65
	12.06.17	ND	15.31 Blackara	ND				6289.46
	5.30.18 11.01.18		Blockage Blockage					Blockage Blockage
	9.20.19		Blockage					Blockage
	1.31.20		Blockage					Blockage
	5.8.20		Blockage					Blockage
	11.11.20		Blockage					Blockage
	5.28.21		Blockage					Blockage
	11.22.21	ND	Blockage	ND				Blockage
	3.20.12 6.19.12 ^B	ND 40.05	15.69	ND				6288.11
		16.25	16.32	0.07				6287.52
	9.19.12 ^B 12.17.12	16.47 ND	16.49 15.91	0.02 ND				6287.32 6287.89
	3.15.13	ND	15.38	ND				6288.42
	6.27.13	ND	16.19	ND				6287.61
	10.22.13	ND	15.13	ND				6288.67
	12.12.13	ND	14.78	ND				6289.02
	4.18.14	ND	14.68	ND				6289.12
	11.6.14	ND	14.99	ND				6288.81
	5.28.15 11.30.15	ND ND	14.60 14.38	ND ND		10.00.00.00		6289.20 6289.42
MW-19	5.25.16	ND	14.38	ND	23.22	13.22-23.22	6303.80	6289.52
	11.07.16	ND	14.83	ND				6288.97
	5.26.17	ND	14.20	ND				6289.60
	12.06.17	ND	14.08	ND				6289.72
	5.30.18	ND	14.27	ND				6289.53
	11.01.18	ND	15.00	ND				6288.80
	9.20.19 1.31.20	ND ND	15.47 14.56	ND ND				6288.33 6289.24
	5.11.20	ND	14.30	ND				6289.40
	11.11.20	ND	14.98	ND				6288.82
	5.28.21	ND	14.53	ND				6289.27
	11.22.21	ND	15.05	ND				6288.75

	TABLE 2 Lateral K-51 Pipeline Release (2010) GROUNDWATER ELEVATIONS										
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	Total Depth of Well (feet BTOC)	Screen Interval (feet BTOC)	TOC Elevation (feet AMSL)	Groundwater Elevation* (feet AMSL)			
	3.20.12 6.19.12	ND ND	25.82 26.30	ND ND				6286.77 6286.29			
	9.19.12	ND	26.30	ND				6286.28			
	12.17.12	ND	25.42	ND				6287.17			
	3.15.13	ND	25.38	ND				6287.21			
	6.27.13	ND	26.11	ND				6286.48			
	10.22.13	ND	24.98	ND				6287.61			
	12.12.13	ND	24.57	ND				6288.02			
	4.17.14	ND	24.66	ND		20.51-30.51		6287.93			
	11.6.14	ND	24.81	ND			6312.59	6287.78			
	5.28.15	ND	24.80	ND				6287.79			
MW-20	11.30.15	ND	24.15	ND	30.51			6288.44			
	5.25.16	ND	24.28	ND	00101	2010 1 0010 1	00.2.00	6288.31			
	11.07.16	ND	24.48	ND				6288.11			
	5.26.17	ND	24.37	ND				6288.22			
	12.06.17	ND	23.95	ND				6288.64			
	5.30.18	ND	24.29	ND				6288.30			
	11.01.18	ND	24.69	ND				6287.90			
	9.20.19	ND	25.35	ND				6287.24			
	1.31.20	ND	24.26	ND	-			6288.33			
	5.11.20	ND	24.30	ND				6288.29			
	<u>11.11.20</u> 5.28.21	ND ND	24.73 24.43	ND ND				6287.86 6288.16			
	11.22.21	ND	24.43	ND				6287.89			

BTOC - below top of casing

TOC - top of casing

* - corrected for presence of phase-sepated hydrocarbon using a site-specific density correction factor of 0.63. Groundwater elevations at each well are listed in feet above mean sea level (AMSL) as measured from the TOC.

Basis of elevation: As measured at set temporary bench mark (elevation = 6296.14'), as indicated by the professional surveyor.

^A - Suspected misgauge.

^B - No visual verification. May not be hydrocarbon.

NA - Not Available

ND - Not Detected



APPENDIX C

Laboratory Data Sheets & Chain of Custody Documentation



June 07, 2021

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX:

RE: Lateral K-51 2010

OrderNo.: 2106007

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 12 sample(s) on 5/29/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order 2106007

Date Reported: 6/7/2021

CLIENT: ENSOLUM Project: Lateral K-51 2010	Client Sample ID: MW-11 Collection Date: 5/28/2021 9:40:00 AM								
Lab ID: 2106007-001	Matrix: AQUEOUS Received Date: 5/29/2021 8:35:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 8021B: VOLATILES					Analyst	ССМ			
Benzene	ND	1.0	µg/L	1	6/2/2021 7:02:00 PM	R78810			
Toluene	ND	1.0	µg/L	1	6/2/2021 7:02:00 PM	R78810			
Ethylbenzene	ND	1.0	µg/L	1	6/2/2021 7:02:00 PM	R78810			
Xylenes, Total	ND	2.0	µg/L	1	6/2/2021 7:02:00 PM	R78810			
Surr: 4-Bromofluorobenzene	83.2 7	0-130	%Rec	1	6/2/2021 7:02:00 PM	R78810			

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 14

Analytical Report Lab Order 2106007

Date Reported: 6/7/2021

CLIENT: ENSOLUM Project: Lateral K-51 2010			Sample I ection Dat		W-4 28/2021 10:20:00 AM	
Lab ID: 2106007-002	Matrix: AQUEOUS Received Date: 5/29/2021 8:35:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	ссм
Benzene	ND	1.0	µg/L	1	6/2/2021 7:22:00 PM	R78810
					6/2/2021 7:22:00 PM	
Toluene	ND	1.0	µg/L	1	6/2/2021 7:22:00 PIVI	R78810
Toluene Ethylbenzene	ND ND	1.0 1.0	μg/L μg/L	1 1	6/2/2021 7:22:00 PM	R78810 R78810
		-		1 1 1		

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 14

Lab Order 2106007

Date Reported: 6/7/2021

CLIENT: ENSOLUM Project: Lateral K-51 2010 Lab ID: 2106007-003	Client Sample ID: MW-12 Collection Date: 5/28/2021 10:50:00 Matrix: AQUEOUS Received Date: 5/29/2021 8:35:00					
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	1.0	µg/L	1	6/2/2021 7:41:00 PM	R78810
Toluene	ND	1.0	µg/L	1	6/2/2021 7:41:00 PM	R78810
Ethylbenzene	ND	1.0	µg/L	1	6/2/2021 7:41:00 PM	R78810
Xylenes, Total	ND	2.0	µg/L	1	6/2/2021 7:41:00 PM	R78810
Surr: 4-Bromofluorobenzene	82.9 7	0-130	%Rec		6/2/2021 7:41:00 PM	R78810

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 14

Analytical Report
Lab Order 2106007

Date Reported: 6/7/2021

CLIENT: ENSOLUM		Clien	t Sample I	D: M	W-1	
Project: Lateral K-51 2010	Collection Date: 5/28/2021 11:25:00 AM					
Lab ID: 2106007-004	Matrix: AQUEOUS Received Date: 5/29/2021 8:35:00 A				29/2021 8:35:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	ссм
Benzene	ND	1.0	µg/L	1	6/2/2021 8:01:00 PM	R78810
Toluene	ND	1.0	µg/L	1	6/2/2021 8:01:00 PM	R78810
Ethylbenzene	ND	1.0	µg/L	1	6/2/2021 8:01:00 PM	R78810
Xylenes, Total	ND	2.0	µg/L	1	6/2/2021 8:01:00 PM	R78810

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

Qualifiers:

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

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

Page 4 of 14

Analytical Report Lab Order 2106007

Date Reported: 6/7/2021

CLIENT: ENSOLUM		Clien	t Sample I	D: M	W-2	
Project: Lateral K-51 2010	Collection Date: 5/28/2021 12:00:00 PM					
Lab ID: 2106007-005	Matrix: AQUEOUS Received Date: 5/29/2021 8:35:00 A				29/2021 8:35:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	1.0	µg/L	1	6/2/2021 8:21:00 PM	R78810
Toluene	ND	1.0	µg/L	1	6/2/2021 8:21:00 PM	R78810
Ethylbenzene	ND	1.0	µg/L	1	6/2/2021 8:21:00 PM	R78810
Vulance Total	ND	2.0	µg/L	1	6/2/2021 8:21:00 PM	R78810
Xylenes, Total		=	P. 3			

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

Qualifiers:

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

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

Page 5 of 14

Analytical Report Lab Order 2106007

Date Reported: 6/7/2021

CLIENT: ENSOLUM		Clier	nt Sample I	D: M	W-13	
Project: Lateral K-51 2010	Collection Date: 5/28/2021 12:30:00 PM					
Lab ID: 2106007-006	Matrix: AQUEOUS Received Date: 5/29/2021 8:35:00				29/2021 8:35:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	ссм
Benzene	ND	1.0	µg/L	1	6/2/2021 8:41:00 PM	R78810
Toluene	ND	1.0	µg/L	1	6/2/2021 8:41:00 PM	R78810
Ethylbenzene	ND	1.0	µg/L	1	6/2/2021 8:41:00 PM	R78810
Xylenes, Total	ND	2.0	µg/L	1	6/2/2021 8:41:00 PM	R78810

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

Qualifiers:

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

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

Page 6 of 14

Analytical Report
Lab Order 2106007

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/7/2021

CLIENT: ENSOLUMClient Sample ID: MW-17Project:Lateral K-51 2010Collection Date: 5/28/2021 1:05:00 J						
Lab ID: 2106007-007	Matrix: AQUEOUS Received Date: 5/29/2021 8:35:00 AM					
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	1.0	µg/L	1	6/2/2021 9:01:00 PM	R78810
Toluene	ND	1.0	µg/L	1	6/2/2021 9:01:00 PM	R78810
Ethylbenzene	ND	1.0	µg/L	1	6/2/2021 9:01:00 PM	R78810
Xylenes, Total	ND	2.0	µg/L	1	6/2/2021 9:01:00 PM	R78810
Surr: 4-Bromofluorobenzene	85.6 7	0-130	%Rec	1	6/2/2021 9:01:00 PM	R78810

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

Qualifiers:

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

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

Page 7 of 14

Hall Environmental	Analysis Laboratory, Inc.

Lab Order 2106007

Date Reported: 6/7/2021

CLIENT: ENSOLUM Project: Lateral K-51 2010	Client Sample ID: MW-3 Collection Date: 5/28/2021 1:35:00 PM					
Lab ID: 2106007-008	Matrix: AQUEOUS	Re	ceived Dat	e: 5/2	29/2021 8:35:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	ССМ
Benzene	ND	1.0	µg/L	1	6/2/2021 11:00:00 PM	B78810
Toluene	ND	1.0	µg/L	1	6/2/2021 11:00:00 PM	B78810
Ethylbenzene	ND	1.0	µg/L	1	6/2/2021 11:00:00 PM	B78810
Vulence Total		~ ~		1	6/2/2021 11:00:00 PM	
Xylenes, Total	ND	2.0	µg/L	1	0/2/2021 11.00.00 FIVI	B78810

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 8 of 14

Analytical Report
Lab Order 2106007

Date Reported: 6/7/2021

CLIENT: ENSOLUM	Client Sample ID: MW-16						
Project: Lateral K-51 2010		С	ollection Dat	e: 5/2	28/2021 2:05:	00 PM	
Lab ID: 2106007-009	Matrix: AQUEOUS]	Received Dat	e: 5/2	29/2021 8:35:	00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analy	zed	Batch
EPA METHOD 8021B: VOLATILES						Analyst:	ССМ
Benzene	ND	1.0	µg/L	1	6/3/2021		B78810
Toluene	ND	1.0	µg/L	1	6/3/2021		B78810
Ethylbenzene	ND	1.0	µg/L	1	6/3/2021		B78810
Xylenes, Total	ND	2.0	µg/L	1	6/3/2021		B78810
Surr: 4-Bromofluorobenzene	85.7 7	0-130	%Rec	1	6/3/2021		B78810

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

Qualifiers:

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

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

Page 9 of 14

Hall	Environmental	Analysis	Laboratory,	Inc.
		•		

Lab Order 2106007

Date Reported: 6/7/2021

CLIENT: ENSOLUM		Client Sam	ple ID: M	W-14	
Project: Lateral K-51 2010		n Date: 5/2	28/2021 2:35:00 PM		
Lab ID: 2106007-010	Matrix: AQUEOUS	Received	l Date: 5/2	29/2021 8:35:00 AM	
Analyses	Result	RL Qual U	nits DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analyst:	ССМ
Benzene	ND	1.0 µg	g/L 1	6/3/2021 12:20:00 AM	B78810
Toluene	ND	1.0 u	g/L 1	6/3/2021 12:20:00 AM	
loiuene		1.0 μί	y/∟ i	0/3/2021 12.20.00 AM	B78810
Ethylbenzene	ND		g/L 1	6/3/2021 12:20:00 AM	B78810 B78810
		1.0 µg	•		

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 10 of 14

Lab Order 2106007

Date Reported: 6/7/2021

CLIENT: ENSOLUM	Client Sample ID: MW-20									
Project: Lateral K-51 2010		Colle	ction Dat	e: 5/2	28/2021 3:10:00 PM					
Lab ID: 2106007-011	Matrix: AQUEOUS	Rec	eived Dat	e: 5/2	29/2021 8:35:00 AM					
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch				
EPA METHOD 8021B: VOLATILES					Analyst:	ССМ				
Benzene	ND	1.0	μg/L	1	6/3/2021 12:40:00 AM	D70040				
						B78810				
Toluene	ND	1.0	µg/L	1	6/3/2021 12:40:00 AM	B78810 B78810				
Toluene Ethylbenzene	ND ND	1.0 1.0	μg/L μg/L	1 1	6/3/2021 12:40:00 AM 6/3/2021 12:40:00 AM					
				1 1 1		B78810				

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 11 of 14

Lab Order 2106007

Date Reported: 6/7/2021

CLIENT: ENSOLUM Project: Lateral K-51 2010			nt Sample I llection Dat		W-19 28/2021 3:35:00 PM	
Lab ID: 2106007-012	Matrix: AQUEOUS	R	eceived Dat	e: 5/2	29/2021 8:35:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	120	5.0	µg/L	5	6/3/2021 1:00:00 AM	B78810
Toluene	ND	5.0	µg/L	5	6/3/2021 1:00:00 AM	B78810
Ethylbonzono	63	5.0	µg/L	5	6/3/2021 1:00:00 AM	
Ethylbenzene	05	5.0	µg/∟	0		B78810
Xylenes, Total	19	5.0 10	μg/L	5	6/3/2021 1:00:00 AM	B78810 B78810

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 12 of 14

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2106007

07-Jun-21

	ENSOLUM Lateral K-51 2	2010									
Sample ID: 100ng E	TEX lcs	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSW		Batch	ID: R7	8810	F	RunNo: 78	8810				
Prep Date:	Ana	lysis Da	ate: 6/2	2/2021	S	SeqNo: 27	763901	Units: µg/L			
Analyte	Re	sult	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		18	1.0	20.00	0	89.4	80	120			
Toluene		18	1.0	20.00	0	90.6	80	120			
Ethylbenzene		19	1.0	20.00	0	93.8	80	120			
Xylenes, Total		55	2.0	60.00	0	92.1	80	120			
Surr: 4-Bromofluoroben	zene	17		20.00		85.0	70	130			
Sample ID: MB	S	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBW		Batch	ID: R7	8810	F	RunNo: 7 8	8810				
Prep Date:	Ana	lysis Da	ate: 6/2	2/2021	S	SeqNo: 27	763902	Units: µg/L			
Analyte	Re	sult	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0								
Toluene		ND	1.0								
Ethylbenzene		ND	1.0								
Xylenes, Total		ND	2.0								
Surr: 4-Bromofluoroben	zene	17		20.00		84.1	70	130			
Sample ID: 100ng E	TEX lcs2	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSW		Batch	ID: B7	8810	F	RunNo: 7	8810				
Prep Date:	Ana	lysis Da	ate: 6/2	2/2021	5	SeqNo: 2	764368	Units: µg/L			
Analyte	Re	sult	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		18	1.0	20.00	0	88.4	80	120			
Toluene		18	1.0	20.00	0	90.2	80	120			
Ethylbenzene		19	1.0	20.00	0	93.1	80	120			
Xylenes, Total		55	2.0	60.00	0	91.1	80	120			
Surr: 4-Bromofluoroben	zene	17		20.00		83.6	70	130			
Sample ID: MB2	5	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBW		Batch	ID: B7	8810	F	RunNo: 7 8	3810				
Prep Date:	Ana	lysis Da	ate: 6/2	2/2021	S	SeqNo: 2	764369	Units: µg/L			
Analyte	Re	sult	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0						-		-
Toluene		ND	1.0								
Ethylbenzene		ND	1.0								
-		ND	2.0								
Xylenes, Total											

Qualifiers:

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

- Analyte detected in the associated Method Blank в
- Е
- Р

Value above quantitation range

- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	ENSOLUM
Project:	Lateral K-51 2010

Ē

Sample ID: 2106007-008ams	SampType: MS TestCode: EPA Method 8021B: Volatiles									
Client ID: MW-3	Batch	Batch ID: B78810 RunNo: 78810								
Prep Date:	Analysis D	ate: 6/2	2/2021	S	eqNo: 2	764371	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.9	80	120			
Toluene	18	1.0	20.00	0	90.6	80	120			
Ethylbenzene	19	1.0	20.00	0	93.4	80	120			
Xylenes, Total	55	2.0	60.00	0	91.4	80	120			
Surr: 4-Bromofluorobenzene	16		20.00		81.7	70	130			
000000000000000000000000000000000000000										
Sample ID: 2106007-008amsd	SampT	ype: MS	D	Tes	Code: Ef	PA Method	8021B: Volat	iles		
	•	ype: MS 1D: B7			Code: Ef		8021B: Volat	iles		
Sample ID: 2106007-008amsd	•	n ID: B7	8810	R		8810	8021B: Volati Units: μg/L	iles		
Sample ID: 2106007-008amsd Client ID: MW-3	Batch	n ID: B7	8810 2/2021	R	unNo: 7	8810		iles %RPD	RPDLimit	Qual
Sample ID: 2106007-008amsd Client ID: MW-3 Prep Date: Analyte	Batch Analysis D	n ID: B7 Pate: 6/ 2	8810 2/2021	R	unNo: 7 8 eqNo: 2 7	3810 764372	Units: µg/L		RPDLimit 20	Qual
Sample ID: 2106007-008amsd Client ID: MW-3 Prep Date: Analyte Benzene	Batch Analysis D Result	n ID: B7 vate: 6/ PQL	8810 2/2021 SPK value	R S SPK Ref Val	unNo: 78 eqNo: 27 %REC	3810 764372 LowLimit	Units: µg/L HighLimit	%RPD		Qual
Sample ID: 2106007-008amsd Client ID: MW-3 Prep Date: Analyte Benzene Toluene	Batch Analysis D Result 17	n ID: B7 pate: 6/ 2 PQL 1.0	8810 2/2021 SPK value 20.00	R S SPK Ref Val 0	eqNo: 78 %REC 86.2	8810 764372 LowLimit 80	Units: µg/L HighLimit 120	%RPD 2.98	20	Qual
Sample ID: 2106007-008amsd Client ID: MW-3 Prep Date:	Batch Analysis D Result 17 18	n ID: B7 pate: 6/ <u>PQL</u> 1.0 1.0	8810 2/2021 SPK value 20.00 20.00	R S SPK Ref Val 0 0	anNo: 78 SeqNo: 27 %REC 86.2 87.5	8810 764372 LowLimit 80 80	Units: µg/L HighLimit 120 120	%RPD 2.98 3.38	20 20	Qual

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

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

Page 14 of 14

WO#: **2106007**

07-Jun-21

1

•

HALL HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: clients.ha	4901 Haw uquerque, NI FAX: 505-3	vkins NE M 87109 45-4107	San	nple Log-In Check List	ige
Client Name: ENSOLUM	Work Order Number:	2106007			RcptNo: 1	
Received By: Sean Livingston	5/29/2021 8:35:00 AM		<	5-6	nat	
Completed By: Cheyenne Cason	6/1/2021 8:12:56 AM		(la	1	- John	
Reviewed By: DAD 6.1.21			Care			
Chain of Custody						
1. Is Chain of Custody complete?		Yes 🖌	1	No 🗌	Not Present	
2. How was the sample delivered?		Courier				
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	Ν	lo 🗌		
4. Were all samples received at a temperature o	f >0° C to 6.0°C	Yes 🗹	Ν	lo 🗌		
5. Sample(s) in proper container(s)?		Yes 🗹	Ν	lo 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	N	o 🗌		
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🖌	N	o 🗌		
8. Was preservative added to bottles?		Yes	N	o 🖌	NA 🗌	
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes 🗸	N	o 🗌		
10. Were any sample containers received broken	?	Yes	Ν	lo 🗹	# of preserved bottles checked	/
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 		Yes 🗹	N	o 🗌	for pH: (<2 or >12 unless note	ed)
2. Are matrices correctly identified on Chain of C	ustody?	Yes 🗹	N		Adjusted?	
3. Is it clear what analyses were requested?		Yes 🗹	N		Checked by: SDA 6.	1.
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	N	o 🗌	Checked by: SPA 6	1.
Special Handling (if applicable)						
15. Was client notified of all discrepancies with th	is order?	Yes 🗌	١	lo 🗌	NA 🗹	
Person Notified:	Date:	ta Televisto Bandonia esta tribar oregi pares	Alaran Solar salar a-anasa	and and a conserved.		
By Whom:	Via:	eMail	Phone	🗌 Fax	In Person	
Regarding: Client Instructions:		and the house and the statement	southers and date	Acon exacts incat		
16. Additional remarks:						
17. <u>Cooler Information</u>			c			
Cooler No Temp °C Condition Sea	al Intact Seal No S	Seal Date	Signe	a By		

Page 1 of 1

Received by OCD: 7/3/2024 1	2 :33:21 PM	\square										<i>P</i>	age 51 of
ENVIRONMENTAL YSIS LABORATOR environmental.com Albuquerque, NM 87109 Fax 505-345-4107 alysis Request													M
IALL ENVIRONN NALYSIS LABOI www.hallenvironmental.com ns NE - Albuquerque, NM 87 5-3975 Fax 505-345-4107 Analysis Request	Total Coliform (Present/Absent)												Ensol
/IR S L iment iment 505- Requ	(AOV-im92) 0728											· · · · · (5
HALL ENVJ ANALYSIS www.hallenvironm kins NE - Albuquer 845-3975 Fax 50 Analysis R	(AOV) 0528					-							-
	RCKA 8 Metals CI, F, Br, NO₃, NO₂, PO₄, SO₄											-	2
HALL ANAL www.ha Hawkins NE 505-345-3975	PAHs by 8310 or 8270SIMS					_		1.0	_				Bill to
H, AI w wkin	EDB (Method 504.1)		-				_	-					$\tilde{\mathbb{M}}$
	s'808 Pesticides/8082 PCB's												
4901 Tel.	трн:8015D(GRO / DRO / MRO)						_	_				Remarks	
	BTEX / MTBE / TMB's (8021)	>	$\langle \times$	X	X	\times	\times	$\langle \rangle$	X	X	X	Rem	
2010)	No.			13				009				Time 736	Time §: 55
51	HEAL NO.	002	003	hao	005	006	C07	Cto C	010	110	210	5/28/21	Date 5 (2 º 2
d Time: d DRush er A 1226	K.S. Darie (es ng cr): 1.8 servative		de	+ NºUs	+ 43C12	A Racy	H HECT	Hacly Hacl	A HLOW	+ Nelly	+ NADI-	Wa:	Via:
Turn-Around Tim 文Standard Project Name: しっトレク	Project Manager: K Sampler: L.U.C. On Ice: T.Yes # of Coolers: 1 Cooler Temp(including cr): Container Preserva Type and # Type	2×40m104	3x Yand Vo	3× yould	3×40,~109	2×40mLV0A	ZXYCMULVOA	3× 42m LIDA	3×40mLVOA	3x40ml M	3×40nubr	Received by:	Received by:
Chain-of-Custody Record Enselwn, LLC Ig Address: LOL S. RieGande, Swite A Hec, WM 87410 e#:	Az Compliance Devel 4 (Full Validation) Sampler: Az Compliance Sampler: Level 4 (Full Validation) Az Compliance Don lce: Don lce: Other Conlect: Don lce: Az Compliance Don lce: Don lce: Az Complexit Conlect: Don lce: Az Complexit Trop and # Trop and #	MW-11 MM-4	MW-12	NW-1	Z-MM	MW-13	- 1	WW-16	MW2-14	MW-20	MW-19	ed by:	Time: Relinguished by: Via: Date Time B; II to Ensolum 1847 While Ensolum
ain-of-Cus Ense lum dress: Lob S.		33	B	3	R	3	N	33	N	2	N	Relinquished by:	Relinguished by:
Chain-O Client: Enge Mailing Address: 6 Phone #:	A: A	07:01 1	10:35	1:25	12:20	12:30		14:05	14:35	15:10	15:35	Time:	Time: 847
eleased to Imaging: 8/2/707	Watter Content of Cont	shepu	Stal	12/00/5	Sirehu	5/20/21	nfacts	5/28/4	548/21	sheld	42824	Date: Shehrl	Date: 5/28/21



December 07, 2021

Kyle Summers Ensolum 606 S Rio Grande Ste A Aztec, NM 87410 TEL: (903) 821-5603 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2111B24

RE: Lateral K 51 2010

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/23/2021 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Surr: Dibromofluoromethane

Surr: Toluene-d8

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2111B24 Date Reported: 12/7/2021

11/30/2021 2:22:05 PM R83191

11/30/2021 2:22:05 PM R83191

					/==
CLIENT: Ensolum		Client Sample 1	D: M	W-4	
Project: Lateral K 51 2010		Collection Da	te: 11	/22/2021 10:15:00 AN	1
Lab ID: 2111B24-001	Matrix: AQUEO	US Received Da	te: 11	/23/2021 7:45:00 AM	
Analyses	Result	PQL Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST			Analys	t: JR
Benzene	ND	1.0 μg/L	1	11/30/2021 2:22:05 PM	/ R83191
Toluene	ND	1.0 μg/L	1	11/30/2021 2:22:05 PM	/I R83191
Ethylbenzene	ND	1.0 µg/L	1	11/30/2021 2:22:05 PM	/I R83191
Xylenes, Total	ND	1.5 μg/L	1	11/30/2021 2:22:05 PM	/ R83191
Surr: 1,2-Dichloroethane-d4	99.8	70-130 %Rec	1	11/30/2021 2:22:05 PM	/ R83191

93.4

98.3

70-130

70-130

%Rec

%Rec

1

1

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

Qualifiers:

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

Page 1 of 9

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2111B24 Date Reported: 12/7/2021

11/30/2021 2:50:39 PM R83191

11/30/2021 2:50:39 PM R83191

CLIENT: Ensolum		Client Sample I	D: M	W-1		
Project: Lateral K 51 2010		Collection Da	te: 11	/22/2021 10:50:00 AM	I	
Lab ID: 2111B24-002	Matrix: AQUEOUS Received Date: 11/23/2021 7:45:00 AM					
					D (1	
Analyses	Result	PQL Qual Units	DF	Date Analyzed	Batch	
Analyses EPA METHOD 8260: VOLATILES SHO		PQL Qual Units	DF	Date Analyzed Analyst		
		PQL Qual Units	DF 1	U	:: JR	
EPA METHOD 8260: VOLATILES SHO	RT LIST		DF 1 1	Analyst	:: JR I R83191	
EPA METHOD 8260: VOLATILES SHO Benzene	RT LIST	1.0 μg/L	1	Analyst 11/30/2021 2:50:39 PM	:: JR R83191 R83191	
EPA METHOD 8260: VOLATILES SHO Benzene Toluene	RT LIST ND ND	1.0 μg/L 1.0 μg/L	1 1	Analyst 11/30/2021 2:50:39 PM 11/30/2021 2:50:39 PM	:: JR R83191 R83191 R83191	

70-130

70-130

%Rec

%Rec

1

1

95.5

99.1

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

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

Page 2 of 9

.

Released to Imaging: 8/6/2024 3:47:11 PM

Surr: Toluene-d8

Analytical Report Lab Order 2111B24

11/30/2021 3:19:14 PM R83191

Date Reported: 12/7/2021

1

%Rec

LIENT: Ensolum		Client	t Sample II	D: M	W-2	
roject: Lateral K 51 2010		Coll	ection Dat	e: 11	/22/2021 11:20:00 AN	Л
ab ID: 2111B24-003	Matrix: AQUE	OUS Re	ceived Dat	e: 11	/23/2021 7:45:00 AM	
Analyses	Result	PQL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SH	IORT LIST				Analys	t: JR
EPA METHOD 8260: VOLATILES SH Benzene	HORT LIST	1.0	µg/L	1	Analys 11/30/2021 3:19:14 PI	-
		1.0 1.0	μg/L μg/L	1 1	,	/ R8319
Benzene	ND			1 1 1	11/30/2021 3:19:14 PI	/ R8319 / R8319
Benzene Toluene	ND ND	1.0	μg/L	•	11/30/2021 3:19:14 Pi 11/30/2021 3:19:14 Pi	/ R8319 / R8319 / R8319
Benzene Toluene Ethylbenzene	ND ND ND	1.0 1.0	μg/L μg/L	1	11/30/2021 3:19:14 PI 11/30/2021 3:19:14 PI 11/30/2021 3:19:14 PI 11/30/2021 3:19:14 PI	A R8319 A R8319 A R8319 A R8319 A R8319

99.1

70-130

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

Qualifiers:

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

Page 3 of 9

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2111B24

11/30/2021 3:47:51 PM R83191

11/30/2021 3:47:51 PM R83191

Hall Environmental Analysis Laboratory, Inc.	
--	--

Date Reported: 12/7/2021

CLIENT: Ensolum		Client	Sample II	D: M	W-17	
Project: Lateral K 51 2010		Colle	ection Dat	e: 11	/22/2021 11:45:00 #	AM
ab ID: 2111B24-004	Matrix: AQUEC	DUS Rec	eived Dat	e: 11	/23/2021 7:45:00 A	М
Analyses	Result	POL Ou	al Units	DF	Date Analyzed	Batch
		U U ¹			2 400 1111415 204	
EPA METHOD 8260: VOLATILES SHOR					v	yst: JR
v	RT LIST	1.0	µg/L	1	v	-
EPA METHOD 8260: VOLATILES SHOR				1	Anal	PM R8319
EPA METHOD 8260: VOLATILES SHOR Benzene	ND	1.0	µg/L	1	Anal 11/30/2021 3:47:51	PM R8319 PM R8319
EPA METHOD 8260: VOLATILES SHOR Benzene Toluene	ND ND	1.0 1.0	μg/L μg/L	1	Anal 11/30/2021 3:47:51 11/30/2021 3:47:51	PM R8319 PM R8319 PM R8319

97.1

100

70-130

70-130

%Rec

%Rec

1

1

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

Qualifiers:

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

Page 4 of 9

Surr: 1,2-Dichloroethane-d4

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2111B24

11/30/2021 4:16:37 PM R83191

11/30/2021 4:16:37 PM R83191

11/30/2021 4:16:37 PM R83191

Date Reported: 12/7/2021

CLIENT: Ensolum		Client S	Sample I	D: M	W-16	
Project: Lateral K 51 2010		Colle	ction Dat	e: 11	/22/2021 12:05:00 PM	
Lab ID: 2111B24-005	Matrix: AQUEOUS Received Date: 11/23/2021 7:45:00 AM					
Analyses	Result	PQL Qua	Qual Units		Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHOR	T LIST				Analys	: JR
EPA METHOD 8260: VOLATILES SHOR	r LIST ND	1.0	µg/L	1	Analys 11/30/2021 4:16:37 PM	
		1.0 1.0	μg/L μg/L	1 1		R83191
Benzene	ND	-		1 1 1	11/30/2021 4:16:37 PM	R83191 R83191

101

99.2

97.3

70-130

70-130

70-130

%Rec

%Rec

%Rec

1

1

1

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

Qualifiers:

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

Page 5 of 9

Surr: 1,2-Dichloroethane-d4

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2111B24

11/30/2021 4:45:18 PM R83191

11/30/2021 4:45:18 PM R83191

11/30/2021 4:45:18 PM R83191

Date Reported: 12/7/2021

CLIENT: Ensolum	Client Sample ID: MW-14					
Project: Lateral K 51 2010		Colle	ection Dat	e: 11,	/22/2021 12:35:00 PM	1
Lab ID: 2111B24-006	Matrix: AQUEOUS	S Rec	eived Dat	e: 11,	/23/2021 7:45:00 AM	
			Qual Units	DE	Dete Anolymod	Batch
Analyses	Result	PQL Qu	al Units	Dr	Date Analyzed	Date
Analyses EPA METHOD 8260: VOLATILES SHOR		PQL Qu	al Units	DF	Analysed	
·		1.0	µg/L	DF	·	t: JR
EPA METHOD 8260: VOLATILES SHOR	RT LIST			1 1	Analys	t: JR // R831
EPA METHOD 8260: VOLATILES SHOR Benzene	RT LIST ND	1.0	µg/L	1 1 1	Analys 11/30/2021 4:45:18 PM	t: JR / R831 / R831

103

98.7

97.6

70-130

70-130

70-130

%Rec

%Rec

%Rec

1

1

1

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

Qualifiers:

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

Page 6 of 9

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2111B24

11/30/2021 5:13:48 PM R83191

11/30/2021 5:13:48 PM R83191

Lab Order **2111B24** Date Reported: **12/7/2021**

CLIENT: Ensolum		Client	t Sample II	D: M	W-20	
Project: Lateral K 51 2010		Coll	ection Dat	e: 11	/22/2021 1:05:00 PM	
Lab ID: 2111B24-007	Matrix: AQUE	OUS Re	ceived Dat	e: 11	/23/2021 7:45:00 AM	
Analyses	Result	PQL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analys	t: JR
EPA METHOD 8260: VOLATILES S Benzene	SHORT LIST	1.0	µg/L	1	Analys 11/30/2021 5:13:48 PM	
		1.0 1.0	μg/L μg/L	1 1		1 R83191
Benzene	ND	-		1 1 1	11/30/2021 5:13:48 PM	1 R83191 1 R83191
Benzene Toluene	ND ND	1.0	μg/L	1 1 1 1	11/30/2021 5:13:48 PM 11/30/2021 5:13:48 PM	I R83191 I R83191 I R83191

96.5

95.9

70-130

70-130

%Rec

%Rec

1

1

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

Qualifiers:

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

Page 7 of 9

Released to Imaging: 8/6/2024 3:47:11 PM

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2111B24

11/30/2021 5:42:30 PM R83191

11/30/2021 5:42:30 PM R83191

Hall Environmental Analysis Laboratory, Inc.					Date Reported: 12/7/2021			
CLIENT: Ensolum		Clier	nt Sample II): M	W-19			
Project: Lateral K 51 2010	Collection Date: 11/22/2021 1:35:00 PM							
Lab ID: 2111B24-008	Matrix: AQUEOUS Received Date: 11/23/2021 7:45:00 AM							
Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch		
EPA METHOD 8260: VOLATILES S	HORT LIST				Analys	st: JR		
Benzene	160	5.0	µg/L	5	11/30/2021 5:42:30 PI	M R83191		
Toluene	ND	5.0	µg/L	5	11/30/2021 5:42:30 PI	M R83191		
Ethylbenzene	85	5.0	µg/L	5	11/30/2021 5:42:30 PI	M R83191		
Xylenes, Total	14	7.5	µg/L	5	11/30/2021 5:42:30 PI	M R83191		
Surr: 1,2-Dichloroethane-d4	93.9	70-130	%Rec	5	11/30/2021 5:42:30 PI	M R83191		

89.1

94.8

70-130

70-130

%Rec

%Rec

5

5

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

Qualifiers:

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

Page 8 of 9

Ensolum

Lateral K 51 2010

Client:

Project:

Sample ID 100ng Ics

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Б	Analyte de
Е	Estimated

Sample pH Not In Range

Reporting Limit

в Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

Р

RL

-				
timated	value			

Quali	ifiers:	
	87.1	

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

Client ID: LCSW	Batc	h ID: R8	3191	F	RunNo: 8	3191				
Prep Date:	Analysis [Date: 1	1/30/2021	S	SeqNo: 2	955404	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	21	1.0	20.00	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		99.8	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.6	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.1	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			
Sample ID mb	Samp	Гуре: М	BLK	Tes	tCode: El	PA Method	8260: Volatile	es Short L	ist	
Sample ID mb Client ID: PBW		Гуре: МІ h ID: R8			tCode: El RunNo: 8 :		8260: Volatile	es Short L	.ist	
•		h ID: R8	3191	F		3191	8260: Volatile Units: µg/L	es Short L	list	
Client ID: PBW	Batc	h ID: R8	3191 1/30/2021	F	RunNo: 8	3191		es Short L %RPD	.ist RPDLimit	Qual
Client ID: PBW Prep Date: Analyte	Batc Analysis [h ID: R8 Date: 1	3191 1/30/2021	F	RunNo: 8 SeqNo: 2	3191 955405	Units: µg/L			Qual
Client ID: PBW Prep Date: Analyte Benzene	Batc Analysis I Result	h ID: R8 Date: 1 ⁴ PQL	3191 1/30/2021	F	RunNo: 8 SeqNo: 2	3191 955405	Units: µg/L			Qual
Client ID: PBW Prep Date: Analyte Benzene Toluene	Batc Analysis I Result ND	h ID: R8 Date: 1 PQL 1.0	3191 1/30/2021	F	RunNo: 8 SeqNo: 2	3191 955405	Units: µg/L			Qual
Client ID: PBW Prep Date:	Batc Analysis I Result ND ND	h ID: R8 Date: 1 PQL 1.0 1.0	3191 1/30/2021	F	RunNo: 8 SeqNo: 2	3191 955405	Units: µg/L			Qual
Client ID: PBW Prep Date: Analyte Benzene Toluene Ethylbenzene	Batc Analysis I Result ND ND ND	h ID: R8 Date: 1 ⁴ PQL 1.0 1.0 1.0	3191 1/30/2021	F	RunNo: 8 SeqNo: 2	3191 955405	Units: µg/L			Qual
Client ID: PBW Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Batc Analysis I Result ND ND ND ND	h ID: R8 Date: 1 ⁴ PQL 1.0 1.0 1.0	33191 1/30/2021 SPK value	F	RunNo: 8 SeqNo: 2 %REC	3191 955405 LowLimit	Units: µg/L HighLimit			Qual
Client ID: PBW Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Batc Analysis I Result ND ND ND ND 11	h ID: R8 Date: 1 ⁴ PQL 1.0 1.0 1.0	33191 1/30/2021 SPK value 10.00	F	RunNo: 8 SeqNo: 2 %REC	3191 955405 LowLimit 70	Units: µg/L HighLimit 130			Qual

TestCode: EPA Method 8260: Volatiles Short List

WO#: 2111B24

03-Jan-22

Page 9 of 9

Received by OCD: 7/3/2024 12:33:21 PM

ANALYSIS

LABORATORY

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

Page 62 of 240

Sample	Log-In	Check	List
--------	--------	-------	------

Client Name:	ENSOLUM	Work Order Nu	mber: 2111B24		RcptNo: 1
Received By:	Isaiah Ortiz	11/23/2021 7:45	00 AM	INC	2-1
Completed By:	Desiree Dominguez	11/23/2021 8:37:	03 AM	T	
Reviewed By:	JR 11/23/21			11-3	
Chain of Cus	tody				
1. Is Chain of Co	ustody complete?		Yes 🗹	No 🗆	Not Present
2. How was the	sample delivered?		Courier		
Log In					
3. Was an attem	pt made to cool the samples	1?	Yes 🗹	No 🗌	NA 🗌
4. Were all samp	oles received at a temperatur	re of ≥0°C to 6.0°C	Yes 🗹	No 🗌	
5. Sample(s) in p	proper container(s)?		Yes 🔽	No 🗌	
6. Sufficient sam	ple volume for indicated test	(s)?	Yes 🗹	No 🗌	
7. Are samples (e	except VOA and ONG) prope	arly preserved?	Yes 🔽	No 🗔	
Was preservat	ive added to bottles?		Yes 🗌	No 🔽	NA 🗌
9. Received at lea	ast 1 vial with headspace <1.	/4" for AQ VOA?	Yes 🗹	No 🗌	
Were any sam	ple containers received brok	en?	Yes 🗆	No 🔽	/
	rk match bottle labels?		Yes 🔽	No 🗆	# of preserved bottles checked for pH:
	ncies on chain of custody)				(<2 or >12 unless noted
	orrectly identified on Chain o analyses were requested?	f Custody?	Yes 🗹	No 🗌	Adjusted?
	g times able to be met?		Yes ☑ Yes ☑	No 🗌	Charles have 122/1
	stomer for authorization.)		162 💌	No 🗌	Checked by: Crc 11/23/0
pecial Handli	ng (if applicable)				
15. Was client not	ified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹
Person N	Notified:	Dat	e:		
By Whor	n:	Via		hone 🗌 Fax	In Person
Regardir	ng:				
Client Ins	structions:				

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes	00.000000000000000000000000000000000000		eigned by
2	1.1	Good	Yes			

	and a case of second				L	3		CALLER TO	DOBIAL D	1
client Ensighan	· LLC	D Standard	D Rush				ANALY	AND	VSTS I ABODATOD	TODE
		Project Name						CTC I	atal com	YD-
Mailing Address:	Distriction to Curter A.	Latera	1 K-S	1 /2010)	490	4901 Hawkins NF		Thursday	Albumanne NM 87100	
Actes WAY O		Project #:			Tal	1 505-345-3075	1	Eav 5	505 345 4107	
	And the second se	1200	226010				Ans	Analysis R	Request	No.
email or Fax#:	marcia encolan con	A	der:	Support of the second	2 1000			10	()	
QA/OC Package:	n	WOLD THE	S Honnaw		NMR(e ito	nesdA\	
CROTTER .	D Az Compliance		210		אם אמ	(1.4				
D EDD (Type)		# of Coolers:	L Tes L	CI NO	วษธ	09 P	sle			
		Cooler Temp(mausing cF1.	Industing CF1.	(D.)	20(porta	təM	(AC		
Date Time Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	X 3TEX /	9081 Pe	(d 2HA 8 AAOF 8 AAOF	1320 (AC	oC) (610 oC) (610	
they with w	MW-14 4 LD	4	Hall,			1	1	3	er, means	
my ds-of inter	I MM- I	3-Unulia	Harl.		X					
WI DI'N RYCH	WW-3-2-0	Par you UDA	to.		×	and and and and				
Infal was W	MW-17	7×404100	Her.	NAME OF TAXABLE	×	and the second				
han neos w	MAN-160	as thull be	icc.	「日本」の	×					
M SEZI MED	MW-14	zayland the	NOL.		>					
12141 13:02 M	MW-20	2x Hanilton	100-		>					
w see interin	MM-19	Profile 11	1264	A REAL PROPERTY OF	>		1000			
Date: Time: Relinquished by:	thed by:	Received hur	Viai							
121.251 101	20	111	the a	tely real	Remarks:					
Date: Time: Relinquished by	thed by:	Received by:	Via;	Date Time		ia	5 1	1 I I	dun	

	in-of-	- Cu	Chain-of-Custody Record	Turn-Around Tim	Time:					Î					ceive
Client:	2150000	inter,	LLC	X Standard	C Rush				ANAL	N N			AALL ENVIKONMENTAL ANALYSTS LABODATOD		d by (
mag				Project Name:				(⁻							0 <i>CL</i>
:sources:	10000	150	6015Riolornale Saile A	Latera	N X V	51 (2010)	4901	4901 Hawkins NE -	IS NE		www.naiienviroimental.com ns NE - Albuquerque, NM (environmental.com Albuquerque, NM 87109	7109): 7/3/
8/6/2	NNN	6		Project #:			Tel	505-345-3975	3975		205	505-345-4107	7		/202
				CSA12	226010	0				Analys	Analysis Request	lest			4 12
email or Fax#: Y <	年となる	1-1-1	ne - Sa encolor. Com	Project Manager:	ger:		_		_	*0		(tr			:33:
QA/QC Package:	age:					×	мва		SV	⁴ ' S		Jəso			21 1
C Standard			Level 4 (Full Validation)	K.Sur	STOUTUN	.0	10		VISO	ЮЧ		łA∖tr			PM
Accreditation:		Z Con	Az Compliance	Sampler:	. Danie	11	שמ	(1	0228	' ^z O		Jəse			
D NELAC	-	D Other		On Ice:	Ves Ves	O No	0	Þ09		Ν '	(40	Pre)			
□ EDD (Type))e)			# of Coolers:	P.0 2	,. Q.F.,. H	9) 19	g po			_) ա.	_	_	
		13		Cooler Temp(induding CF):		1- ±0, (°C)	IPD	etpo				ofilo			
Date Time	e Matrix		Sample Name	Container Type and #	Preservative Type	2111 B24	VX3T8 08:H9T 08:1 P4	9081 Pé	РАНа b	CI' E' B	A) 0728 2) 0728	D letoT			
21:01 122411 10:15	5	2	MW-14		Hach.	100-	×				_				
JS:01 Hotel			1414-1	3-40ullar	Mach.	E00-	X								
oral intertio	3	~	NW-3-20	Baylond VOA	Her.	- 003	×								
Shin refequ	5 14		NW-17	3× Gand Uda	Mar.	H00-	×								
lipspel r2:05	2 20	4	MAN - LLC	3×40ulich	Mach	-00S	×								
1/22/21 12:35	35 11	~	MW-14	Skyballon	SATL.	-006	X								
4/25/21 13:05	22 20	~	MW-20	34 HunLUON	Della	±00-	× ×								
upzyu 12835	5	~	MW-19	3×40milion	War	-008	X								
	1				()										
								\mp							
								1		+	1	-			
Date: Time:	N	Relinquished by:	the second s	Received by:	UNA:	Date Time	Remarks:	1			1	-			Pa
5	1	Relinquished by:	N.M. M. Mar	Received by:				Bill to	+		14	Ensolum	ر		ige 64 of
lf naro	scan, camilar	ae aihm	eihmittart to Hall Environmantal mau ha euhov	antimized in other as						1.					^c 240



July 1, 2024

ENTERPRISE PRODUCTS PARTNERS L.P. ENTERPRISE PRODUCTS GP, LLC (General Partner)

Submitted online via OCD E-Permitting: https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/default.aspx

Mr. Nelson Velez New Mexico Energy, Minerals & Natural Resources Department – Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

2023 Groundwater Monitor	<i>ing Report</i> (Ensolum, April 11, 2024)
2022 Groundwater Monitor	ing Report (Ensolum, March 22, 2023)
2021 Groundwater Monitor	ing Report (Ensolum, March 29, 2022)
Enterprise Field Services, LL	C
Lateral K-51 Pipeline Release	e (4/13/2010)
Rio Arriba Co., NM	[S34 and 35, T26N R6W (36.4465° N, 107.4461° W)]
OCD RP: 3R-446; Stage 1 Al	P-130; Incident No. nAUTOFAB00318
	2022 Groundwater Monitori 2021 Groundwater Monitori Enterprise Field Services, LLC Lateral K-51 Pipeline Release Rio Arriba Co., NM

Dear Mr. Velez:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, is pleased to submit to New Mexico Oil Conservation Department (OCD) one electronic copy (online via OCD E-Permitting) of the above-referenced documents (Submittal1, Submittal2, and Submittal3, collectively "Submittals") prepared by Ensolum, LLC (Ensolum). The Submittals are associated with the Enterprise Lateral K-51 release of natural gas condensate liquids that occurred on April 13, 2010 from a natural gas gathering pipeline, located in Rio Arriba County, New Mexico (the "Site"). Submittal1 summarizes on-site activities that occurred between January 1, 2023 and December 31, 2023 ("reporting period" for Submittal2, and Submittal3 summarizes on-site activities conducted between January 1, 2022 and December 31, 2022 ("reporting period" for Submittal2), and Submittal3 summarizes on-site activities conducted between January 1, 2021 and December 31, 2021 ("reporting period" for Submittal3). During each reporting period, on-going groundwater monitoring and sampling (GWM&S) activities were continued to evaluate the magnitude and stability of the dissolved-phase hydrocarbon (DPH) plume in groundwater.

Data presented in the attached Submittals indicate that only the benzene concentrations in monitoring well MW-19 remain in excess of applicable New Mexico Water Quality Control Commission (NMWQCC) Groundwater Quality standards (GQS) and constituents of concern (COC) concentrations are generally stable and/or declining at the Site. Phaseseparated hydrocarbon (PSH) has not been observed at the Site, with the exception of two anomalous events in 2012 (MW-19), which were not visually confirmed. The DPH plume is not currently delineated to the southwest of MW-19 due to an obstruction (silted in or collapsed) of MW-18; however, historical COC concentrations were all below laboratory detection limits for MW-18. Additionally, in comparing current COC data to historical data, the COC exceedances identified at MW-19 appear to be associated with another historical release source. COCs in the original release area have been below laboratory detection limits and/or applicable NMWQCC GQSs since November 2016, or earlier.

Based on the data contained within the attached Submittals, Enterprise plans to: 1) continue conducting semi-annual GWM&S events with annual sampling of monitoring wells MW-3 and MW-11 through MW-13 (as per OCD approval email dated June 8, 2020); 2) install a shallow recovery well up-gradient of monitoring well MW-19 to facilitate enhanced fluid recovery; 3) repair or replace monitoring well MW-18 as described in the *Stage 1 Abatement Plan* (Ensolum, revised May 22, 2019); 4) potentially conduct additional site-specific aquifer characterization; and, 5) prepare a *Stage 2 Abatement Plan*, *if required*, after concurrence that the *Stage 1 Abatement Plan* is deemed administratively complete.

Enterprise appreciates the OCD's continued assistance and guidance in bringing closure to this Site. Should you have any questions, comments, or concerns, or require additional information, please contact Scott Drewry via email (<u>sdrewry@eprod.com</u>) or phone (713-381-5696), or our project consultant Kyle Summers (<u>ksummers@ensolum.com</u>) with Ensolum.

Sincerely,

Jon E. Fields Director, Environmental

cc: BLM, Farmington, NM – Mr. J. Nolan Craun <6251 College Blvd., Suite A, Farmington, NM 87402> Landowner – Mr. Russell Luna < PO Box 753, Bloomfield, NM 87413-0753>

ec: Ensolum, Houston, TX – Mr. Kyle Summers < <u>ksummers@ensolum.com</u> >

P.O. Box 4324 Houston, Texas 77210-4324 713.381.6500 1100 Louisiana Street Houston, Texas 77002-5227 www.epplp.com



2022 GROUNDWATER MONITORING REPORT

Property:

Lateral K-51 Pipeline Release (2010) Unit Letter H of S34 and Unit Letter E of S35 T26N R6W Rio Arriba County, New Mexico

> New Mexico EMNRD OCD RP No. 3RP-446 Abatement Plan No. 130 Incident ID No. nAUTOfAB000318

> > March 22, 2023

Ensolum Project No. 05A1226010

Prepared for:

Enterprise Field Services, LLC

P.O. Box 4324 Houston, Texas 77210-4324 Attn: Mr. Gregory E. Miller, PG

Prepared by:

Ranee Deechilly Project Manager

Umm

Kyle Summers Senior Managing Geologist

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants

606 South Rio Grande, Suite A | Aztec, NM 87410 | ensolum.com

2022 Groundwater Monitoring Report Enterprise Field Services, LLC Lateral K-51 Pipeline Release (2010)

Page i

Executive Summary

This report documents the 2022 groundwater monitoring activities conducted at the Lateral K-51 Pipeline Release (2010) site, referred to hereinafter as the "Site". The Site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in Sections 34 and 35, Township 26 North, Range 6 West, in Rio Arriba County, New Mexico (NM).

On April 13, 2010, a release of natural gas condensate occurred from the Lateral K-51 pipeline. The initial site assessment identified concentrations of constituents of concern (COCs) in soil and groundwater above the applicable NM Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) closure criteria and the NM Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs). Delineation and initial excavation activities conducted between June 2010 and March 2012 identified additional concentrations of COCs above the applicable NM EMNRD OCD closure criteria for soils and above the NM WQCC GQSs for groundwater. During 2011, in-situ chemical oxidation (ISCO) was performed in the immediate area of the release.

Quarterly and semi-annual groundwater monitoring was conducted from 2012 through 2014 and 2015 through 2021, respectively. Groundwater samples collected during these sampling events exhibited concentrations of COCs above the WQCC standards.

The primary objective of the 2022 groundwater monitoring was to further evaluate the concentrations of COCs in groundwater and to monitor COC concentrations over time at the Site.

Findings based on these activities are as follows:

- The groundwater flow direction at the Site is generally towards the west-northwest, with an approximate average gradient of 0.008 feet per foot (ft/ft) across the Site.
- Benzene was reported at concentrations exceeding the NM WQCC GQS of 10 micrograms per liter (µg/L) (see footnote in report) in groundwater samples collected from monitoring well MW-19 during the May 2022 and November 2022 sampling events. The groundwater samples collected from the other monitoring wells sampled in 2022 did not exhibit COC concentrations above the applicable WQCC GQSs.
- Monitoring well MW-19 has exhibited relatively stable benzene concentrations since 2012.

Ensolum offers the following recommendations:

- Report the groundwater monitoring results to the NM EMNRD OCD.
- Continue semi-annual groundwater monitoring at the Site, limiting the sampling frequency of monitoring wells MW-3, MW-11, MW-12, and MW-13 to annually, as approved by the NM EMNRD OCD in an email dated June 8, 2020.
- Conduct aquifer testing, and when access allows, install a shallow recovery well upgradient of monitoring well MW-19 and repair or replace monitoring well MW-18, as described in the Stage 1 Abatement Plan and as approved by the NM EMNRD OCD in an email dated June 8, 2020.



Page ii

TABLE OF CONTENTS

	INTRODUCTION	
1.1	Site Description & Background	1
1.2	Project Objective	2
2.0	GROUNDWATER MONITORING	ว
2.1	Groundwater Laboratory Analytical Methods	3
2.2	Groundwater Flow Direction	
2.3	Groundwater Data Evaluation	3
3.0	FINDINGS	5
••••		
4.0	RECOMMENDATIONS	5
4.0		9
		_
5.0	STANDARDS OF CARE, LIMITATIONS, AND RELIANCE	5
5.0 5.1	Standard of Care	5
	STANDARDS OF CARE, LIMITATIONS, AND RELIANCE Standard of Care Limitations	5
5.1	Standard of Care	5 5

LIST OF APPENDICES

Appendix A –	Figures Figure 1: Topographic Map Figure 2: Site Vicinity Map Figure 3: Site Map Figure 4A: Groundwater Gradient Map (May 2022) Figure 4B: Groundwater Gradient Map (November 2022) Figure 5A: Groundwater Quality Standard (GQS) Exceedance Zone Map (May 2022) Figure 5B: Groundwater Quality Standard (GQS) Exceedance Zone Map (November 2022)
Appendix B –	Regulatory Correspondence

- Appendix C Tables Table 1: Groundwater Analytical Summary Table 2: Groundwater Elevations
- Appendix D Laboratory Data Sheets & Chain of Custody Documentation
- Appendix E Benzene Concentration Chart



1.0 INTRODUCTION

This report describes the groundwater monitoring activities conducted at the Lateral K-51 Pipeline Release (2010) site, referred to hereinafter as the "Site".

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)			
Site Name:	Lateral K-51 Pipeline Release (2010)			
NM EMNRD OCD Incident ID No.	nAUTOfAB000318			
Location:	36.4465° North, 107.4461° West Unit Letter H of Section 34 and Unit Letter E of Section 35, Township 26 North, Range 6 West Rio Arriba County, New Mexico			
Property:	United States (US) Bureau of Land Management (BLM) and Private Land			
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)			

1.1 Site Description & Background

On April 13, 2010, an estimated ten barrels of natural gas condensate were released from the Enterprise Lateral K-51 pipeline. The pipeline was subsequently repaired, and remediation activities were initiated to remove hydrocarbon affected soils. Souder, Miller and Associates (SMA) collected confirmation soil samples and one groundwater sample from the final excavation. The excavation was then backfilled with unaffected soils. Confirmation soil samples collected from the excavation exhibited concentrations of constituents of concern (COCs) above the applicable EMNRD OCD closure criteria for soils. The groundwater sample exhibited concentrations of COCs above the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs) for groundwater.

During June 2010, eight soil borings (BH-1 through BH-8) were advanced by LT Environmental (LTE). Four of the soil borings were completed as groundwater monitoring wells (MW-1 through MW-4). Analytical results from soil samples collected immediately adjacent to the release and near the groundwater interface (BH-1) indicated COC concentrations above the applicable New Mexico EMNRD OCD closure criteria. Analysis of groundwater samples collected from monitoring wells MW-1 through MW-4 indicated COC concentrations above the New Mexico WQCC GQSs (*Site Investigation Report*, LTE, August 9, 2010).

During April 2011, nine soil borings/monitoring wells (SB-9, SB-10, MW-11 through MW-14, SB-15, MW-16, and MW-17) were advanced by Southwest Geoscience (SWG) to further evaluate the extent of dissolved phase COCs in groundwater. Additionally, 15 injection points were installed to facilitate the proposed in-situ chemical oxidation (ISCO) of the COCs utilizing a hydrogen peroxide solution. ISCO activities were performed during May 2011 (*Supplemental Site Investigation and Corrective Action Report*, SWG, October 5, 2011). Based on the distribution of COCs in groundwater, it appears that a former drip valve, tank, or pit may have also provided a historic source of petroleum hydrocarbon impact to groundwater (New Mexico EMNRD OCD reference 3RP-206, *El Paso Natural Gas, Final Pit Closure*) in the vicinity of monitoring well MW-14.

During March 2012, three additional soil borings/monitoring wells (MW-18, MW-19, and MW-20) were advanced near and downgradient of the historic release area to further evaluate the extent of COCs in groundwater (*Supplemental Site Investigation & Corrective Action Work Plan*, SWG,



April 23, 2012). Soil boring/monitoring well MW-18 was advanced to the west of the presumed location of the historic release, and soil borings/monitoring wells MW-19 and MW-20 were advanced to the north and northwest of the presumed location of the historic release.

Quarterly and semi-annual groundwater monitoring was conducted from 2012 through 2014 and 2015 through 2018, respectively. During February 2019, Enterprise assigned management of the project to Ensolum, LLC (Ensolum).

During May of 2019, Enterprise submitted a revised Stage 1 Abatement Plan for this Site to the New Mexico EMNRD OCD (*Revised Lateral K-51 Pipeline Release (2010) Stage 1 Abatement Plan*, Ensolum, May 22, 2019). The New Mexico EMNRD OCD has not approved the plan, and Enterprise has resumed semi-annual groundwater monitoring of the Site.

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to oil and gas releases, the New Mexico EMNRD OCD references 19.15.29 New Mexico Administrative Code (NMAC) *Releases*, which establishes investigation and abatement action requirements for sites that are subject to reporting and/or corrective action. Additionally, the New Mexico EMNRD OCD utilizes the New Mexico WQCC GQS (20.6.2 NMAC *Ground and Surface Water Protection*) to evaluate groundwater conditions.¹

The Site location is depicted on **Figure 1** of **Appendix A** which was reproduced from a portion of a United States Geological Survey (USGS) 7.5-minute series topographic map. A **Site Vicinity Map**, created from an aerial photograph, is provided as **Figure 2**, and a **Site Map**, which indicates the approximate locations of the monitoring wells and previous soil boring locations in relation to pertinent structures and general Site boundaries, is included as **Figure 3** of **Appendix A**.

1.2 **Project Objective**

The objective of the groundwater monitoring was to further evaluate groundwater quality at the Site and evaluate natural attenuation of COC concentrations over time.

2.0 GROUNDWATER MONITORING

Ensolum conducted groundwater sampling events during May 2022 and November 2022. The groundwater sampling program consisted of the collection of one groundwater sample from each of the viable monitoring wells at the Site. Monitoring well MW-18 appears to be obstructed (silted in or collapsed) and was not sampled during either sampling event. On June 8, 2020, the New Mexico EMNRD OCD approved a request to reduce the sampling frequency for monitoring wells MW-3 and MW-11 through MW-13 to annually. Therefore, only eight monitoring wells were sampled during the November 2022 sampling event. The New Mexico EMNRD OCD was notified of the sampling events although no representative was present during the sampling activities. Regulatory correspondence is provided in **Appendix B**.

Ensolum's groundwater sampling program consisted of the following:

- Prior to sample collection, Ensolum gauged the depth to fluids in each monitoring well using an interface probe capable of detecting non-aqueous phase liquid (NAPL).
- Each designated monitoring well was sampled utilizing micro-purge low-flow sampling



¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to this legacy site that predates the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

techniques. Following the completion of the micro-purge process, the groundwater sample was collected.

- Low-flow or low-stress sampling refers to sampling methods that are intended to minimize the stress that is imparted to the formation pore water in the vicinity of the well screen. Water level drawdown provides the best indication of the stress that is imparted by a given flow rate for a given hydrological situation. Pumping rates of 0.1 to 0.5 liters per minute (L/min) are typically maintained during the low-flow/low-stress sampling activities, using dedicated or decontaminated sampling equipment.
- During low-flow sampling, the groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are typically observed every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for at least three consecutive readings.
- Groundwater samples were collected in laboratory-supplied containers (pre-preserved with mercuric chloride (HgCl₂)), labeled, and sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The groundwater samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico under proper chain-of-custody procedures.

2.1 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during the two sampling events were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing US Environmental Protection Agency (EPA) SW-846 Method #8021 or #8260.

A summary of the analytes, sample matrix, sample frequency and EPA-approved analytical methods are presented in the following table.

Analyte	Sample Type	No. of Samples (May/Nov)	Method
BTEX	Groundwater	12/8	SW-846 8021 or 8260

The laboratory analytical results are summarized in **Table 1** in **Appendix C**. The executed chainof-custody forms and laboratory data sheets are provided in **Appendix D**.

2.2 Groundwater Flow Direction

The groundwater flow direction at the Site generally trends toward the west-northwest. The calculated gradient during the 2022 monitoring events averaged approximately 0.008 feet per foot (ft/ft) across the Site. Groundwater elevation data collected during the 2022 gauging events are presented in **Table 2** (**Appendix C**). Groundwater gradient maps for the 2022 gauging events are included as **Figure 4A** and **Figure 4B** (**Appendix A**).

2.3 Groundwater Data Evaluation

Ensolum compared the BTEX laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the groundwater samples collected from



monitoring wells during the 2022 groundwater sampling events to the New Mexico WQCC GQSs.¹ The results of the analyses are summarized in **Table 1** of **Appendix C**. Groundwater Quality Standard Exceedance Zone maps are provided as **Figure 5A** and **Figure 5B** of **Appendix A**.

May 2022

- The May 2022 analytical result for monitoring well MW-19 indicates a benzene concentration
 of 160 micrograms per liter (µg/L), which exceeds the WQCC GQS of 10 µg/L.¹ The analytical
 results for the other sampled monitoring wells do not indicate benzene concentrations above
 the laboratory PQLs/RLs, which are below the WQCC GQS of 10 µg/L.¹
- The May 2022 analytical results for the sampled monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μ g/L.¹
- The May 2022 analytical result for monitoring well MW-19 indicates an ethylbenzene concentration of 54 µg/L, which is below the WQCC GQS of 750 µg/L.¹ The analytical results for the other sampled monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 µg/L.¹
- The May 2022 analytical results for monitoring wells MW-4 and MW-19 indicate total xylene concentrations of 3.6 µg/L and 29 µg/L, respectively, which are below the WQCC GQS of 620 µg/L.¹ The analytical results for the other sampled monitoring wells do not indicate total xylene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 µg/L.¹
- No data qualifier flags are associated with the May 2022 analytical results.

November 2022

- The November 2022 analytical result for monitoring well MW-19 indicates a benzene concentration of 78 μg/L, which exceeds the WQCC GQS of 10 μg/L.¹ The analytical results for the other sampled monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 10 μg/L.¹
- The November 2022 analytical results for the sampled monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μ g/L.¹
- The November 2022 analytical result for monitoring well MW-19 indicates an ethylbenzene concentration of 34 µg/L, which is below the WQCC GQS of 750 µg/L.¹ The analytical results for the other sampled monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 µg/L.¹
- The November 2022 analytical result for monitoring well MW-19 indicates a total xylenes concentration of 3.2 µg/L, which is below the WQCC GQS of 620 µg/L.¹ The analytical results for the other sampled monitoring wells do not indicate total xylene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 µg/L.¹
- No data qualifier flags are associated with the November 2022 analytical results.



¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to this legacy site that predates the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

3.0 FINDINGS

Based on the evaluation of the analytical results from the groundwater monitoring activities, Ensolum presents the following findings:

- The groundwater flow direction at the Site is generally towards the west-northwest, with an approximate gradient of 0.008 ft/ft across the Site.
- Benzene was reported at concentrations exceeding the New Mexico WQCC GQS of 10 µg/L in groundwater samples collected from monitoring well MW-19 during the May 2022 and November 2022 sampling events.¹ The groundwater samples collected from the other sampled monitoring wells in 2022 do not exhibit COC concentrations above the applicable WQCC GQSs.¹
- Monitoring well MW-19 has exhibited relatively stable benzene concentrations since 2012 as depicted in the chart provided in **Appendix E**.

4.0 **RECOMMENDATIONS**

Based on the results of the groundwater monitoring activities, Ensolum has the following recommendations:

- Report the groundwater monitoring data to the New Mexico EMNRD OCD.
- Continue semi-annual groundwater monitoring at the Site, limiting the sampling frequency of monitoring wells MW-3, MW-11, MW-12, and MW-13 to annually, as approved by the New Mexico EMNRD OCD in an email dated June 8, 2020.
- Conduct aquifer testing, and when access allows, install a shallow recovery well upgradient of monitoring well MW-19 and repair or replace monitoring well MW-18, as described in the Stage 1 Abatement Plan and as approved by the New Mexico EMNRD OCD in an email dated June 8, 2020.

5.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

5.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

5.2 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, and it should be noted that this information is subject to change over time. Certain indicators



¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to this legacy site that predates the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

5.3 Reliance

This report has been prepared for the exclusive use of Enterprise, 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 Enterprise and Ensolum. 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 Closure Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



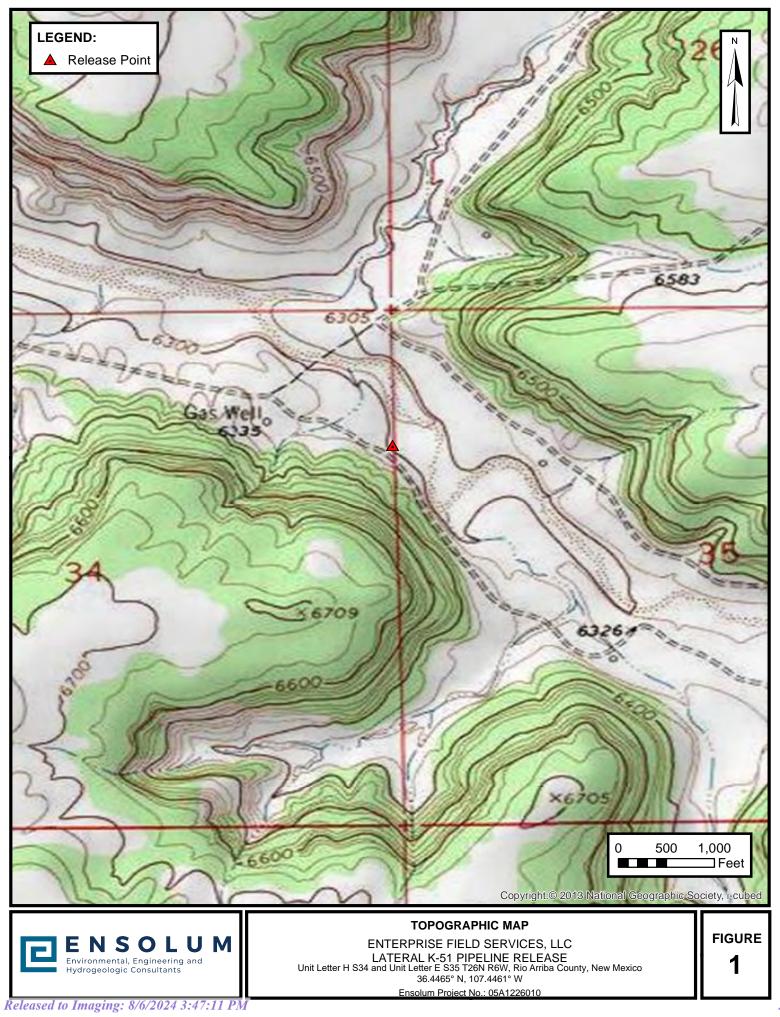


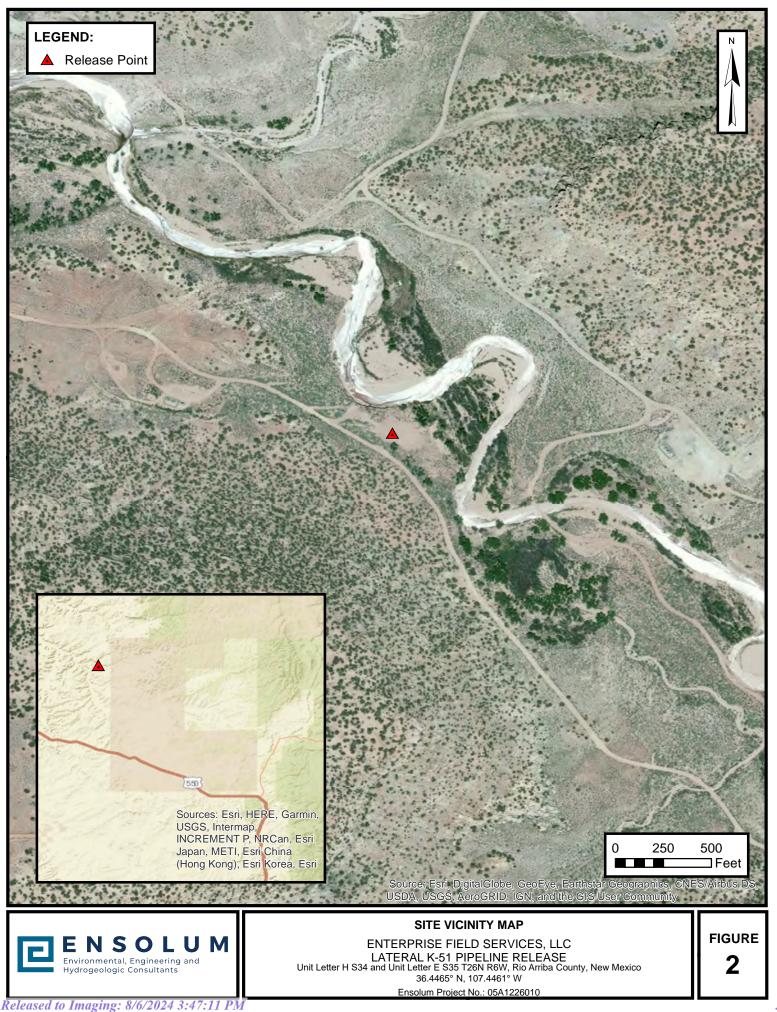
APPENDIX A

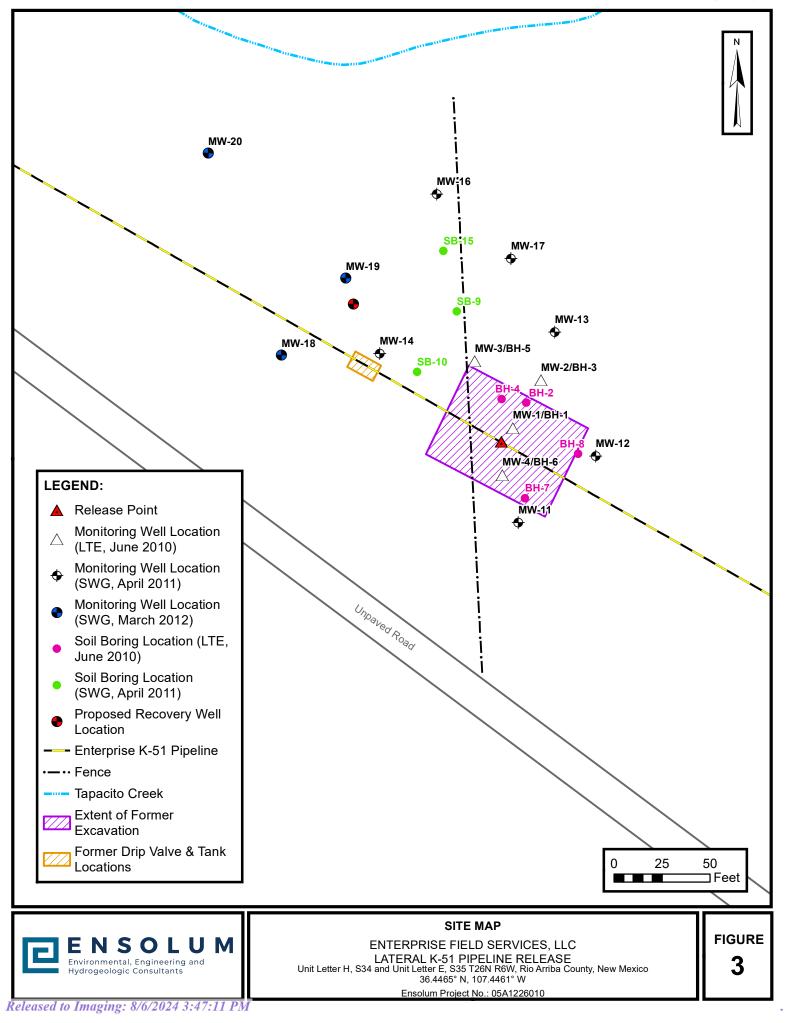
Figures

Released to Imaging: 8/6/2024 3:47:11 PM

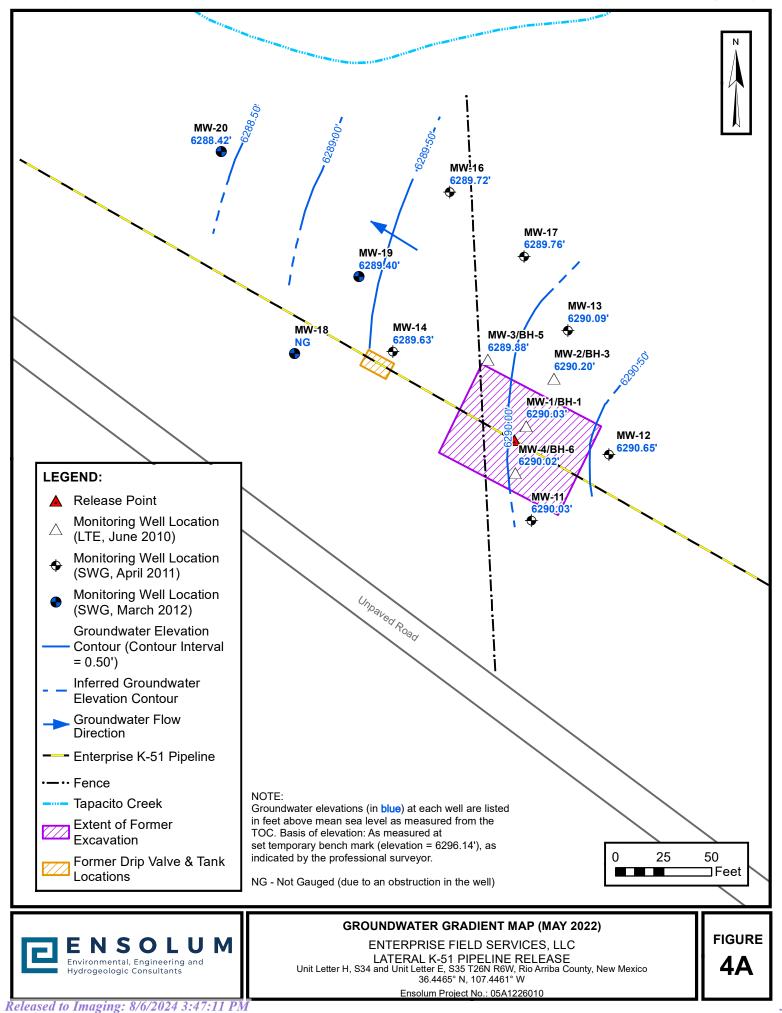
Received by OCD: 7/3/2024 12:33:21 PM



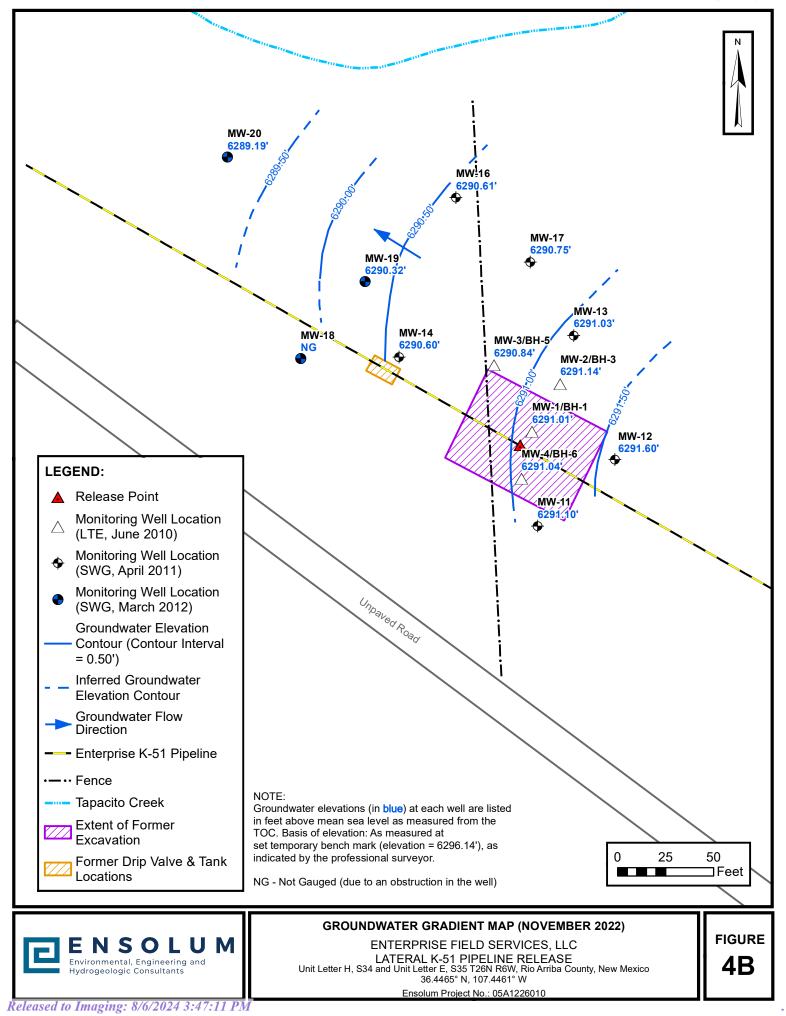




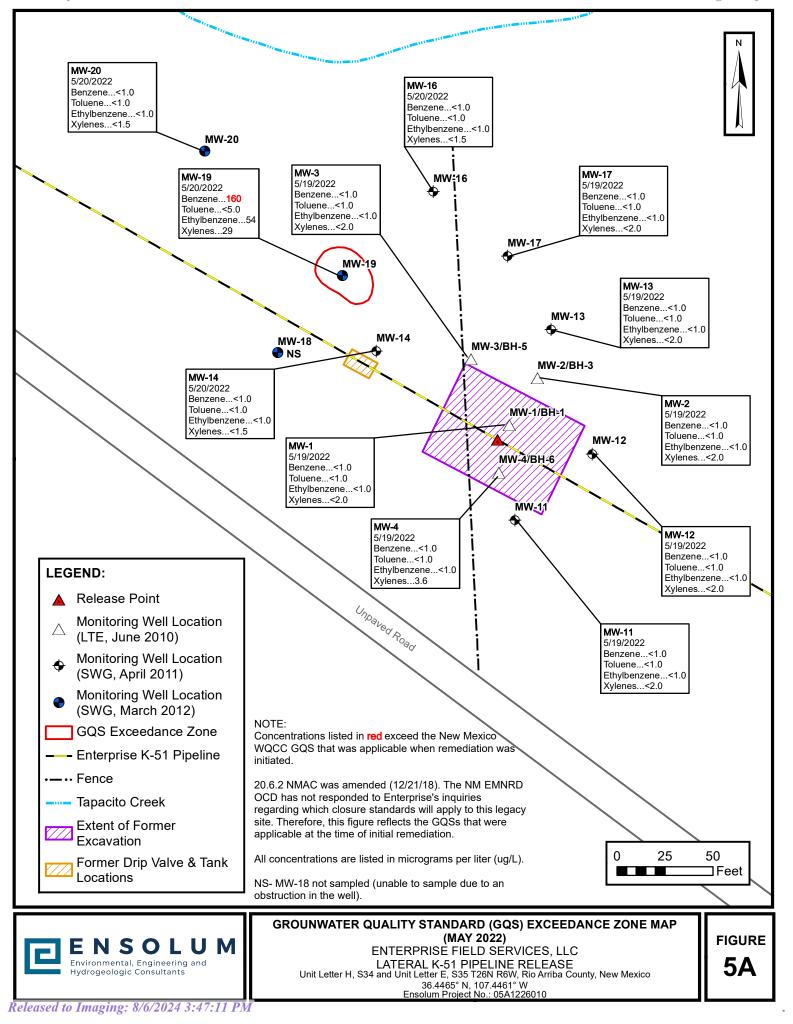
Received by OCD: 7/3/2024 12:33:21 PM



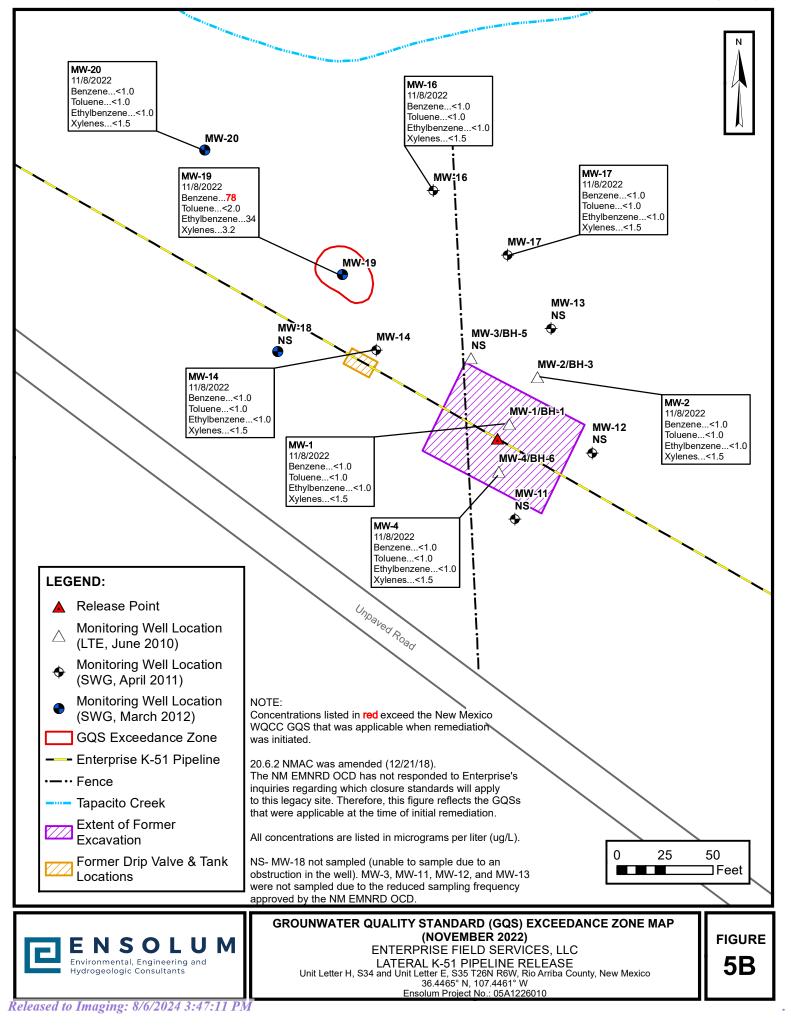
Received by OCD: 7/3/2024 12:33:21 PM



Received by OCD: 7/3/2024 12:33:21 PM



Received by OCD: 7/3/2024 12:33:21 PM





APPENDIX B

Regulatory Correspondence

From:	Kyle Summers
То:	Landon Daniell; Ranee Deechilly
Subject:	FW: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-344 - Section 34/35 T26N R6W; 36.4465, -107.4461
Date:	Monday, October 31, 2022 12:18:35 PM
Attachments:	image003.png image004.png image005.png

-	
	3

Kyle Summers Principal 903-821-5603 Ensolum, LLC in f

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, October 31, 2022 10:24 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; Kyle Summers
<ksummers@ensolum.com>; Miller, Greg <GEMiller@eprod.com>
Subject: RE: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-344
- Section 34/35 T26N R6W; 36.4465, -107.4461

[**EXTERNAL EMAIL**]

Nelson,

This email is a notification that Enterprise has scheduled groundwater monitoring and sampling activities at the Lateral K-51 release site to begin Thursday, November 3, 2022. Field work is anticipated to take one to two working days. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Velez, Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>
Sent: Friday, May 13, 2022 8:06 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Miller, Greg <<u>GEMiller@eprod.com</u>>; Kyle Summers
<<u>ksummers@ensolum.com</u>>
Subject: RE: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-344

- Section 34/35 T26N R6W; 36.4465, -107.4461

[Use caution with links/attachments] Tom,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please proceed with your sampling. For whatever reason, the sample collection timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of the rescheduling may result in the sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

If you have any questions, please contact me via email at your convenience.

Thanks again

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | <u>nelson.velez@state.nm.us</u>

Hrs.: 7:00-11:00 am & 12:00-3:30 pm Mon.-Thur. 7:00-11:00 am & 12:00-4:00 pm Fri.

From: Long, Thomas <<u>tjlong@eprod.com</u>>

Sent: Friday, May 13, 2022 7:52 AM

To: Velez, Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>

Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Miller, Greg <<u>GEMiller@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>

Subject: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-344 - Section 34/35 T26N R6W; 36.4465, -107.4461

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

This email is a notification that Enterprise has scheduled groundwater monitoring and sampling activities at the Lateral K-51 release site to begin Thursday, May 19, 2022. Field work is anticipated to take one working day. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) <u>tjlong@eprod.com</u>



From: Long, Thomas
Sent: Thursday, November 18, 2021 8:12 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Subject: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-344 - Section 34/35 T26N R6W; 36.4465, -107.4461

Cory,

This email is to notify you that Enterprise has scheduled groundwater monitoring and sampling activities at the Lateral K-51 release site to begin Monday, November 22, 2021. Field work is anticipated to take one working day. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tilong@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



APPENDIX C

Tables

Released to Imaging: 8/6/2024 3:47:11 PM

			TABLE	1					
				Release (2010)					
		GROUNDW	ATER ANALY	TICAL SUMMAR	1				
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH		
Sample I.D.		(μg/L)	(μg/L)	(µg/L)	(μg/L)	GRO	DRO		
						(mg/L)	(mg/L)		
	ter Quality Control	404			A	NE			
	roundwater Quality dards	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE		
		SMA	Sample - Oper	n Excavation			•		
Excavation	4.21.10	7,000	13,000	540	5,200	NA	NA		
Monitoring Wells Installed by LTE									
	6.21.10	8,400	1,300	560	4,200	NA	NA		
	9.24.10	2,300	28	200	520	8.4	<1.0		
	4.21.11	430	<20	120	60	2.1	<1.0		
	6.21.11	820	370	33	140	5.1	130		
	9.22.11	690	1,200	120	1,200	8.9	30		
	12.13.11	260	250	54	650	3.4	<1.0		
	3.20.12	280	230	94	550	3.5	<1.0		
	6.19.12	300	<5.0	81	96	1.7	<1.0		
	9.20.12*	45	3.4	15	23	0.45	<1.0		
	12.17.12	34	<1.0	11	16	0.19	<1.0		
	3.25.13	41	<1.0	19	32	0.27	<1.0		
	6.27.13	24	<1.0	<1.0	36	0.22	<1.0		
	10.22.13	39	<1.0	24	13	0.23	<1.0		
	12.16.13	10	<1.0	14	11	0.18	<1.0		
	4.18.14	23	<1.0	28	86	0.38	1.1		
MW-1	11.6.14	32	<1.0	27	61	NA	NA		
10100-1	5.29.15	11	<1.0	21	55	NA	NA		
	12.1.15	5.3	<1.0	4.0	6.2	NA	NA		
	5.26.16	<1.0	<1.0	<1.0	<2.0	NA	NA		
	11.8.16	17	<1.0	1.6	2.4	NA	NA		
	5.30.17	4.1	<1.0	<1.0	<1.5	NA	NA		
	12.07.17	2.8	<1.0	2.0	<1.5	NA	NA		
	5.30.18	3.0	<1.0	<1.0	2.2	NA	NA		
	11.2.18	1.2	<1.0	<1.0	<1.5	NA	NA		
	9.25.19	1.8	<1.0	<1.0	<2.0	NA	NA		
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA		
	5.8.20	<1.0	<1.0	<1.0	<1.5	NA	NA		
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA		
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA		
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA		
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA		
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA		

			TABLE	1			
				Release (2010)			
		GROUNDW	ATER ANALY	TICAL SUMMAR	/		
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
Sample I.D.		(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
Commmission Gr	er Quality Control oundwater Quality dards	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
	6.21.10	200	53	14	96	NA	NA
	9.24.10	2.3	<1.0	<1.0	<2.0	<0.050	<1.0
	4.21.11	3.3	<1.0	<1.0	<2.0	0.065	<1.0
	6.21.11	2.2	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-2	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
1010 0-2	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.1.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA

			TABLE	1			
				Release (2010)			
		GROUNDW	ATER ANALY	TICAL SUMMAR	(
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
Sample I.D.		(μg/L)	(μg/L)	(µg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
	6.21.10	640	57	72	1,000	NA	NA
	9.24.10	150	<1.0	16	28	0.48	<1.0
	4.21.11	52	<1.0	17	10	0.25	<1.0
	6.21.11	62	14	13	160	0.67	<1.0
	9.22.11	3	<1.0	8.7	<2.0	0.066	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	1.3	<1.0	1.9	<2.0	<0.050	<1.0
	6.19.12	3.1	<1.0	1.4	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-3	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
10100-5	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.30.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.07.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21 ^B	NS	NS	NS	NS	NS	NS
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.22 ^B	NS	NS	NS	NS	NS	NS

			TABLE	1			
				Release (2010)			
		GROUNDW	ATER ANALY	TICAL SUMMAR	í		
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	ТРН
Sample I.D.		(μg/L)	(μg/L)	(µg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
	6.21.10	3,600	10,000	600	6,600	NA	NA
	9.24.10	870	870	260	1,600	12	1
	4.21.11	670	<20	520	790	6.3	<1.0
	6.21.11	17	22	36	77	0.64	1.1
	9.22.11	62	140	220	820	3.8	1.2
	12.13.11	84	<20	430	490	2.6	<1.0
	3.20.12	36	<20	1,100	1,400	6.5	<1.0
	6.19.12	37	<5.0	250	350	2.2	<1.0
	9.19.12	9.4	1.4	74	97	0.84	<1.0
	12.17.12	<1.0	<1.0	6.2	9.7	0.12	<1.0
	3.25.13	3.2	<1.0	51	55	1.0	<1.0
	6.27.13	3.9	<1.0	61	60	1.3	<1.0
	10.22.13	<1.0	<1.0	12	3.8	0.13	<1.0
	12.13.13	<1.0	<1.0	16	6.2	0.4	<1.0
	4.17.14	<1.0	<1.0	76	14	0.78	<1.0
MW-4	11.6.14	<1.0	<1.0	11	2.9	NA	NA
10100-4	5.29.15	<1.0	<1.0	24	6.1	NA	NA
	12.1.15	<1.0	<1.0	2.5	2.1	NA	NA
	5.25.16	<1.0	<1.0	7.4	<2.0	NA	NA
	11.8.16	2.4	<1.0	4.8	2.1	NA	NA
	5.26.17	<1.0	<1.0	3.9	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.1.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	2.9	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.22	<1.0	<1.0	<1.0	3.6	NA	NA
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA

			TABLE	1			
				Release (2010)			
		GROUNDW	ATER ANALY	TICAL SUMMAR	Y		
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
Sample I.D.		(μg/L)	(μg/L)	(µg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
Commmission G	iter Quality Control Froundwater Quality ndards	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
	Monitoring We	ells Installed b	y Apex TITAN	(formerly South	west Geoscier	ıce)	
	4.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.29.15	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-11	11.30.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21 ^B	NS	NS	NS	NS	NS	NS
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.22 ^B	NS	NS	NS	NS	NS	NS

			TABLE	1			
				Release (2010)			
		GROUNDW	ATER ANALY	TICAL SUMMARY	(
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
Sample I.D.		(μg/L)	(μg/L)	(µg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
Commmission Gr	er Quality Control oundwater Quality dards	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
	4.21.11	1.9	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	4.6	<1.0	<1.0	<2.0	0.063	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	1.7	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-12	5.29.15	<1.0	<1.0	<1.0	<2.0	NA	NA
10100-12	11.30.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21 ^B	NS	NS	NS	NS	NS	NS
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.22 ^B	NS	NS	NS	NS	NS	NS

			TABLE				
				Release (2010) TICAL SUMMAR	(
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	ТРН
Sample I.D.		(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
Commmission Gr	er Quality Control oundwater Quality dards	10 ^A	750 ^A	750 ⁴	620 ^A	NE	NE
	4.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.20.12	NS	NS	NS	NS	NS	NS
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.12.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-13	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
10100-13	11.30.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.25.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21 ^B	NS	NS	NS	NS	NS	NS
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.21 ^B	NS	NS	NS	NS	NS	NS

	TABLE 1									
				Release (2010) TICAL SUMMAR	,					
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	ТРН			
Sample I.D.	Dute	(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO			
		(1-9)	(1-3)	(1-9)	(1-9)	(mg/L)	(mg/L)			
Commmission Gr	New Mexico Water Quality Control Commmission Groundwater Quality Standards		750 ^A	750 ^A	620 ^A	NE	NE			
	4.21.11	2,800	<100	280	720	8.7	<1.0			
	6.21.11	470	<10	37	210	1.9	<1.0			
	9.22.11	540	<10	100	36	1.7	<1.0			
	12.13.11	220	<10	110	<20	1.0	<1.0			
	3.20.12	660	<5.0	240	15	2.9	<1.0			
	6.19.12	660	<5.0	300	100	3.4	<1.0			
	9.20.12*	7.3	<1.0	<1.0	<2.0	0.1	<1.0			
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0			
	3.25.13	<1.0	<1.0	1.6	<2.0	<0.050	<1.0			
	6.27.13	34	4.4	30	130	0.56	1.4			
	10.22.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0			
	12.16.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0			
	4.18.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0			
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA			
MW-14	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA			
10100-14	11.30.15	<1.0	<1.0	<1.0	<2.0	NA	NA			
	5.26.16	<1.0	<1.0	<1.0	<2.0	NA	NA			
	11.7.16	<1.0	<1.0	<1.0	<2.0	NA	NA			
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA			
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA			
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA			
	11.1.18	<1.0	<1.0	<1.0	<1.5	NA	NA			
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA			
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA			
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA			
	11.12.20	<1.0	<1.0	<1.0	<1.5	NA	NA			
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA			
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA			
	5.20.22	<1.0	<1.0	<1.0	<1.5	NA	NA			
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA			

			TABLE				
				Release (2010) TICAL SUMMAR	(
	Date	Benzene	Toluene	Xylenes	ТРН	ТРН	
Sample I.D.		(μg/L)	(μg/L)	Ethylbenzene (μg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
Commmission Gr	er Quality Control oundwater Quality dards	10 ^A	750 ^A	750 ⁴	620 ^A	NE	NE
	4.21.11	4.4	<2.0	<2.0	<4.0	<0.10	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	0.065	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	0.12	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	3.1	<1.0	2.1	14	0.19	<1.0
	3.25.13	<1.0	<1.0	<1.0	<1.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.12.13	1	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	1.4	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	1.2	<1.0	<1.0	<2.0	NA	NA
MW-16	5.29.15	3.0	<1.0	<1.0	<2.0	NA	NA
10100-10	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	2.2	<1.0	<1.0	<2.0	NA	NA
	11.7.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.30.17	2.1	<1.0	<1.0	<1.5	NA	NA
	12.7.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.2.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.25.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.12.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.20.22	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA

			TABLE	1			
				Release (2010)			
		GROUNDW	ATER ANALY	TICAL SUMMAR	(1	
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
Sample I.D.		(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
Commmission Gr	er Quality Control oundwater Quality dards	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
	4.21.11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	6.21.11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.12.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-17	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
10100-17	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.7.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.7.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.1.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.25.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA

			TABLE	1			
				Release (2010)			
		GROUNDW	ATER ANALY		/		
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
Sample I.D.		(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
Otan	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.20.12*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<2.0	<2.0	<2.0	<4.0	<0.000	<1.0
	3.25.13	NS	NS	NS	NS	NS	NS
	6.27.13	NS	NS	NS	NS	NS	NS
	10.21.13	NS	NS	NS	NS	NS	NS
	12.12.13	NS	NS	NS	NS	NS	NS
	4.17.14	NS	NS	NS	NS	NS	NS
	11.6.14	NS	NS	NS	NS	NS	NS
	5.29.15	NS	NS	NS	NS	NS	NS
	11.30.15	NS	NS	NS	NS	NS	NS
	5.25.16	NS	NS	NS	NS	NS	NS
MW-18	11.7.16	NS	NS	NS	NS	NS	NS
	5.26.17	NS	NS	NS	NS	NS	NS
	12.07.17	NS	NS	NS	NS	NS	NS
	5.30.18	NS	NS	NS	NS	NS	NS
	11.1.18	NS	NS	NS	NS	NS	NS
	9.20.19	NS	NS	NS	NS	NS	NS
	1.31.20	NS	NS	NS	NS	NS	NS
	5.8.20	NS	NS	NS	NS	NS	NS
	11.11.20	NS	NS	NS	NS	NS	NS
	5.28.21	NS	NS	NS	NS	NS	NS
	11.22.21	NS	NS	NS	NS	NS	NS
	5.19.22	NS	NS	NS	NS	NS	NS
	11.8.22	NS	NS	NS	NS	NS	NS

			TABLE				
				Release (2010) TICAL SUMMAR)	ſ		
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	ТРН
Sample I.D.		(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
Now Maxiaa Wat	ior Quality Control					(mg/L)	(mg/L)
Commmission Gr	New Mexico Water Quality Control Commmission Groundwater Quality Standards		750 ^A	750 ^A	620 ^A	NE	NE
	3.20.12	250	56	310	3,900	16	5.3
	6.19.12	NAPL	NAPL	NAPL	NAPL	NA	NA
	9.19.12	NAPL	NAPL	NAPL	NAPL	NA	NA
	12.17.12	180	<5.0	5.4	23	2.2	2.6
	3.25.13	160	<5.0	17	<10	1.5	1.4
	6.27.13	390	<1.0	79	66	2.7	5.9
	10.22.13	140	<1.0	<1.0	<2.0	0.51	2.1
	12.16.13	160	<1.0	37	12	1.4	4.2
	4.18.14	230	<1.0	41	53	2.2	10
	11.6.14	260	<1.0	75	42	NA	NA
	5.29.15	190	<1.0	7.2	81	NA	NA
	12.1.15	210	<1.0	75	23	NA	NA
MW-19	5.26.16	260	<1.0	86	340	NA	NA
10100 10	11.8.16	270	<1.0	80	190	NA	NA
	5.30.17	270	<1.0	88	640	NA	NA
	12.7.17	180	<1.0	70	150	NA	NA
	5.31.18	250	<10	83	260	NA	NA
	11.2.18	230	<5.0	62	280	NA	NA
	9.25.19	340	<5.0	88	380	NA	NA
	2.4.20	100	<5.0	51	28	NA	NA
	5.11.20	97	<5.0	54	15	NA	NA
	11.12.20	240	<2.0	80	50	NA	NA
	5.28.21	120	<5.0	63	19	NA	NA
	11.22.21	160	<5.0	85	14	NA	NA
	5.20.22	160	<5.0	54	29	NA	NA
	11.8.22	78	<2.0	34	3.2	NA	NA

	TABLE 1 Lateral K-51 Pipeline Release (2010) GROUNDWATER ANALYTICAL SUMMARY											
Sample I.D.	Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (μg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)					
New Mexico Water Quality Control Commmission Groundwater Quality Standards		10 ^A	750 ^A	750 ^A	620 ^A	NE	NE					
	3.20.12	35	<1.0	1.1	3.3	0.14	<1.0					
	6.19.12	3.4	<1.0	<1.0	<2.0	<0.050	<1.0					
	9.20.12*	4.7	<1.0	<1.0	<2.0	<0.050	<1.0					
	12.17.12*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0					
	3.25.13*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0					
	6.27.13*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0					
	10.22.13*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0					
	12.16.13*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0					
	4.18.14*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0					
	11.6.14*	<1.0	<1.0	<1.0	<2.0	NA	NA					
	5.29.15	<1.0	<1.0	<1.0	<2.0	NA	NA					
	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA					
MW-20	5.26.16	<1.0	<1.0	<1.0	<2.0	NA	NA					
10100-20	11.7.16	<1.0	<1.0	<1.0	<2.0	NA	NA					
	5.30.17	<1.0	<1.0	<1.0	<1.5	NA	NA					
	12.7.17	<1.0	<1.0	<1.0	<1.5	NA	NA					
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA					
	11.2.18	<1.0	<1.0	<1.0	<1.5	NA	NA					
	9.25.19	<1.0	<1.0	<1.0	<2.0	NA	NA					
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA					
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA					
	11.12.20	<1.0	<1.0	<1.0	<1.5	NA	NA					
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA					
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA					
	5.20.22	<1.0	<1.0	<1.0	<1.5	NA	NA					
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA					

Note: Concentrations in **bold** and yellow exceed the WQCC GQS that was applicable when remediation was initiated.

^A = NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to this legacy site. Therefore, this table reflects the groundwater quality standards that were applicable at the time of initial remediation.

^B = This monitoring well was not sampled during this sampling event. On June 8, 2020 the New Mexico EMNRD OCD approved Enterprise's request to reduce sampling events in MW-3, MW-11, MW-12, and MW-13 to annual events.

* = Monitoring well purged/sampled utilizing disposable bailer during this event

μg/L= micrograms per liter

- mg/L= milligrams per liter
- NA = Not Analyzed
- NS = Not Sampled

NE = Not Established

NAPL = Non-aqueous phase liquid

* = piezometer well was replaced with associated monitoring well

NAPL = Non-aqueous phase liquid

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

				TABLE 2				
				1 Pipeline Rel				
			GROUN	IDWATER ELEV	ATIONS			
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
				Thickness			(feet AMCL)	
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	-							
	4.21.11	ND	11.80	ND				6289.09
	6.21.11	ND	12.16	ND				6288.73
	9.22.11	ND	12.92	ND				6287.97
	12.13.11	ND	12.45	ND				6288.44
	3.20.12	ND	12.13	ND				6288.76
	6.19.12	ND	12.76	ND				6288.13
	9.19.12	ND	13.10	ND				6287.79
	12.17.12	ND	12.33	ND				6288.56
	3.15.13	ND	11.88	ND				6289.01
	6.27.13	ND	12.61	ND			6288.28	
	10.22.13	ND	11.71	ND			6289.18	
	12.12.13	ND	11.35	ND				6289.54
	4.18.14	ND	11.04	ND				6289.85
	11.6.14	ND	11.56	ND				6289.33
MW-1	5.28.15	ND	10.86	ND	17.71	7.71-17.71	6300.89	6290.03
10100-1	11.30.15	ND	10.90	ND	17.71	7.7 1-17.7 1	0000.00	6289.99
	5.25.16	ND	10.52	ND				6290.37
	11.07.16	ND	11.42	ND				6289.47
	5.26.17	ND	10.41	ND				6290.48
	12.06.17	ND	10.53	ND				6290.36
	5.30.18	ND	10.67	ND				6290.22
	11.01.18	ND	11.59	ND				6289.30
	9.20.19	ND	12.08	ND				6288.81
	1.31.20	ND	11.13 ND				6289.76	
	5.8.20	ND	10.81	ND				6290.08
	11.11.20	ND	11.55	ND				6289.34
	5.28.21	ND	10.92	ND				6289.97
	11.22.21	ND	11.69	ND				6289.20
	5.19.22	ND	10.86	ND				6290.03
	11.8.22	ND	9.88	ND				6291.01

				TABLE 2				
				1 Pipeline Rel				
			GROUN	DWATER ELEV	ATIONS			
Well I.D.	Date	Depth to	Depth to	Product	Total Depth of	Screen Interval	TOC Elevation	
		Product	Water	Thickness	Well			Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	4.21.11	ND	10.55	ND				6289.27
	6.21.11	ND	11.87	ND				6287.95
	9.22.11	ND	11.86	ND				6287.96
	12.13.11	ND	11.38	ND				6288.44
	3.20.12	ND	10.95	ND				6288.87
	6.19.12	ND	11.64	ND				6288.18
	9.19.12	ND	12.10	ND				6287.72
	12.17.12	ND	11.23	ND				6288.59
	3.15.13	ND	10.65	ND				6289.17
	6.27.13	ND	11.44	ND				6288.38
	10.21.13	ND	10.44	ND				6289.38
	12.12.13	ND	10.09	ND			6289.73	
	4.17.14	ND	9.73	ND				6290.09
	11.6.14	ND	10.33	ND				6289.49
MW-2	5.28.15	ND	9.61	ND	18.45	8.45-18.45	6299.82	6290.21
10100-2	11.30.15	ND	9.67	ND	10.45	0.40-10.40	0200.02	6290.15
	5.25.16	ND	9.34	ND				6290.48
	11.07.16	ND	10.24	ND				6289.58
	5.26.17	ND	9.23	ND				6290.59
	12.06.17	ND	9.33	ND				6290.49
	5.30.18	ND	9.46	ND				6290.36
	11.01.18	ND	10.43	ND				6289.39
	9.20.19	ND	10.95	ND				6288.87
	1.31.20	ND	9.91	ND				6289.91
	5.8.20	ND	9.55	ND				6290.27
	11.11.20	ND	10.35	ND				6289.47
	5.28.21	ND	9.68	ND				6290.14
	11.22.21	ND	10.53	ND				6289.29
	5.19.22	ND	9.62	ND				6290.20
	11.8.22	ND	8.68	ND				6291.14

				TABLE 2				
				1 Pipeline Rel				
			GROUN	DWATER ELEV	ATIONS			
Well I.D.	Date	Depth to Product	Depth to	Product	Total Depth of	Screen Interval	TOC Elevation	
			Water	Thickness	Well			Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	4.21.11	ND	11.30	ND				6288.92
	6.21.11	ND	11.64	ND				6288.58
	9.22.11	ND	12.45	ND				6287.77
	12.13.11	ND	11.89	ND				6288.33
	3.20.12	ND	11.60	ND				6288.62
	6.19.12	ND	12.22	ND				6288.00
	9.19.12	ND	12.53	ND				6287.69
	12.17.12	ND	11.75	ND				6288.47
	3.15.13	ND	11.37	ND				6288.85
	6.27.13	ND	12.06	ND				6288.16
	10.21.13	ND	11.12	ND				6289.10
	12.12.13	ND	10.84	ND			6289.38	
	4.17.14	ND	10.55	ND				6289.67
	11.6.14	ND	11.02	ND				6289.20
MW-3	5.28.15	ND	10.37	ND	18.39	8.39-18.39	6300.22	6289.85
	11.30.15	ND	10.40	ND	10.00	0.00 10.00	0000.22	6289.82
	5.25.16	ND	10.10	ND				6290.12
	11.07.16	ND	10.90	ND				6289.32
	5.26.17	ND	10.00	ND				6290.22
	12.06.17	ND	10.05	ND				6290.17
	5.30.18	ND	10.14	ND				6290.08
	11.01.18	ND	11.07	ND				6289.15
	9.20.19	ND	11.53	ND				6288.69
	1.31.20	ND	10.62	ND				6289.60
	5.11.20	ND	10.31	ND				6289.91
	11.11.20	ND	11.03	ND	1			6289.19
	5.28.21	ND	10.42	ND				6289.80
	11.22.21	ND	11.16	ND				6289.06
	5.19.22	ND	10.34	ND				6289.88
	11.8.22	ND	9.38	ND				6290.84

				TABLE 2				
				1 Pipeline Rel				
			GROUN	DWATER ELEV	ATIONS			
Well I.D.	Date	Depth to	Depth to	Product Thickness	Total Depth of	Screen Interval	TOC Elevation	
		Product	Water	Inickness	Well			Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	4.21.11	ND	11.90	ND				6289.01
	6.21.11	ND	12.18	ND				6288.73
	9.22.11	ND	12.90	ND				6288.01
	12.13.11	ND	12.41	ND				6288.50
	3.20.12	ND	12.45	ND				6288.46
	6.19.12	ND	12.72	ND				6288.19
	9.19.12	ND	13.09	ND				6287.82
	12.17.12	ND	12.33	ND				6288.58
	3.15.13	ND	11.85	ND				6289.06
	6.27.13	ND	12.60	ND				6288.31
	10.22.13	ND	11.74	ND				6289.17
	12.12.13	ND	11.37	ND				6289.54
	4.17.14	ND	11.05	ND				6289.86
	11.6.14	ND	11.58	ND				6289.33
MW-4	5.28.15	ND	10.91	ND	19.47	9.47-19.47	6300.91	6290.00
	11.30.15	ND	10.94	ND	10.47	0.47 10.47	0000.01	6289.97
	5.25.16	ND	10.59	ND				6290.32
	11.07.16	ND	11.43	ND				6289.48
	5.26.17	ND	10.47	ND				6290.44
	12.06.17	ND	10.60	ND				6290.31
	5.30.18	ND	10.69	ND				6290.22
	11.01.18	ND	11.58	ND				6289.33
	9.20.19	ND	12.04	ND				6288.87
	1.31.20	20 ND 11.14 N	ND				6289.77	
	5.8.20	ND	10.83	ND				6290.08
	11.11.20	ND	11.54	ND				6289.37
	5.28.21	ND	10.98	ND				6289.93
	11.22.21	ND	11.66	ND				6289.25
	5.19.22	ND	10.89	ND				6290.02
	11.8.22	ND	9.87	ND				6291.04

				TABLE 2				
				1 Pipeline Rel				
			GROUN	DWATER ELEV	ATIONS			
Well I.D.	Date	Depth to	Depth to	Product Thickness	Total Depth of	Screen Interval	TOC Elevation	
		Product	Water	Inickness	Well			Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	4.21.11	ND	11.98	ND				6289.21
	6.21.11	ND	12.40	ND				6288.79
	9.22.11	ND	13.07	ND				6288.12
	12.13.11	ND	12.55	ND				6288.64
	3.20.12	ND	12.26	ND				6288.93
	6.19.12	ND	12.93	ND				6288.26
	9.19.12	ND	13.27	ND				6287.92
	12.17.12	ND	12.51	ND				6288.68
	3.15.13	ND	12.05	ND				6289.14
	6.27.13	ND	12.82	ND				6288.37
	10.21.13	ND	11.94	ND				6289.25
	12.12.13	ND	11.61	ND	-			6289.58
	4.17.14	ND	11.25	ND				6289.94
	11.6.14	ND	11.80	ND				6289.39
MW-11	5.28.15	ND	11.12	ND	19.07	9.07-19.07	6301.19	6290.07
	11.30.15	ND	11.18	ND	10.07	0.07 10.07	0001110	6290.01
	5.25.16	ND	10.79	ND				6290.40
	11.07.16	ND	11.66	ND				6289.53
	5.26.17	ND	10.66	ND				6290.53
	12.06.17	ND	10.82	ND				6290.37
	5.30.18	ND	10.88	ND				6290.31
	11.01.18	ND	11.82	ND				6289.37
	9.20.19	ND	12.26	ND				6288.93
	1.31.20	1.31.20 ND 11.39	ND				6289.80	
	5.8.20	ND	11.07	ND				6290.12
	11.11.20	ND	11.79	ND				6289.40
	5.28.21	ND	11.24	ND				6289.95
	11.22.21	ND	11.92	ND				6289.27
	5.19.22	ND	11.16	ND				6290.03
	11.8.22	ND	10.09	ND				6291.10

				TABLE 2				
				1 Pipeline Rel				
			GROUN	DWATER ELEV	ATIONS			
Well I.D.	Date	Depth to	Depth to	Product	Total Depth of	Screen Interval	TOC Elevation	
		Product	Water	Thickness	Well			Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	4.21.11	ND	8.96	ND				6290.12
	6.21.11	ND	9.42	ND				6289.66
	9.22.11	ND	10.82	ND				6288.26
	12.13.11	ND	10.13	ND				6288.95
	3.20.12	ND	9.41	ND				6289.67
	6.19.12	ND	10.09	ND				6288.99
	9.19.12	ND	11.03	ND				6288.05
	12.17.12	ND	10.21	ND				6288.87
	3.15.13	ND	9.26	ND				6289.82
	6.27.13	ND	9.99	ND				6289.09
	10.21.13	ND	9.09	ND				6289.99
	12.12.13	ND	8.78	ND				6290.30
	4.17.14	ND	8.44	ND				6290.64
	11.6.14	ND	9.05	ND				6290.03
MW-12	5.28.15	ND	8.34	ND	18.03	8.03-18.03	6299.08	6290.74
	11.30.15	ND	8.44	ND	10.00	0.00 10.00	0200.00	6290.64
	5.25.16	ND	8.11	ND				6290.97
	11.07.16	ND	8.87	ND				6290.21
	5.26.17	ND	8.01	ND				6291.07
	12.06.17	ND	8.12	ND				6290.96
	5.30.18	ND	8.27	ND				6290.81
	11.01.18	ND	9.17	ND				6289.91
	9.20.19	ND	9.68	ND				6289.40
	1.31.20	1.31.20 ND 8.71 ND	ND				6290.37	
	5.8.20	ND	8.34	ND				6290.74
	11.11.20	ND	9.10	ND				6289.98
	5.28.21	ND	8.48	ND				6290.60
	11.22.21	ND	9.30	ND				6289.78
	5.19.22	ND	8.43	ND				6290.65
	11.8.22	ND	7.48	ND				6291.60

				TABLE 2				
				1 Pipeline Rel				
			GROUN	DWATER ELEV	ATIONS			
Well I.D.	Date	Depth to	Depth to	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		Product	Water	Thickness			(fact AMCL)	
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	4.21.11	ND	9.07	ND				6289.20
	6.21.11	ND	9.51	ND				6288.76
	9.22.11	ND	10.15	ND				6288.12
	12.13.11	ND	9.59	ND				6288.68
	3.20.12	ND	9.35	ND				6288.92
	6.19.12	ND	10.09	ND				6288.18
	9.19.12	ND	10.29	ND				6287.98
	12.17.12	ND	9.47	ND				6288.80
	3.15.13	ND	9.11	ND				6289.16
	6.27.13	ND	9.94	ND				6288.33
	10.21.13	ND	8.91	ND				6289.36
	12.12.13	ND	8.57	ND				6289.70
	4.17.14	ND	8.39	ND				6289.88
	11.6.14	ND	8.83	ND				6289.44
MW-13	5.28.15	ND	8.32	ND	17.90	7.90-17.90	6298.27	6289.95
10100-10	11.30.15	ND	8.21	ND	17.50	1.50-11.50	0200.21	6290.06
	5.25.16	ND	8.01	ND				6290.26
	11.07.16	ND	8.67	ND				6289.60
	5.26.17	ND	7.83	ND				6290.44
	12.06.17	ND	7.90	ND				6290.37
	5.30.18	ND	8.08	ND				6290.19
	11.01.18	ND	8.84	ND				6289.43
	9.20.19	ND	9.36	ND				6288.91
	1.31.20 ND	ND	8.40	ND				6289.87
	5.11.20	ND	8.17	ND				6290.10
	11.11.20	ND	8.82	ND				6289.45
	5.28.21	ND	8.29	ND				6289.98
	11.22.21	ND	8.93	ND				6289.34
	5.19.22	ND	8.18	ND				6290.09
	11.8.22	ND	7.24	ND				6291.03

ENSOLUM

				TABLE 2				
				1 Pipeline Rel				
			GROUN	DWATER ELEV	ATIONS			
Well I.D.	Date	Depth to Product	Depth to	Product	Total Depth of		TOC Elevation	Groundwater Elevation*
			Water	Thickness	Well	Interval		
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	4.21.11	ND	12.54	ND				6288.66
	6.21.11	ND	12.88	ND				6288.32
	9.22.11	ND	13.53	ND				6287.67
	12.13.11	ND	13.11	ND				6288.09
	3.20.12	ND	12.80	ND				6288.40
	6.19.12	ND	13.42	ND				6287.78
	9.19.12	ND	13.70	ND				6287.50
	12.17.12	ND	12.93	ND				6288.27
	3.15.13	ND	12.55	ND				6288.65
	6.27.13	ND	13.26	ND				6287.94
	10.22.13	ND	12.39	ND				6288.81
	12.12.13	ND	12.06	ND				6289.14
	4.18.14	ND	11.79	ND				6289.41
	11.6.14	ND	12.23	ND				6288.97
MW-14	5.28.15	ND	11.67	ND	18.88	8.88-18.88	6301.20	6289.53
	11.30.15	ND	11.62	ND	10.00	0.00 10.00	0001.20	6289.58
	5.25.16	ND	11.35	ND				6289.85
	11.07.16	ND	12.09	ND				6289.11
	5.26.17	ND	11.24	ND				6289.96
	12.06.17	ND	11.27	ND				6289.93
	5.30.18	ND	11.36	ND				6289.84
	11.01.18	ND	12.23	ND				6288.97
	9.20.19	ND	12.68	ND				6288.52
	1.31.20	ND	11.78	ND				6289.42
	5.11.20	ND	11.54	ND				6289.66
	11.11.20	ND	12.19	ND				6289.01
	5.28.21	ND	11.65	ND				6289.55
	11.22.21	ND	12.29	ND				6288.91
	5.19.22	ND	11.57	ND				6289.63
	11.8.22	ND	10.60	ND				6290.60

ENSOLUM

				TABLE 2				
				1 Pipeline Rel				
			GROUN	DWATER ELEV	ATIONS			
Well I.D.	Date	Depth to	Depth to	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		Product	Water	Thickness			(fact AMCL)	
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	4.21.11	ND	12.06	ND				6287.83
	6.21.11	ND	12.26	ND				6287.63
	9.22.11	ND	12.57	ND				6287.32
	12.13.11	ND	12.28	ND				6287.61
	3.20.12	ND	12.24	ND				6287.65
	6.19.12	ND	12.71	ND				6287.18
	9.19.12	ND	12.80	ND				6287.09
	12.17.12	ND	11.90	ND				6287.99
	3.15.13	ND	11.80	ND				6288.09
	6.27.13	ND	12.37	ND				6287.52
	10.21.13	ND	11.32	ND				6288.57
	12.12.13	ND	10.92	ND				6288.97
	4.17.14	ND	10.76	ND				6289.13
	11.6.14	ND	10.99	ND				6288.90
MW-16	5.28.15	ND	10.56	ND	18.01	8.01-18.01	6299.89	6289.33
	11.30.15	ND	10.39	ND	10.01	0.01 10.01	0200.00	6289.50
	5.25.16	ND	10.10	ND				6289.79
	11.07.16	ND	10.86	ND				6289.03
	5.26.17	ND	10.02	ND				6289.87
	12.06.17	ND	10.01	ND				6289.88
	5.30.18	ND	10.11	ND				6289.78
	11.01.18	ND	11.02	ND				6288.87
	9.20.19	ND	11.35	ND				6288.54
	1.31.20	ND	10.60	ND				6289.29
	5.11.20	ND	10.32	ND				6289.57
	11.11.20	ND	10.96	ND				6288.93
	5.28.21	ND	10.36	ND				6289.53
	11.22.21 ^A	ND	11.57	ND				6288.32
	5.19.22	ND	10.17	ND				6289.72
	11.8.22	ND	9.28	ND				6290.61

ENSOLUM

				TABLE 2				
				1 Pipeline Rel				
			GROUN	DWATER ELEV	ATIONS			
Well I.D.	Date	Depth to	Depth to	Product	Total Depth of	Screen Interval	TOC Elevation	
		Product	Water	Thickness	Well			Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	4.21.11	ND	9.90	ND				6288.67
	6.21.11	ND	9.56	ND				6289.01
	9.22.11	ND	10.83	ND				6287.74
	12.13.11	ND	10.31	ND				6288.26
	3.20.12	ND	10.12	ND				6288.45
	6.19.12	ND	10.81	ND				6287.76
	9.19.12	ND	10.95	ND				6287.62
	12.17.12	ND	10.13	ND				6288.44
	3.15.13	ND	9.85	ND				6288.72
	6.27.13	ND	10.62	ND				6287.95
	10.21.13	ND	9.61	ND				6288.96
	12.12.13	ND	9.28	ND				6289.29
	4.17.14	ND	9.13	ND				6289.44
	11.6.14	ND	9.47	ND				6289.10
MW-17	5.28.15	ND	9.00	ND	18.16	8.16-18.16	6298.57	6289.57
	11.30.15	ND	8.87	ND		0.10 10110	020000	6289.70
	5.25.16	ND	8.65	ND				6289.92
	11.07.16	ND	9.32	ND				6289.25
	5.26.17	ND	8.56	ND				6290.01
	12.06.17	ND	8.52	ND				6290.05
	5.30.18	ND	8.68	ND				6289.89
	11.01.18	ND	9.48	ND				6289.09
	9.20.19	ND	9.97	ND				6288.60
	1.31.20	ND	9.05	ND				6289.52
	5.11.20	ND	8.83	ND				6289.74
	11.11.20	ND	9.45	ND				6289.12
	5.28.21	ND	8.91	ND				6289.66
	11.22.21	ND	9.56	ND				6289.01
	5.19.22	ND	8.81	ND				6289.76
	11.8.22	ND	7.82	ND				6290.75

E N S O L U M

				TABLE 2				
				1 Pipeline Rel				
				DWATER ELEV				
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
		(,	(,		(,	(,	(,	(,
	3.20.12	ND	16.60	ND				6288.17
	6.19.12	ND	17.42	ND				6287.35
	9.19.12	ND	17.45	ND				6287.32
	12.17.12	ND	16.73	ND				6288.04
	3.15.13		Blockage					Blockage
	6.27.13		Blockage					Blockage
	10.22.13		Blockage					Blockage
	12.12.13		Blockage					Blockage
	4.17.14		Blockage					Blockage
	11.6.14		Blockage					Blockage
	5.28.15		Blockage					Blockage
	11.30.15		Blockage					Blockage
N04/ 40	5.25.16		Blockage		NA	NIA	0004 77	Blockage
MW-18	11.07.16		Blockage		NA	NA	6304.77	Blockage
	5.26.17	ND	15.12	ND				6289.65
	12.06.17	ND	15.31	ND				6289.46
	5.30.18		Blockage					Blockage
	11.01.18		Blockage					Blockage
	9.20.19		Blockage					Blockage
	1.31.20		Blockage					Blockage
	5.8.20		Blockage					Blockage
	11.11.20		Blockage					Blockage
	5.28.21		Blockage					Blockage
	11.22.21		Blockage					Blockage
	5.19.22		Blockage					Blockage
	11.8.22		Blockage					Blockage
<u> </u>		1			1			

E N S O L U M

				TABLE 2				
				1 Pipeline Rel				
		-		DWATER ELEV				
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	3.20.12	ND	15.69	ND				6288.11
	6.19.12 ^B	16.25	16.32	0.07				6287.52
	9.19.12 ^B	16.47	16.49	0.02				6287.32
	12.17.12	ND	15.91	ND				6287.89
	3.15.13	ND	15.38	ND				6288.42
	6.27.13	ND	16.19	ND				6287.61
	10.22.13	ND	15.13	ND				6288.67
	12.12.13	ND	14.78	ND				6289.02
	4.18.14	ND	14.68	ND				6289.12
	11.6.14	ND	14.99	ND				6288.81
	5.28.15	ND	14.60	ND				6289.20
	11.30.15	ND	14.38	ND				6289.42
MW-19	5.25.16	ND	14.28	ND	23.22	40.00.00.00	6202.00	6289.52
10100-19	11.07.16	ND	14.83	ND	23.22	13.22-23.22	6303.80	6288.97
	5.26.17	ND	14.20	ND				6289.60
	12.06.17	ND	14.08	ND				6289.72
	5.30.18	ND	14.27	ND				6289.53
	11.01.18	ND	15.00	ND				6288.80
	9.20.19	ND	15.47	ND				6288.33
	1.31.20	ND	14.56	ND				6289.24
	5.11.20	ND	14.40	ND				6289.40
	11.11.20	ND	14.98	ND				6288.82
	5.28.21	ND	14.53	ND				6289.27
	11.22.21	ND	15.05	ND				6288.75
	5.19.22	ND	14.40	ND				6289.40
	11.8.22	ND	13.48	ND				6290.32

E N S O L U M

				TABLE 2				
				1 Pipeline Rel				
				IDWATER ELEV				
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	3.20.12	ND	25.82	ND				6286.77
	6.19.12	ND	26.30	ND				6286.29
	9.19.12	ND	26.31	ND				6286.28
	12.17.12	ND	25.42	ND				6287.17
	3.15.13	ND	25.38	ND				6287.21
	6.27.13	ND	26.11	ND				6286.48
	10.22.13	ND	24.98	ND				6287.61
	12.12.13	ND	24.57	ND				6288.02
	4.17.14	ND	24.66	ND				6287.93
	11.6.14	ND	24.81	ND				6287.78
	5.28.15	ND	24.80	ND				6287.79
	11.30.15	ND	24.15	ND				6288.44
MW-20	5.25.16	ND	24.28	ND	30.51	20.51-30.51	6312.59	6288.31
10100-20	11.07.16	ND	24.48	ND	30.51	20.51-50.51	0312.59	6288.11
	5.26.17	ND	24.37	ND				6288.22
	12.06.17	ND	23.95	ND				6288.64
	5.30.18	ND	24.29	ND				6288.30
	11.01.18	ND	24.69	ND				6287.90
	9.20.19	ND	25.35	ND				6287.24
	1.31.20	ND	24.26	ND				6288.33
	5.11.20	ND	24.30	ND				6288.29
	11.11.20	ND	24.73	ND				6287.86
	5.28.21	ND	24.43	ND				6288.16
	11.22.21	ND	24.70	ND				6287.89
	5.19.22	ND	24.17	ND				6288.42
	11.8.22	ND	23.40	ND				6289.19

BTOC - below top of casing

TOC - top of casing

* - corrected for presence of phase-sepated hydrocarbon using a site-specific density correction factor of 0.63. Groundwater elevations at each well are listed in feet above mean sea level (AMSL) as measured from the TOC.

Basis of elevation: As measured at set temporary bench mark (elevation = 6296.14'), as indicated by the professional surveyor.

^A - Suspected misgauge.

^B - No visual verification. May not be hydrocarbon.

NA - Not Available

ND - Not Detected



APPENDIX D

Laboratory Data Sheets & Chain of Custody Documentation

Released to Imaging: 8/6/2024 3:47:11 PM



May 26, 2022

Kyle Summers Ensolum, LLC 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (903) 821-5603 FAX:

RE: Lateral K 51 2010

OrderNo.: 2205930

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/20/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 2205930

Date Reported: 5/26/2022

CLIENT:Ensolum, LLCProject:Lateral K 51 2010Lab ID:2205930-001	Client Sample ID: MW-11 Collection Date: 5/19/2022 10:05:00 AM Matrix: AQUEOUS Received Date: 5/20/2022 7:05:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 8021B: VOLATILES					Analyst	BRM	
Benzene	ND	1.0	µg/L	1	5/21/2022 5:25:00 PM	C88182	
Toluene	ND	1.0	µg/L	1	5/21/2022 5:25:00 PM	C88182	
Ethylbenzene	ND	1.0	µg/L	1	5/21/2022 5:25:00 PM	C88182	
Xylenes, Total	ND	2.0	µg/L	1	5/21/2022 5:25:00 PM	C88182	
Surr: 4-Bromofluorobenzene	96.6 7	0-130	%Rec	1	5/21/2022 5:25:00 PM	C88182	

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

Qualifiers: *

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 1 of 9

Analytical Report Lab Order 2205930

Date Reported: 5/26/2022

CLIENT: Ensolum, LLC	Client Sample ID: MW-4							
Project: Lateral K 51 2010		Co	ollection Dat	e: 5/	19/2022 10:35:00 AM			
Lab ID: 2205930-002	Matrix: AQUEOUS	F	Received Dat	e: 5/2	20/2022 7:05:00 AM			
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 8021B: VOLATILES					Analyst	: BRM		
Benzene	ND	1.0	µg/L	1	5/21/2022 6:24:00 PM	C88182		
Toluene	ND	1.0	µg/L	1	5/21/2022 6:24:00 PM	C88182		
Ethylbenzene	ND	1.0	µg/L	1	5/21/2022 6:24:00 PM	C88182		
Xylenes, Total	3.6	2.0	µg/L	1	5/21/2022 6:24:00 PM	C88182		
Surr: 4-Bromofluorobenzene	92.4 7	0-130	%Rec	1	5/21/2022 6:24:00 PM	C88182		

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

Qualifiers:

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

Page 2 of 9

Analytical Report
Lab Order 2205930

Date Reported: 5/26/2022

CLIENT: Ensolum, LLCProject: Lateral K 51 2010Lab ID: 2205930-003	Client Sample ID: MW-12 Collection Date: 5/19/2022 11:10:00 AM Matrix: AQUEOUS Received Date: 5/20/2022 7:05:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 8021B: VOLATILES					Analyst	BRM	
Benzene	ND	1.0	μg/L	1	5/21/2022 6:44:00 PM	C88182	
Toluene	ND	1.0	μg/L	1	5/21/2022 6:44:00 PM	C88182	
Ethylbenzene	ND	1.0	μg/L	1	5/21/2022 6:44:00 PM	C88182	
Xylenes, Total	ND	2.0	μg/L	1	5/21/2022 6:44:00 PM	C88182	
Surr: 4-Bromofluorobenzene	95.5 7	0-130	%Rec	1	5/21/2022 6:44:00 PM	C88182	

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

Qualifiers: *

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

Page 3 of 9

Analytical Report Lab Order 2205930

Date Reported: 5/26/2022

CLIENT: Ensolum, LLC		Client Sa	ample II	D: M	W-1	
Project: Lateral K 51 2010		Collect	tion Dat	e: 5 /1	19/2022 11:30:00 AM	
Lab ID: 2205930-004	Matrix: AQUEOUS	Recei	ved Dat	e: 5/2	20/2022 7:05:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	1.0	µg/L	1	5/21/2022 7:03:00 PM	C88182
Denzene						
Toluene	ND	1.0	μg/L	1	5/21/2022 7:03:00 PM	C88182
	ND ND	1.0 1.0	μg/L μg/L	1 1	5/21/2022 7:03:00 PM 5/21/2022 7:03:00 PM	
Toluene		-		-		C88182 C88182 C88182

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:** D

- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 9

Analytical Report Lab Order 2205930

Date Reported: 5/26/2022

CLIENT: Ensolum, LLC		Client Sample	ID: M	W-2	
Project: Lateral K 51 2010		Collection Da	ate: 5/1	9/2022 12:05:00 PM	
Lab ID: 2205930-005	Matrix: AQUEOUS	Received Da	ate: 5/2	20/2022 7:05:00 AM	
Analyses	Result	RL Qual Units	5 DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analyst	BRM
Benzene	ND	1.0 µg/L	1	5/21/2022 7:23:00 PM	C88182
Benzene Toluene	ND ND	1.0 μg/L 1.0 μg/L	1 1	5/21/2022 7:23:00 PM 5/21/2022 7:23:00 PM	C88182
		P.9-	•		C88182 C88182
Toluene	ND	1.0 μg/L	1	5/21/2022 7:23:00 PM	

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:** D

- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 9

Analytical Report Lab Order 2205930

Date Reported: 5/26/2022

CLIENT: Ensolum, LLC		Clier	nt Sample I	D: M	W-3	
Project: Lateral K 51 2010		Co	llection Dat	e: 5/	19/2022 12:30:00 PM	
Lab ID: 2205930-006	Matrix: AQUEOUS	R	eceived Dat	e: 5/2	20/2022 7:05:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	BRM
Benzene	ND	1.0	µg/L	1	5/21/2022 7:42:00 PM	C88182
Toluene	ND	1.0	µg/L	1	5/21/2022 7:42:00 PM	C88182
Ethylbenzene	ND	1.0	µg/L	1	5/21/2022 7:42:00 PM	C88182
T	ND	2.0	µg/L	1	5/21/2022 7:42:00 PM	C88182
Xylenes, Total	IND IND	2.0	1-3-		•/= //=•== · · ·=·••	

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

Qualifiers:

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

Page 6 of 9

Analytical Report Lab Order 2205930

Date Reported: 5/26/2022

CLIENT: Ensolum, LLC	Client Sample ID: MW-13									
Project: Lateral K 51 2010	Collection Date: 5/19/2022 1:00:00 PM									
Lab ID: 2205930-007	Matrix: AQUEOUS Received Date: 5/20/2022 7:05:00 AM									
Analyses	Result	RL Qual Units	DF Date Analyzed	Batch						
EPA METHOD 8021B: VOLATILES			Ana	lyst: BRM						
EPA METHOD 8021B: VOLATILES Benzene	ND	1.0 μg/L	Ana 1 5/21/2022 8:02:00 F	,						
	ND ND	1.0 μg/L 1.0 μg/L		PM C88182						
Benzene		· · · ·	1 5/21/2022 8:02:00 F	PM C88182 PM C88182						
Benzene Toluene	ND	1.0 µg/L	1 5/21/2022 8:02:00 F 1 5/21/2022 8:02:00 F	PM C88182 PM C88182 PM C88182 PM C88182						

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:** D

- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 9

Analytical Report
Lab Order 2205930

Date Reported: 5/26/2022

CLIENT: Ensolum, LLC	Client Sample ID: MW-17								
Project: Lateral K 51 2010 Collection Date: 5/19/2022 1:25:00 PM									
Lab ID: 2205930-008	Matrix: AQUEOUS Received Date: 5/20/2022 7:05:00 AM								
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 8021B: VOLATILES					Analyst	BRM			
Benzene	ND	1.0	µg/L	1	5/21/2022 8:22:00 PM	C88182			
Toluene	ND	1.0	µg/L	1	5/21/2022 8:22:00 PM	C88182			
Ethylbenzene	ND	1.0	µg/L	1	5/21/2022 8:22:00 PM	C88182			
Xylenes, Total	ND	2.0	µg/L	1	5/21/2022 8:22:00 PM	C88182			
Surr: 4-Bromofluorobenzene	98.5 7	0-130	%Rec		5/21/2022 8:22:00 PM	C88182			

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

Qualifiers: *

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

Page 8 of 9

Ensolum, LLC

Lateral K 51 2010

Client:

Project:

Sample ID: 100ng btex lcs

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Client ID:	LCSW	Batch	Batch ID: C88182 RunNo: 88182				3182				
Prep Date:		Analysis D	Date: 5/2	21/2022	S	SeqNo: 31	26102	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		19	1.0	20.00	0	94.1	80	120			
Toluene		19	1.0	20.00	0	96.8	80	120			
Ethylbenzene		20	1.0	20.00	0	98.0	80	120			
Xylenes, Total		59	2.0	60.00	0	97.7	80	120			
Surr: 4-Bron	nofluorobenzene	19		20.00		96.8	70	130			
Sample ID:	mb	SampT	SampType: MBLK			tCode: EF	PA Method	8021B: Volatil	es		
Client ID:	PBW	Batch ID: C88182			F	RunNo: 88	3182				
Prep Date:		Analysis D	Date: 5/2	21/2022	S	SeqNo: 31	26103	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								
Xylenes, Total		ND	2.0								
Surr: 4-Bron	nofluorobenzene	19		20.00		96.9	70	130			
Sample ID:	2205930-001ams	SampT	ype: MS	5	TestCode: EPA Method 8021B: Volatiles						
		Batch ID: C88182				RunNo: 88182					
Client ID:	MW-11	Batch	n ID: C8	8182	F	RunNo: 88	3182				
Client ID: Prep Date:	MW-11	Batch Analysis D				RunNo: 88 SeqNo: 3 1		Units: µg/L			
	MW-11			21/2022				Units: µg/L HighLimit	%RPD	RPDLimit	Qual
Prep Date:	MW-11	Analysis D	Date: 5/2	21/2022	S	SeqNo: 31	26113		%RPD	RPDLimit	Qual
Prep Date: Analyte	MW-11	Analysis D Result	Date: 5/2 PQL	21/2022 SPK value	SPK Ref Val	SeqNo: 31 %REC	I 26113 LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: Analyte Benzene	MW-11	Analysis D Result 20	Date: 5/2 PQL 1.0	21/2022 SPK value 20.00	SPK Ref Val	SeqNo: 31 %REC 100	1 26113 LowLimit 80	HighLimit 120	%RPD	RPDLimit	Qual
Prep Date: Analyte Benzene Toluene		Analysis D Result 20 20	Date: 5/2 PQL 1.0 1.0	21/2022 SPK value 20.00 20.00	SPK Ref Val 0 0	SeqNo: 31 %REC 100 102	26113 LowLimit 80 80	HighLimit 120 120	%RPD	RPDLimit	Qual
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total		Analysis D Result 20 20 21	Date: 5/2 PQL 1.0 1.0 1.0	21/2022 SPK value 20.00 20.00 20.00	SPK Ref Val 0 0 0	SeqNo: 31 %REC 100 102 103	26113 LowLimit 80 80 80 80	HighLimit 120 120 120	%RPD	RPDLimit	Qual
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron		Analysis D Result 20 20 21 62 19	Date: 5/2 PQL 1.0 1.0 1.0	21/2022 SPK value 20.00 20.00 20.00 60.00 20.00	SPK Ref Val 0 0 0 0	SeqNo: 31 %REC 100 102 103 103 93.7	26113 LowLimit 80 80 80 80 70	HighLimit 120 120 120 120		RPDLimit	Qual
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	nofluorobenzene	Analysis D Result 20 20 21 62 19 SampT	Date: 5/2 PQL 1.0 1.0 1.0 2.0	21/2022 SPK value 20.00 20.00 20.00 60.00 20.00	SPK Ref Val 0 0 0 0 0 Tes	SeqNo: 31 %REC 100 102 103 103 93.7	26113 LowLimit 80 80 80 80 80 70 24 Method	HighLimit 120 120 120 120 120 130		RPDLimit	Qual
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID:	nofluorobenzene 2205930-001amsd	Analysis D Result 20 20 21 62 19 SampT	Date: 5/2 PQL 1.0 1.0 1.0 2.0 Type: MS n ID: C8:	21/2022 SPK value 20.00 20.00 20.00 60.00 20.00 5D 8182	SPK Ref Val 0 0 0 0 0 Tes F	SeqNo: 31 %REC 100 102 103 103 93.7 ttCode: EF	26113 LowLimit 80 80 80 80 70 PA Method 8182	HighLimit 120 120 120 120 120 130		RPDLimit	Qual
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID:	nofluorobenzene 2205930-001amsd	Analysis D Result 20 20 21 62 19 SampT Batch	Date: 5/2 PQL 1.0 1.0 1.0 2.0 Type: MS n ID: C8:	21/2022 SPK value 20.00 20.00 20.00 60.00 20.00 5D 8182 21/2022	SPK Ref Val 0 0 0 0 0 Tes F	SeqNo: 31 %REC 100 102 103 103 93.7 ttCode: EF RunNo: 88	26113 LowLimit 80 80 80 80 70 PA Method 8182	HighLimit 120 120 120 120 120 130 8021B: Volatil		RPDLimit	Qual
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date:	nofluorobenzene 2205930-001amsd	Analysis D Result 20 20 21 62 19 SampT Batch Analysis D	Date: 5/2 PQL 1.0 1.0 1.0 2.0 Type: MS p ID: C8 Date: 5/2	21/2022 SPK value 20.00 20.00 20.00 60.00 20.00 5D 8182 21/2022	SPK Ref Val 0 0 0 0 0 Tes	SeqNo: 31 %REC 100 102 103 103 93.7 etCode: EF RunNo: 88 SeqNo: 31	226113 LowLimit 80 80 80 80 80 80 70 24 Method 3182 126114	HighLimit 120 120 120 120 130 8021B: Volatil Units: µg/L	es		
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte	nofluorobenzene 2205930-001amsd	Analysis D Result 20 20 21 62 19 SampT Batch Analysis D Result	Date: 5/2 PQL 1.0 1.0 1.0 2.0 Type: MS on ID: C8: Date: 5/2 PQL	21/2022 SPK value 20.00 20.00 20.00 60.00 20.00 5D 8182 21/2022 SPK value	SPK Ref Val 0 0 0 0 0 Tes F SPK Ref Val	SeqNo: 31 %REC 100 102 103 103 93.7 etCode: EF RunNo: 88 SeqNo: 31 %REC	26113 LowLimit 80 80 80 80 80 70 24 Method 3182 126114 LowLimit	HighLimit 120 120 120 120 130 8021B: Volatil Units: µg/L HighLimit	es %RPD	RPDLimit	
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene	nofluorobenzene 2205930-001amsd	Analysis D Result 20 20 21 62 19 SampT Batch Analysis D Result 19	Date: 5/2 PQL 1.0 1.0 1.0 2.0 Type: MS n ID: C8 Date: 5/2 PQL 1.0	21/2022 SPK value 20.00 20.00 20.00 60.00 20.00 60.00 20.00 50 8182 21/2022 SPK value 20.00	SPK Ref Val 0 0 0 0 0 Tes F SPK Ref Val 0	SeqNo: 31 %REC 100 102 103 103 93.7 etCode: EF RunNo: 88 SeqNo: 31 %REC 95.4	26113 LowLimit 80 80 80 80 80 70 PA Method 3182 126114 LowLimit 80	HighLimit 120 120 120 120 130 8021B: Volatil Units: µg/L HighLimit 120	es %RPD 4.75	RPDLimit 20	
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	nofluorobenzene 2205930-001amsd MW-11	Analysis D Result 20 20 21 62 19 SampT Batch Analysis D Result 19 20	Date: 5/2 PQL 1.0 1.0 1.0 2.0 Type: MS Date: 5/2 PQL 1.0 1.0 1.0	21/2022 SPK value 20.00 20.00 20.00 60.00 20.00 5D 8182 21/2022 SPK value 20.00 20.00	SPK Ref Val 0 0 0 0 0 Tes F SPK Ref Val 0 0	SeqNo: 31 %REC 100 102 103 93.7 stCode: EF RunNo: 88 SeqNo: 31 %REC 95.4 97.5	26113 LowLimit 80 80 80 80 80 70 24 Method 8182 26114 LowLimit 80 80 80	HighLimit 120 120 120 120 120 130 8021B: Volatil Units: µg/L HighLimit 120 120 120 130	es %RPD 4.75 4.95	RPDLimit 20 20	
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	nofluorobenzene 2205930-001amsd MW-11	Analysis D Result 20 20 21 62 19 SampT Batch Analysis D Result 19 20 20	Date: 5/2 PQL 1.0 1.0 1.0 2.0 Type: MS Date: 5/2 PQL 1.0 1.0 1.0 1.0 1.0	21/2022 SPK value 20.00 20.00 20.00 60.00 20.00 8182 21/2022 SPK value 20.00 20.00 20.00 20.00	SPK Ref Val 0 0 0 0 0 0 5 FK Ref Val 0 0 0 0 0	SeqNo: 31 %REC 100 102 103 103 93.7 ttCode: EF RunNo: 88 SeqNo: 31 %REC 95.4 97.5 99.2	26113 LowLimit 80 80 80 80 80 70 2A Method 8182 26114 LowLimit 80 80 80 80 80 80 80 80 80 80	HighLimit 120 120 120 120 130 8021B: Volatil Units: μg/L HighLimit 120 120 120 120	es %RPD 4.75 4.95 3.98	RPDLimit 20 20 20	

TestCode: EPA Method 8021B: Volatiles

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 9 of 9

WO#: 2205930

•

	ONMENT		TEL: 505-345-	ental Analysis Labor 4901 Hawki, Albuquerque, NM & 3975 FAX: 505-345 w.hallenvironmenta	ns NE 87109 San -4107	nple Log-In Cl	Page 120 neck List
Client Name:	ENSOLUN	1	Work Order Nun	nber: 2205930		RcptNo:	1
Received By:	Juan Roj	as	5/20/2022 7:05:00	АМ	(Juan and		
Completed By:	Tracy Ca	sarrubias	5/20/2022 8:16:48	AM			
Reviewed By:	su	5/20/22					
<u>Chain of Cus</u>	tody						
1. Is Chain of C	ustody comp	olete?		Yes 🔽	No 🗌	Not Present	
2. How was the	sample deli	vered?		Courier			
Log In						_	
3. Was an atterr	pt made to	cool the samp	es?	Yes 🗹	No 🗌	NA 🗌	
4. Were all samp	oles received	l at a tempera	ure of >0° C to 6.0°C	Yes 🔽	No 🗌		
5. Sample(s) in I	proper conta	iner(s)?		Yes 🔽	No 🗌		
6. Sufficient sam	ple volume	for indicated te	st(s)?	Yes 🔽	No 🗌		
7. Are samples (except VOA	and ONG) pro	perly preserved?	Yes 🔽	No 🗌		
8. Was preserva	ive added to	bottles?		Yes 🗌	No 🔽	NA 🗌	
9. Received at le	ast 1 vial wi	h headspace ·	<1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any san	ple contain	ers received bi	oken?	Yes	No 🔽	# of preserved	
11. Does paperwo				Yes 🔽	No 🗌	bottles checked for pH:	
(Note discrepa							12 unless noted)
12. Are matrices c			1	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what 14. Were all holdir				Yes 🗹	No 🗌	Checked by: 1	15/20/02
(If no, notify cu				Yes 🔽	No 🗌	Checked by:	13/20/22
Special Handli	ng (if app	olicable)					
15. Was client no	ified of all d	iscrepancies w	rith this order?	Yes 🗌	No 🗌	NA 🔽	
Person	Notified:	[Date	: [
By Who	m:	[Via:	eMail 🗌 F	Phone 🗌 Fax	In Person	
Regardi	ng:	[
Client In	structions:						
16. Additional rer	narks:						
17. Cooler Inform	nation						
Cooler No	Temp °C	Condition	Seal Intact Seal No	Seal Date	Signed By		
1	2.0	Good	Yes				

Page 1 of 1

	ANAL VSTS LARODATODY	4901 Hawkins NE - Albuquerque, NM 87109	5 Fax 505-345-4107	Analysis Request	0.4	ьО⁺' 20 SWIS2 ьСВ, ² О \ WK0	280 (1) ,201 ,201	(A() (A() (A() (A(VC 103 110 110 110 110	15D ettic 9 Me 3 Me 3 Me 3 Me 3 Me	 XTEX / XTPH:80 8081 Pe 8081 Pe 8081 Pe 8260 (V 8260 (V 8250 (S 8250 (S 								×		Time: Relinquished by: Via:1 Date Time Remarks: 1715 Month Laboration Month Laboration Month Laboration Month Laboration Month Laboration 1715 Relinquished by: Nathe Nathe Time Remarks: 1715 Relinquished by: Nathe Nathe Time Received by: Via: Date Time 1715 Month Month Month Month Month Nathe N
Turn-Around Time:	🖄 Standard 🛛 🗆 Rush	 (ateral K-51 (2010)	Project #:		Project Manager:	< Summers	Sampler:	On Ice: Types D No	# of Coolers: 🦼	Cooler Temp(Including CF): 2 + 0.1 - 2.0 (°C)	Container Preservative HEAL No. Type and # Type	34 Hantles Hally 001	002	003	Dou	oox	SO C	SO7	V 1 005		Received by: Via: Date Time Time Received by: Via: Date Time Received by: Via: Date Time Of this Interced to other accredited laboratories. This serves as notice of this
Chain-of-Custody Record	Client: Easelury, LLC	Mailing Address: 606. S. R. 6 Careb Site A	M 27410	Phone #:	KS www. of Consolium.com	△ □ Standard □ Level 4 (Full Validation)	Accreditation:	□ Other	pe)		Date Time Matrix Sample Name	10.05 00/1922 WU MUN-11	12355 5/apro UU NW-4	11:10 Chippen W NW-12	11:3035/19/22 W MW - 1	12:03 5/1922 UN WW - 2	12:33 51947 W NW-3	13:00,5/19/22 W NW-13	13-25 5/19/22 WW - 17		Date: Time: Relinquished by: Fighz 1715 Pate: Time: Relinquished by: 1751 Fighz 1751 If necessary, samples submitted to Hall Environmental may be subcord

-240

7/3/202/ 12.22.21 DM R



June 01, 2022

Kyle Summers Ensolum 606 S Rio Grande Ste A Aztec, NM 87410 TEL: (903) 821-5603 FAX:

RE: Lateral K 51 2010

OrderNo.: 2205992

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/21/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 2205992

Date Reported: 6/1/2022

CLIENT	: Ensolum		Client Sample ID: MW-16								
Project:	Lateral K 51 2010	Collection Date: 5/20/2022 9:15:00 AM									
Lab ID:	2205992-001	Matrix: AQUEOUS	Matrix: AQUEOUS Received Date: 5/21/2022 9:45:00 AM								
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA ME	THOD 8260: VOLATILES S	HORT LIST				Analys	: CCM				
Benzene	9	ND	1.0	µg/L	1	5/25/2022 4:33:00 PM	SL88251				
Toluene		ND	1.0	µg/L	1	5/25/2022 4:33:00 PM	SL88251				
Ethylber	izene	ND	1.0	µg/L	1	5/25/2022 4:33:00 PM	SL88251				
Xylenes	, Total	ND	1.5	µg/L	1	5/25/2022 4:33:00 PM	SL88251				
Surr:	1,2-Dichloroethane-d4	96.7	70-130	%Rec	1	5/25/2022 4:33:00 PM	SL88251				
Surr:	Dibromofluoromethane	110	70-130	%Rec	1	5/25/2022 4:33:00 PM	SL88251				
Surr:	Toluene-d8	93.9	70-130	%Rec	1	5/25/2022 4:33:00 PM	SL88251				

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

Qualifiers:

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

Page 1 of 5

Lab Order 2205992

Date Reported: 6/1/2022

CLIENT	: Ensolum		Client Sample ID: MW-14								
Project:	Lateral K 51 2010		Collection Date: 5/20/2022 9:50:00 AM								
Lab ID:	2205992-002	Matrix: AQUEOUS	Matrix: AQUEOUS Received Date: 5/21/2022 9:45:00 AM								
Analyses	8	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA ME	THOD 8260: VOLATILES S	HORT LIST				Analyst	: CCM				
Benzene	9	ND	1.0	µg/L	1	5/25/2022 4:56:00 PM	SL88251				
Toluene		ND	1.0	µg/L	1	5/25/2022 4:56:00 PM	SL88251				
Ethylber	izene	ND	1.0	µg/L	1	5/25/2022 4:56:00 PM	SL88251				
Xylenes,	Total	ND	1.5	µg/L	1	5/25/2022 4:56:00 PM	SL88251				
Surr:	1,2-Dichloroethane-d4	99.4	70-130	%Rec	1	5/25/2022 4:56:00 PM	SL88251				
Surr:	Dibromofluoromethane	110	70-130	%Rec	1	5/25/2022 4:56:00 PM	SL88251				
Surr:	Toluene-d8	94.9	70-130	%Rec	1	5/25/2022 4:56:00 PM	SL88251				

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

Qualifiers:

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

Page 2 of 5

Hall Environmental	Analysis	Laboratory.	Inc.

Lab Order 2205992

Date Reported: 6/1/2022

CLIENT	: Ensolum		Client Sample ID: MW-20								
Project:	Lateral K 51 2010		Collection Date: 5/20/2022 10:25:00 AM								
Lab ID:	2205992-003	Matrix: AQUEOUS	Matrix: AQUEOUS Received Date: 5/21/2022 9:45:00 AM								
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA ME	THOD 8260: VOLATILES S	HORT LIST				Analys	: CCM				
Benzene	e	ND	1.0	µg/L	1	5/25/2022 5:19:00 PM	SL88251				
Toluene		ND	1.0	µg/L	1	5/25/2022 5:19:00 PM	SL88257				
Ethylber	izene	ND	1.0	µg/L	1	5/25/2022 5:19:00 PM	SL88251				
Xylenes,	, Total	ND	1.5	µg/L	1	5/25/2022 5:19:00 PM	SL88251				
Surr:	1,2-Dichloroethane-d4	96.5	70-130	%Rec	1	5/25/2022 5:19:00 PM	SL88251				
Surr:	Dibromofluoromethane	110	70-130	%Rec	1	5/25/2022 5:19:00 PM	SL88251				
Surr:	Toluene-d8	95.0	70-130	%Rec	1	5/25/2022 5:19:00 PM	SL88251				

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

Qualifiers:

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

Page 3 of 5

Lab Order 2205992

Date Reported: 6/1/2022

CLIENT	Ensolum		Client Sample ID: MW-19									
Project:	Lateral K 51 2010		Collection Date: 5/20/2022 10:55:00 AM									
Lab ID:	2205992-004	Matrix: AQUEC	Matrix: AQUEOUS Received Date: 5/21/2022 9:45:00 AM									
Analyses	3	Result	RL (Qual Units	DF	Date Analyzed	Batch					
EPA ME	THOD 8260: VOLATILES S	HORT LIST				Analyst	CCM					
Benzene)	160	5.0	µg/L	5	5/25/2022 5:42:00 PM	SL88251					
Toluene		ND	5.0	µg/L	5	5/25/2022 5:42:00 PM	SL88251					
Ethylben	izene	54	5.0	µg/L	5	5/25/2022 5:42:00 PM	SL88251					
Xylenes,	Total	29	7.5	µg/L	5	5/25/2022 5:42:00 PM	SL88251					
Surr:	1,2-Dichloroethane-d4	92.4	70-130	%Rec	5	5/25/2022 5:42:00 PM	SL88251					
Surr:	Dibromofluoromethane	104	70-130	%Rec	5	5/25/2022 5:42:00 PM	SL88251					
Surr:	Toluene-d8	99.2	70-130	%Rec	5	5/25/2022 5:42:00 PM	SL88251					

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

Qualifiers:

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

Page 4 of 5

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Ensolum
Project:	Lateral K 51 2010

Sample ID: 100ng Ics SampType: LCS				TestCode: EPA Method 8260: Volatiles Short List							
Client ID: LCSW	Batcl	n ID: SL	88251	F	RunNo: 88251						
Prep Date:	Analysis E	Date: 5/2	25/2022	S	SeqNo: 31	30010	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	20	1.0	20.00	0	101	70	130				
Toluene	21	1.0	20.00	0	103	70	130				
Surr: 1,2-Dichloroethane-d4	8.8		10.00		87.8	70	130				
Surr: 4-Bromofluorobenzene	9.7		10.00		97.1	70	130				
Surr: Dibromofluoromethane	9.6		10.00		96.1	70	130				
Surr: Toluene-d8	9.6		10.00		96.5	70	130				
Sample ID: MB SampType: MBLK			Tes	TestCode: EPA Method 8260: Volatiles Short List							
Client ID: PBW	Batcl	n ID: SL	88251	RunNo: 88251							
Prep Date:	Analysis E	Date: 5/2	25/2022	SeqNo: 3130011			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									
	ND	1.0									
Ethylbenzene	ND	1.0									
Ethylbenzene Xylenes, Total											
,	ND	1.0	10.00		89.9	70	130				
Xylenes, Total	ND ND	1.0	10.00 10.00		89.9 96.8	70 70	130 130				
Xylenes, Total Surr: 1,2-Dichloroethane-d4	ND ND 9.0	1.0									

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5

WO#: 2205992

01-Jun-22

ived by OCD: 7/3/2024 12:33:21 PM 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					Page 134 of nple Log-In Check List
Client Name: ENSOLUM	Work Order Number:	22059	92			RcptNo: 1
Received By: Tracy Casarrubias	5/21/2022 9:45:00 AM					
Completed By: Tracy Casarrubias	5/23/2022 8:25:16 AM					
Reviewed By: JN 5/23/22						
Chain of Custody						
1. Is Chain of Custody complete?	,	Yes [\checkmark	No		Not Present
2. How was the sample delivered?	<u>(</u>	Courie	<u>er</u>			
Log In						
3. Was an attempt made to cool the samples?	Y	Yes		No		NA 🗌
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes		No		
5. Sample(s) in proper container(s)?	N N	Yes 🛛		No		
6. Sufficient sample volume for indicated test(s)?	Y	/es		٧o		
7. Are samples (except VOA and ONG) properly p	reserved? Y	′es 🔽	4	٧o		
8. Was preservative added to bottles?	Y	′es [1	No	\checkmark	NA 🗌
9. Received at least 1 vial with headspace <1/4" for	or AQ VOA? Y	′es [1	٩N		NA 🔽
10. Were any sample containers received broken?	١	Yes [No	✓	# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Y	′es 🔽	1	No		bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Cu	stody? Y	′es 🔽	1	٩V		Adjusted?
13. Is it clear what analyses were requested?	Y	'es 🔽	M N	٥V		
 Were all holding times able to be met? (If no, notify customer for authorization.) 	Y	′es 🔽		٩N		Checked by: KPG 5.23.3
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this	order?	Yes [No		NA 🗹
Person Notified:	Date:			*******		
By Whom:	Via:	eMail	Phone		Fax	In Person
Regarding: Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp ^o C Condition Seal 1 3.8 Good Not Pr		al Date	e Signe	ed E	Зу	

.

Page 1 of 1

Received by OCD.	: 7/3/2	2024	12:3	23:21 PM												Pag	e 135 of 2	40
HALL ENVIRONMENTAL ANALYSIS LABORATORY	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Requ		8082 (1023) 14.1) 1023, 1022, 102, 10	vOv tals 10 o 10 o 10 o 10 o	estic Metho 8 Me 3r, <i>N</i> (OA)	8081 P PAHs t RCRA CI, F, I CI, F, U S260 (/ S270 (3									Sill to Ensolum	If necessary, samples submitted to Hall Environmental may be supcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
	~			(1208) e			1W		\times	\times	X	X				Remarks:		iis possibility
Turn-Around Time:	Lateral K-51 (2010)		65A1226010	Frujeu Maliagei.	Sampler: L. Daniell	blers: 1	Cooler Temp(including CF): 3.7 to .1 : 3.8 (°C)	Container Preservative HEAL No. Type and # Type	* Hally	2	003	y y out				Received by: Ma: Slate Time (Wr War Slaf22) 233	Received by: Via: Come Date Time 9:45 S/21/22	ontracted to other accredited laboratories. This serves as notice of thi
of-Custody Record	g Address: Cole S.	Azter, NM 87410		: 	Accreditation:	(ye)		Date Time Matrix Sample Name	5/20/21 9:15 W NW-16	5/20/24 9:50 W NW-14	5/2/2 10:25 W/W - 20	8/20/2 10:55 W NW -19	6				526/22 1747 Relinquished by: 526/22 1747 CMUDUNU JOO FOLD	If necessary, samples submitted to Hall Environmental may be supco



November 18, 2022

Kyle Summers Ensolum 606 S Rio Grande Ste A Aztec, NM 87410 TEL: (903) 821-5603 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2211646

_ __ _

RE: Lateral K 51 2010

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/10/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 2211646

Date Reported: 11/18/2022

CLIENT	: Ensolum			C	ient Sa	ample I	D: M	W-4	
Project:	Lateral K 51 2010	Collection Date: 11/8/2022 11:25:00 A							
Lab ID:	2211646-001	Matrix:	Matrix: AQUEOUS Received Date: 11/10/2022 7:00:00 AM						
Analyses	5	Re	sult	RL	Qual	Units	DF	Date Analyzed	Batch
EPA ME	THOD 8260: VOLATILES S	HORT LIST						Analyst	: JR
Benzen	e		ND	1.0		µg/L	1	11/16/2022 4:52:00 PM	SL92645
Toluene			ND	1.0		µg/L	1	11/16/2022 4:52:00 PM	SL9264
Ethylber	nzene		ND	1.0		µg/L	1	11/16/2022 4:52:00 PM	SL9264
Xylenes	, Total		ND	1.5		µg/L	1	11/16/2022 4:52:00 PM	SL92648
Surr:	1,2-Dichloroethane-d4		103	70-130		%Rec	1	11/16/2022 4:52:00 PM	SL92648
Surr:	Dibromofluoromethane		107	70-130		%Rec	1	11/16/2022 4:52:00 PM	SL9264
Surr:	Toluene-d8		89.8	70-130		%Rec	1	11/16/2022 4:52:00 PM	SL92645

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- JAnalyte detected below quantitation limitsPSample pH Not In Range
- RL Reporting Limit

Page 1 of 9

Date Reported: 11/18/2022

CLIENT	: Ensolum		Client Sample ID: MW-1									
Project:	Lateral K 51 2010		Collection Date: 11/8/2022 12:00:00 PM									
Lab ID:	2211646-002	Matrix: AQUEOUS Received Date: 11/10/202						/10/2022 7:00:00 AM				
Analyses	5	R	esult	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA ME	THOD 8260: VOLATILES S	HORT LIST						Analyst	JR			
Benzen	e		ND	1.0		µg/L	1	11/16/2022 5:20:37 PM	SL92645			
Toluene	•		ND	1.0		µg/L	1	11/16/2022 5:20:37 PM	SL92645			
Ethylber	nzene		ND	1.0		µg/L	1	11/16/2022 5:20:37 PM	SL92645			
Xylenes	, Total		ND	1.5		µg/L	1	11/16/2022 5:20:37 PM	SL92645			
Surr:	1,2-Dichloroethane-d4		113	70-130		%Rec	1	11/16/2022 5:20:37 PM	SL92645			
Surr:	Dibromofluoromethane		115	70-130		%Rec	1	11/16/2022 5:20:37 PM	SL92645			
Surr:	Toluene-d8		89.2	70-130		%Rec	1	11/16/2022 5:20:37 PM	SL92645			

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

Page 2 of 9

Hall Environmental Ana	alysis Laboratory, Inc.

Date Reported: 11/18/2022

CLIENT: Ensolum		C	ient Sam	ple II): M	W-2					
Project: Lateral K 51 2010		Collection Date: 11/8/2022 12:30:00 PM									
Lab ID: 2211646-003	Matrix: AQUEOUS	Matrix: AQUEOUS Received Date: 11/10/2022 7:00:00 AM									
Analyses	Result	RL	Qual U	nits	DF	Date Analyzed	Batch				
EPA METHOD 8260: VOLATILES S	HORT LIST					Analyst	JR				
Benzene	ND	1.0	μ	g/L	1	11/16/2022 5:49:14 PM	SL92645				
Toluene	ND	1.0	μ	g/L	1	11/16/2022 5:49:14 PM	SL92645				
Ethylbenzene	ND	1.0	μ	g/L	1	11/16/2022 5:49:14 PM	SL92645				
Xylenes, Total	ND	1.5	μ	g/L	1	11/16/2022 5:49:14 PM	SL92645				
Surr: 1,2-Dichloroethane-d4	105 7	0-130	%	6Rec	1	11/16/2022 5:49:14 PM	SL92645				
Surr: Dibromofluoromethane	108 7	0-130	%	6Rec	1	11/16/2022 5:49:14 PM	SL92645				
Surr: Toluene-d8	89.6 7	0-130	%	6Rec	1	11/16/2022 5:49:14 PM	SL92645				

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р Reporting Limit
- RL

Page 3 of 9

Date Reported:	11/18/2022
----------------	------------

CLIENT:	Ensolum		Client Sample ID: MW-17 Collection Date: 11/8/2022 12:55:00 PM								
Project:	Lateral K 51 2010										
Lab ID:	2211646-004	Matrix	AQUEOUS	S	Received Date: 11/10/2022 7:00:00 AM						
Analyses		F	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA MET	HOD 8260: VOLATILES S	HORT LIST						Analyst	JR		
Benzene			ND	1.0		µg/L	1	11/16/2022 6:17:49 PM	SL92645		
Toluene			ND	1.0		µg/L	1	11/16/2022 6:17:49 PM	SL92645		
Ethylben	zene		ND	1.0		µg/L	1	11/16/2022 6:17:49 PM	SL92645		
Xylenes,	Total		ND	1.5		µg/L	1	11/16/2022 6:17:49 PM	SL92645		
Surr: 1	,2-Dichloroethane-d4		102	70-130		%Rec	1	11/16/2022 6:17:49 PM	SL92645		
Surr: E	Dibromofluoromethane		106	70-130		%Rec	1	11/16/2022 6:17:49 PM	SL92645		
Surr: T	Toluene-d8		89.4	70-130		%Rec	1	11/16/2022 6:17:49 PM	SL92645		

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 9

Lab Order 2211646

Date Reported: 11/18/2022

CLIENT:	: Ensolum		Client Sample ID: MW-16								
Project:	Lateral K 51 2010		Collection Date: 11/8/2022 1:30:00 PM								
Lab ID:	2211646-005	Matrix	Matrix: AQUEOUS Received Date: 11/10/2022 7:00:00 AM								
Analyses	8	F	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA ME	THOD 8260: VOLATILES S	HORT LIST						Analyst	JR		
Benzene	e		ND	1.0		µg/L	1	11/16/2022 6:46:27 PM	SL92645		
Toluene			ND	1.0		µg/L	1	11/16/2022 6:46:27 PM	SL92645		
Ethylber	nzene		ND	1.0		µg/L	1	11/16/2022 6:46:27 PM	SL92645		
Xylenes	, Total		ND	1.5		µg/L	1	11/16/2022 6:46:27 PM	SL92645		
Surr:	1,2-Dichloroethane-d4		107	70-130		%Rec	1	11/16/2022 6:46:27 PM	SL92645		
Surr:	Dibromofluoromethane		108	70-130		%Rec	1	11/16/2022 6:46:27 PM	SL92645		
Surr:	Toluene-d8		89.5	70-130		%Rec	1	11/16/2022 6:46:27 PM	SL92645		

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 9

18/2022

CLIENT: Ensolum		Client Sample ID: MW-14									
Project: Lateral K 51 2010		Collection Date: 11/8/2022 2:00:00 PM									
Lab ID: 2211646-006	Matrix: AQUEOUS	Matrix: AQUEOUS Received Date: 11/10/2022 7:00:00									
Analyses	Result	RL	Qual U	U nits	DF	Date Analyzed	Batch				
EPA METHOD 8260: VOLATILES SH	IORT LIST					Analyst	JR				
Benzene	ND	1.0	ł	µg/L	1	11/16/2022 7:15:02 PM	SL92645				
Toluene	ND	1.0	ŀ	ug/L	1	11/16/2022 7:15:02 PM	SL92645				
Ethylbenzene	ND	1.0	ŀ	ug/L	1	11/16/2022 7:15:02 PM	SL92645				
Xylenes, Total	ND	1.5	ŀ	ug/L	1	11/16/2022 7:15:02 PM	SL92645				
Surr: 1,2-Dichloroethane-d4	108 7	0-130	c	%Rec	1	11/16/2022 7:15:02 PM	SL92645				
Surr: Dibromofluoromethane	111 7	0-130	c	%Rec	1	11/16/2022 7:15:02 PM	SL92645				
Surr: Toluene-d8	89.5 7	0-130	c	%Rec	1	11/16/2022 7:15:02 PM	SL92645				

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р Reporting Limit
- RL

Page 6 of 9

Lab Order 2211646

Date Reported: 11/18/2022

CLIENT	: Ensolum		Client Sample ID: MW-19								
Project:	Lateral K 51 2010		Collection Date: 11/8/2022 2:25:00 PM								
Lab ID:	2211646-007	Matrix:	Matrix: AQUEOUS Received Date: 11/10/2022 7:00:00								
Analyses	8	R	lesult	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA ME	THOD 8260: VOLATILES S	HORT LIST						Analyst	JR		
Benzene	e		78	2.0		µg/L	2	11/16/2022 7:43:33 PM	SL92645		
Toluene			ND	2.0		µg/L	2	11/16/2022 7:43:33 PM	SL92645		
Ethylber	nzene		34	2.0		µg/L	2	11/16/2022 7:43:33 PM	SL92645		
Xylenes	, Total		3.2	3.0		µg/L	2	11/16/2022 7:43:33 PM	SL92645		
Surr:	1,2-Dichloroethane-d4		107	70-130		%Rec	2	11/16/2022 7:43:33 PM	SL92645		
Surr:	Dibromofluoromethane		98.1	70-130		%Rec	2	11/16/2022 7:43:33 PM	SL92645		
Surr:	Toluene-d8		92.0	70-130		%Rec	2	11/16/2022 7:43:33 PM	SL92645		

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р Reporting Limit

RL

Page 7 of 9

CLIENT: Ensolum		Client Sample ID: MW-20								
Project: Lateral K 51 2010		Collection Date: 11/8/2022 3:00:00 PM								
Lab ID: 2211646-008	Matrix: AQUEOUS	Matrix: AQUEOUS Received Date: 11/10/2022 7:00								
Analyses	Result	RL	Qual Unit	s D	OF Date Analyzed Batch					
EPA METHOD 8260: VOLATILES SH	IORT LIST				Analyst: JR					
Benzene	ND	1.0	µg/L	1	1 11/16/2022 8:12:03 PM SL9264					
Toluene	ND	1.0	µg/L	1	1 11/16/2022 8:12:03 PM SL9264					
Ethylbenzene	ND	1.0	µg/L	1	1 11/16/2022 8:12:03 PM SL9264					
Xylenes, Total	ND	1.5	µg/L	1	1 11/16/2022 8:12:03 PM SL9264					
Surr: 1,2-Dichloroethane-d4	110 7	0-130	%Re	c 1	1 11/16/2022 8:12:03 PM SL9264					
Surr: Dibromofluoromethane	110 7	0-130	%Re	c 1	1 11/16/2022 8:12:03 PM SL9264					
Surr: Toluene-d8	87.2 7	0-130	%Re	c 1	1 11/16/2022 8:12:03 PM SL9264					

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 8 of 9

QC SUMMARY REPORT

WO#:	2211646

18-Nov-22

Hall Environmental Analysis Laboratory, Inc.

Client:	Ensolum
Project:	Lateral K 51 2010

Sample ID: 100ng Ics	SampT	ype: LC	S	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist			
Client ID: LCSW	Batcl	n ID: SL	92645	R	RunNo: 92645							
Prep Date:	Analysis D	0ate: 11	/16/2022	S	SeqNo: 3	332334	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	19	1.0	20.00	0	95.9	70	130					
Toluene	18	1.0	20.00	0	87.9	70	130					
Surr: 1,2-Dichloroethane-d4	8.8		10.00		87.7	70	130					
Surr: 4-Bromofluorobenzene	9.2		10.00		91.6	70	130					
Surr: Dibromofluoromethane	11		10.00		109	70	130					
Surr: Toluene-d8	8.8		10.00		88.4	70	130					
Sample ID: mb	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8260: Volatile	es Short L	.ist			
Sample ID: mb Client ID: PBW		ype: ME			tCode: El RunNo: 9 2		8260: Volatile	es Short L	ist			
		n ID: SL	92645	R		2645	8260: Volatile Units: μg/L	es Short L	ist			
Client ID: PBW	Batcl	n ID: SL	92645 /16/2022	R	RunNo: 9 2	2645		es Short L %RPD	. ist RPDLimit	Qual		
Client ID: PBW Prep Date:	Batcl Analysis D	n ID: SL Date: 11	92645 /16/2022	R	8unNo: 9 SeqNo: 3	2645 332335	Units: µg/L			Qual		
Client ID: PBW Prep Date: Analyte	Batcl Analysis D Result	n ID: SL Date: 11 PQL	92645 /16/2022	R	8unNo: 9 SeqNo: 3	2645 332335	Units: µg/L			Qual		
Client ID: PBW Prep Date: Analyte Benzene	Batcl Analysis D Result ND	n ID: SL Date: 11 <u>PQL</u> 1.0	92645 /16/2022	R	8unNo: 9 SeqNo: 3	2645 332335	Units: µg/L			Qual		
Client ID: PBW Prep Date: Analyte Benzene Toluene Ethylbenzene	Batch Analysis E Result ND ND	Date: 11 Pate: 11 PQL 1.0 1.0	92645 /16/2022	R	8unNo: 9 SeqNo: 3	2645 332335	Units: µg/L			Qual		
Client ID: PBW Prep Date: Analyte Benzene Toluene	Batch Analysis E Result ND ND ND	Date: 11 PQL 1.0 1.0 1.0	92645 /16/2022	R	8unNo: 9 SeqNo: 3	2645 332335	Units: µg/L			Qual		
Client ID: PBW Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Batch Analysis D Result ND ND ND ND	Date: 11 PQL 1.0 1.0 1.0	92645 I/16/2022 SPK value	R	RunNo: 9 ; SeqNo: 3 ; <u>%REC</u>	2645 332335 LowLimit	Units: µg/L HighLimit			Qual		
Client ID: PBW Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Batch Analysis D Result ND ND ND ND 10	Date: 11 PQL 1.0 1.0 1.0	92645 1/16/2022 SPK value 10.00	R	RunNo: 9 : SeqNo: 3 : <u>%REC</u> 100	2645 332335 LowLimit	Units: µg/L HighLimit 130			Qual		

в

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Qualifiers:

*

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

Page 9 of 9

.

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505		1 Hawkins nue, NM 871 505-345-41	NE 109 Sam 107	ple Log-In C	heck List
Client Name: ENSOLUM	Work Order	Number: 221	1646		RcptNo:	1
Received By: Juan Rojas Completed By: Tracy Casarrubias Reviewed By: JN 11122	11/10/2022 7 11/10/2022 1			Guan En B		
 <u>Chain of Custody</u> 1. Is Chain of Custody complete? 2. How was the sample delivered? 		Yes <u>Cou</u>	⊻ rier	No 🗌	Not Present	
Log In 3. Was an attempt made to cool the sample	s?	Yes		No 🗌	NA 🗆	
4. Were all samples received at a temperatu	re of >0° C to 6.0	°C Yes		No 🗌	NA 🗍	
5. Sample(s) in proper container(s)?		Yes		No 🗌		
6. Sufficient sample volume for indicated tes7. Are samples (except VOA and ONG) prop		Yes Yes		No 🗌 No 🗍		
8. Was preservative added to bottles?		Yes		No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <10. Were any sample containers received broces		Yes Yes		No 🗌 No 🗹	NA # of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗌		>12 unless noted)
12. Are matrices correctly identified on Chain	of Custody?	Yes		No 🗌	Adjusted?	
13. Is it clear what analyses were requested?14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes Yes		No 🗌 No 🗌	Checked by:	me 11/11/22
Special Handling (if applicable)				1	e:	
15. Was client notified of all discrepancies wi	ih this order?	Yes		No 🗆		7
Person Notified: By Whom: Regarding: Client Instructions:		Date: j Via: 🗌 eM	lail 🗌 Pł	none 🗌 Fax	In Person	
16. Additional remarks: 17. <u>Cooler Information</u>						
Cooler No Temp °C Condition 1 0 Good Yes	Seal Intact Sea	I No Seal C)ate	Signed By		
A. 1						

Page 147 of 240		environmental com	4901 Hawki	10	Analysis	*O • (O	s,80 SMI	, 05 120 120 120 120	10 / 0 (1.4(2808) 1 (1.4(2 2 0 8 2 1 2 2 1 2 2 1 2 2 1 2 2 2 2 2 2 2 2	VOV O ³ ' 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5D((833 833 Met 833 (A(A(A(EX / 4 B1 Pes B1 Pes B2 (Me B2 (VC C0 (Se B1 Col F, B1 C0 C0 (VC	85 85 6 8 5 8 6 8 0 8 0 8 1 5		X	X										Sill to Ensolver	Released to Imaging: 8/6/2024 3:47:11 PM
Turn-Around Time:	🗹 Standard 🛛 Rush		Lateral K-SI (2010)	Project #:	65A 1226010	ge		K. Samers	- U	4 of Coolere:	Cooler Temp(Including CF); C. 1- C. 1- C. (°C)	tive	# Type 221	3x40milto Hall, 001	002	003	004	005	000	400	V 000	adjustic additional an excite million in our more a set	models approved that a second provide a second reaction of the second se	1/9/11	Received by: Via: Date Time Date Time	Received by: Via: Date Time	ontracted toother accredited laboratories. This serves as notice of this
Received by OCD: 7/3/2024 12:33:21 PM Chain-of-Custodv Record	Client:	1	Mailing Address: 606 Rio Grande, Switten	84418		email or Fax#: KSummers @ 550 hove ceny	QA/QC Package:	Standard Level 4 (Full Validation)	on:				Date Time Matrix Sample Name	11/8/2411:25 WW-4	11/8/22 n: 00 w MW -)	118/22 12:30 W MW-2	11/8/44 12:37 W W - 17	11812-13.30 W NW - 16	11/2/14:00 W WW-14	1/8/22 14:25 W MW-19	1/8/27-15:00 W WW-20	5 C			Date: CTime: Relinquished by:	Time: Relipquished	If necessary, sanbles submitted to Hall Environmental may be subco Released to Imaging: 8/6/2024 3:47:11 PM



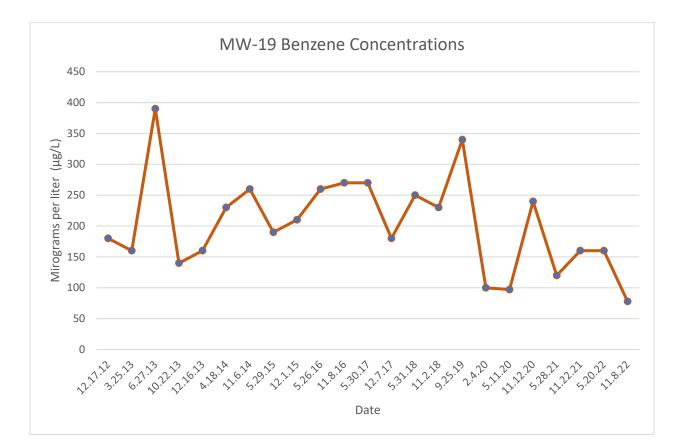
APPENDIX E

Benzene Concentration Chart

Released to Imaging: 8/6/2024 3:47:11 PM

March 22, 2023

2022 Groundwater Monitoring Report Enterprise Field Services, LLC Lateral K-51 Pipeline Release (2010)







July 1, 2024

ENTERPRISE PRODUCTS PARTNERS L.P. ENTERPRISE PRODUCTS GP, LLC (General Partner)

Submitted online via OCD E-Permitting: https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/default.aspx

Mr. Nelson Velez New Mexico Energy, Minerals & Natural Resources Department – Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

2023 Groundwater Monitor	<i>ing Report</i> (Ensolum, April 11, 2024)
2022 Groundwater Monitor	ing Report (Ensolum, March 22, 2023)
2021 Groundwater Monitor	ing Report (Ensolum, March 29, 2022)
Enterprise Field Services, LL	C
Lateral K-51 Pipeline Releas	e (4/13/2010)
Rio Arriba Co., NM	[S34 and 35, T26N R6W (36.4465° N, 107.4461° W)]
OCD RP: 3R-446; Stage 1 A	P-130; Incident No. nAUTOFAB00318
	2022 Groundwater Monitor 2021 Groundwater Monitor Enterprise Field Services, LL Lateral K-51 Pipeline Release Rio Arriba Co., NM

Dear Mr. Velez:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, is pleased to submit to New Mexico Oil Conservation Department (OCD) one electronic copy (online via OCD E-Permitting) of the above-referenced documents (Submittal1, Submittal2, and Submittal3, collectively "Submittals") prepared by Ensolum, LLC (Ensolum). The Submittals are associated with the Enterprise Lateral K-51 release of natural gas condensate liquids that occurred on April 13, 2010 from a natural gas gathering pipeline, located in Rio Arriba County, New Mexico (the "Site"). Submittal1 summarizes on-site activities that occurred between January 1, 2023 and December 31, 2023 ("reporting period" for Submittal2, and Submittal3 summarizes on-site activities conducted between January 1, 2022 and December 31, 2022 ("reporting period" for Submittal2), and Submittal3 summarizes on-site activities conducted between January 1, 2021 and December 31, 2021 ("reporting period" for Submittal3). During each reporting period, on-going groundwater monitoring and sampling (GWM&S) activities were continued to evaluate the magnitude and stability of the dissolved-phase hydrocarbon (DPH) plume in groundwater.

Data presented in the attached Submittals indicate that only the benzene concentrations in monitoring well MW-19 remain in excess of applicable New Mexico Water Quality Control Commission (NMWQCC) Groundwater Quality standards (GQS) and constituents of concern (COC) concentrations are generally stable and/or declining at the Site. Phaseseparated hydrocarbon (PSH) has not been observed at the Site, with the exception of two anomalous events in 2012 (MW-19), which were not visually confirmed. The DPH plume is not currently delineated to the southwest of MW-19 due to an obstruction (silted in or collapsed) of MW-18; however, historical COC concentrations were all below laboratory detection limits for MW-18. Additionally, in comparing current COC data to historical data, the COC exceedances identified at MW-19 appear to be associated with another historical release source. COCs in the original release area have been below laboratory detection limits and/or applicable NMWQCC GQSs since November 2016, or earlier.

Based on the data contained within the attached Submittals, Enterprise plans to: 1) continue conducting semi-annual GWM&S events with annual sampling of monitoring wells MW-3 and MW-11 through MW-13 (as per OCD approval email dated June 8, 2020); 2) install a shallow recovery well up-gradient of monitoring well MW-19 to facilitate enhanced fluid recovery; 3) repair or replace monitoring well MW-18 as described in the *Stage 1 Abatement Plan* (Ensolum, revised May 22, 2019); 4) potentially conduct additional site-specific aquifer characterization; and, 5) prepare a *Stage 2 Abatement Plan*, *if required*, after concurrence that the *Stage 1 Abatement Plan* is deemed administratively complete.

Enterprise appreciates the OCD's continued assistance and guidance in bringing closure to this Site. Should you have any questions, comments, or concerns, or require additional information, please contact Scott Drewry via email (<u>sdrewry@eprod.com</u>) or phone (713-381-5696), or our project consultant Kyle Summers (<u>ksummers@ensolum.com</u>) with Ensolum.

Sincerely,

Jon E. Fields Director, Environmental

cc: BLM, Farmington, NM – Mr. J. Nolan Craun <6251 College Blvd., Suite A, Farmington, NM 87402> Landowner – Mr. Russell Luna < PO Box 753, Bloomfield, NM 87413-0753>

ec: Ensolum, Houston, TX – Mr. Kyle Summers < <u>ksummers@ensolum.com</u> >

P.O. Box 4324 Houston, Texas 77210-4324 713.381.6500 1100 Louisiana Street Houston, Texas 77002-5227 www.epplp.com



2023 GROUNDWATER MONITORING REPORT

Property:

Lateral K-51 Pipeline Release (2010) Unit Letter H of S34 and Unit Letter E of S35 T26N R6W Rio Arriba County, New Mexico

> New Mexico EMNRD OCD RP No. 3RP-446 Abatement Plan No. 130 Incident ID No. nAUTOfAB000318

> > April 11, 2024

Ensolum Project No. 05A1226010

Prepared for:

Enterprise Field Services, LLC

P.O. Box 4324 Houston, Texas 77210-4324 Attn: Mr. Peter Cain

Prepared by:

Ranee Deechilly Project Manager

annual groundwater monitoring report: content satisfactory 1. Continue to conduct semi-annual groundwater monitoring at the site, limiting the sampling frequency for wells MW-3, MW-11, MW-12, and MW-13 to an annual basis until COCs are demonstrating to be below the WQCC human health standards in Title 20 of the NMAC, then transition back to a quarterly schedule. 2. Proceed with plans to install a shallow recovery well upgradient of Kyle Summanonitoring well MW-19 Senior Managingitherolegistor

Review of the 2023

replace MW-18. 3. If aquifer testing is conducted, please notify OCD 4 business days in advance. before activity takes Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consult place. annual report to OCD

by April 1, 2025.

606 South Rio Grande, Suite A | Aztec, NM 87410 | ensolum.com 4. Submit the 2024

Released to Imaging: 8/6/2024 3:47:11 PM

2023 Groundwater Monitoring Report Enterprise Field Services, LLC Lateral K-51 Pipeline Release (2010)

Page i

Executive Summary

This report documents the 2023 groundwater monitoring activities conducted at the Lateral K-51 Pipeline Release (2010) site, referred to hereinafter as the "Site". The Site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in Sections 34 and 35, Township 26 North, Range 6 West, in Rio Arriba County, New Mexico (NM).

On April 13, 2010, a release of natural gas condensate occurred from the Lateral K-51 pipeline. The initial site assessment identified concentrations of constituents of concern (COCs) in soil and groundwater above the applicable NM Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) closure criteria and the NM Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs). Delineation and initial excavation activities conducted between June 2010 and March 2012 identified additional concentrations of COCs above the applicable NM EMNRD OCD closure criteria for soils and above the NM WQCC GQSs for groundwater. During 2011, in-situ chemical oxidation (ISCO) was performed in the immediate area of the release.

Quarterly and semi-annual groundwater monitoring was conducted from 2012 through 2014 and 2015 through 2022, respectively. Groundwater samples collected during these sampling events exhibited concentrations of COCs above the WQCC standards.

The primary objective of the 2023 groundwater monitoring was to further evaluate the concentrations of COCs in groundwater and to monitor COC concentrations over time at the Site.

Findings based on these activities are as follows:

- The groundwater flow direction at the Site is generally towards the northwest, with an approximate average gradient of 0.0085 feet per foot (ft/ft) across the Site.
- Benzene was reported at concentrations exceeding the NM WQCC GQS of 10 micrograms per liter (µg/L) (see footnote in report) in groundwater samples collected from monitoring well MW-19 during the May 2023 and November 2023 sampling events. The groundwater samples collected from the other monitoring wells sampled in 2023 did not exhibit COC concentrations above the applicable WQCC GQSs.
- Monitoring well MW-19 has exhibited relatively stable benzene concentrations since 2012.

Ensolum offers the following recommendations:

- Report the groundwater monitoring results to the NM EMNRD OCD.
- Continue semi-annual groundwater monitoring at the Site, limiting the sampling frequency of monitoring wells MW-3, MW-11, MW-12, and MW-13 to annually, as approved by the NM EMNRD OCD in an email dated June 8, 2020.
- Install a shallow recovery well upgradient of monitoring well MW-19 and repair or replace monitoring well MW-18, as described in the Stage 1 Abatement Plan and as approved by the NM EMNRD OCD in an email dated June 8, 2020. Consider performing aquifer testing after the recovery well has been installed.



Page ii

TABLE OF CONTENTS

1.0 1.1	INTRODUCTION Site Description & Background	
1.2	Project Objective	
2.0	GROUNDWATER MONITORING	2
2.1	Groundwater Laboratory Analytical Methods	3
2.2	Groundwater Flow Direction	4
2.3	Groundwater Data Evaluation	4
3.0	FINDINGS	5
4.0	RECOMMENDATIONS	6
5.0	STANDARDS OF CARE, LIMITATIONS, AND RELIANCE	
5.1	Standard of Care	
5.2	Limitations Reliance	6
5.3		\sim

LIST OF APPENDICES

Appendix A –	Figures Figure 1: Topographic Map Figure 2: Site Vicinity Map Figure 3: Site Map Figure 4A: Groundwater Gradient Map (May 2023) Figure 4B: Groundwater Gradient Map (November 2023) Figure 5A: Groundwater Quality Standard (GQS) Exceedance Zone Map (May 2023) Figure 5B: Groundwater Quality Standard (GQS) Exceedance Zone Map (November 2023)
Appendix B –	Regulatory Correspondence

- Appendix C Tables Table 1: Groundwater Analytical Summary Table 2: Groundwater Elevations
- Appendix D Laboratory Data Sheets & Chain of Custody Documentation
- Appendix E Benzene Concentration Chart



1.0 INTRODUCTION

This report describes the 2023 groundwater monitoring activities conducted at the Lateral K-51 Pipeline Release (2010) site, referred to hereinafter as the "Site".

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral K-51 Pipeline Release (2010)
NM EMNRD OCD Incident ID No.	nAUTOfAB000318
Location:	36.4465° North, 107.4461° West Unit Letter H of Section 34 and Unit Letter E of Section 35, Township 26 North, Range 6 West Rio Arriba County, New Mexico
Property:	United States (US) Bureau of Land Management (BLM) and Private Land
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

1.1 Site Description & Background

On April 13, 2010, an estimated ten barrels of natural gas condensate were released from the Enterprise Lateral K-51 pipeline. The pipeline was subsequently repaired, and remediation activities were initiated to remove hydrocarbon affected soils. Souder, Miller, and Associates (SMA) collected confirmation soil samples and one groundwater sample from the final excavation. The excavation was then backfilled with unaffected soils. Confirmation soil samples collected from the excavation exhibited concentrations of constituents of concern (COCs) above the applicable EMNRD OCD closure criteria for soils. The groundwater sample exhibited concentrations of COCs above the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs) for groundwater.

During June 2010, eight soil borings (BH-1 through BH-8) were advanced by LT Environmental (LTE). Four of the soil borings were completed as groundwater monitoring wells (MW-1 through MW-4). Analytical results from soil samples collected immediately adjacent to the release and near the groundwater interface (BH-1) indicated COC concentrations above the applicable New Mexico EMNRD OCD closure criteria. Analysis of groundwater samples collected from monitoring wells MW-1 through MW-4 indicated COC concentrations above the New Mexico WQCC GQSs (*Site Investigation Report*, LTE, August 9, 2010).

During April 2011, nine soil borings/monitoring wells (SB-9, SB-10, MW-11 through MW-14, SB-15, MW-16, and MW-17) were advanced by Southwest Geoscience (SWG) to further evaluate the extent of dissolved phase COCs in groundwater. Additionally, 15 injection points were installed to facilitate the proposed in-situ chemical oxidation (ISCO) of the COCs utilizing a hydrogen peroxide solution. ISCO activities were performed during May 2011 (*Supplemental Site Investigation and Corrective Action Report*, SWG, October 5, 2011). Based on the distribution of COCs in groundwater, it appears that a former drip valve, tank, or pit may have also provided a historic source of petroleum hydrocarbon impact to groundwater (New Mexico EMNRD OCD reference 3RP-206, *El Paso Natural Gas, Final Pit Closure*) in the vicinity of monitoring well MW-14.

During March 2012, three additional soil borings/monitoring wells (MW-18, MW-19, and MW-20) were advanced near and downgradient of the historic release area to further evaluate the extent of COCs in groundwater (*Supplemental Site Investigation & Corrective Action Work Plan*, SWG,



April 23, 2012). Soil boring/monitoring well MW-18 was advanced west of the presumed location of the historic release, and soil borings/monitoring wells MW-19 and MW-20 were advanced to the north and northwest, respectively, of the presumed location of the historic release.

Quarterly and semi-annual groundwater monitoring was conducted from 2012 through 2014 and 2015 through 2018, respectively. During February 2019, Enterprise assigned management of the project to Ensolum, LLC (Ensolum).

During May of 2019, Enterprise submitted a revised Stage 1 Abatement Plan for this Site to the New Mexico EMNRD OCD (*Revised Lateral K-51 Pipeline Release (2010) Stage 1 Abatement Plan*, Ensolum, May 22, 2019). The New Mexico EMNRD OCD has not approved the plan, and Enterprise has resumed semi-annual groundwater monitoring of the Site.

Groundwater monitoring activities performed between 2019 and 2023 are documented in the following reports:

- 2019 Groundwater Monitoring Report, Ensolum, August 10, 2020
- 2020 Groundwater Monitoring Report, Ensolum, March 19, 2021
- 2021 Groundwater Monitoring Report, Ensolum, March 29, 2022
- 2022 Groundwater Monitoring Report, Ensolum, March 22, 2023

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to oil and gas releases, the New Mexico EMNRD OCD references 19.15.29 New Mexico Administrative Code (NMAC) *Releases*, which establishes investigation and abatement action requirements for sites that are subject to reporting and/or corrective action. Additionally, the New Mexico EMNRD OCD utilizes the New Mexico WQCC GQS (20.6.2 NMAC *Ground and Surface Water Protection*) to evaluate groundwater conditions.¹

The Site location is depicted on **Figure 1** of **Appendix A** which was reproduced from a portion of a United States Geological Survey (USGS) 7.5-minute series topographic map. A **Site Vicinity Map**, created from an aerial photograph, is provided as **Figure 2**, and a **Site Map**, which indicates the approximate locations of the monitoring wells and previous soil boring locations in relation to pertinent structures and general Site boundaries, is included as **Figure 3** of **Appendix A**.

1.2 Project Objective

The objective of the groundwater monitoring was to further evaluate groundwater quality at the Site and evaluate natural attenuation of COC concentrations over time.

2.0 GROUNDWATER MONITORING

Ensolum conducted groundwater sampling events during May 2023 and November 2023. The groundwater sampling program consisted of the collection of one groundwater sample from each of the viable monitoring wells at the Site. Monitoring well MW-18 appears to be obstructed (silted in or collapsed). Water was detected in the well (for the first time since 2018) during the May 2023 event and a sample was collected using a bailer. Based on calculated groundwater elevation, this water appears to be related to a recent rain event (and not representative of groundwater) and was not considered for potentiometric mapping purposes. MW-18 was not sampled during the November 2023 sampling event. On June 8, 2020, the New Mexico EMNRD OCD approved a request to reduce the sampling frequency for monitoring wells MW-3 and MW-11 through MW-13



¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to this legacy site that predates the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

to annually. Therefore, only eight monitoring wells were sampled during the November 2023 sampling event. The New Mexico EMNRD OCD was notified of the sampling events, although no representative was present to observe the sampling activities. Regulatory correspondence is provided in **Appendix B**.

Ensolum's groundwater sampling program consisted of the following:

- Prior to sample collection, Ensolum gauged the depth to fluids in each monitoring well using an interface probe capable of detecting non-aqueous phase liquid (NAPL).
- Each designated monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Following the completion of the micro-purge process, the groundwater sample was collected.
- Low-flow or low-stress sampling refers to sampling methods that are intended to minimize the stress that is imparted to the formation pore water in the vicinity of the well screen. Water level drawdown provides the best indication of the stress that is imparted by a given flow rate for a given hydrological situation. Pumping rates of 0.1 to 0.5 liters per minute (L/min) are typically maintained during the low-flow/low-stress sampling activities, using dedicated or decontaminated sampling equipment.
- During low-flow sampling, groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are typically observed every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for at least three consecutive readings.
- Groundwater samples were collected in laboratory-supplied containers (pre-preserved with mercuric chloride (HgCl₂)), labeled, and sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The groundwater samples were relinquished to the courier for Eurofins Environment Testing South Central, LLC (Eurofins) (formerly Hall Environmental Analysis Laboratory) of Albuquerque, New Mexico under proper chain-ofcustody procedures.

2.1 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during the two sampling events were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing US Environmental Protection Agency (EPA) SW-846 Method #8021.

A summary of the analytes, sample matrix, sample frequency and EPA-approved analytical methods are presented in the following table.

Analyte	Sample Type	No. of Samples (May/Nov)	Method		
BTEX	Groundwater	13/8	SW-846 #8021		

The laboratory analytical results are summarized in **Table 1** in **Appendix C**. The executed chainof-custody forms and laboratory data sheets are provided in **Appendix D**.



2.2 Groundwater Flow Direction

The groundwater flow direction at the Site generally trends toward the northwest. The calculated gradient during the 2023 monitoring events averaged approximately 0.0085 feet per foot (ft/ft) across the Site. Groundwater elevation data collected during the 2023 gauging events are presented in **Table 2** (**Appendix C**). Groundwater gradient maps for the 2023 gauging events are included as **Figure 4A** and **Figure 4B** (**Appendix A**).

2.3 Groundwater Data Evaluation

Ensolum compared the BTEX laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the groundwater samples collected from monitoring wells during the 2023 groundwater sampling events to the New Mexico WQCC GQSs.¹ The results of the analyses are summarized in **Table 1** of **Appendix C**. Groundwater Quality Standard Exceedance Zone Maps are provided as **Figure 5A** and **Figure 5B** of **Appendix A**.

<u>May 2023</u>

- The May 2023 analytical result for monitoring well MW-19 indicates a benzene concentration of 57 micrograms per liter (μg/L), which exceeds the WQCC GQS of 10 μg/L.¹ The analytical results for monitoring wells MW-4 and MW-14 each indicate benzene concentrations of 1.1 μg/L, which are below the WQCC GQS of 10 μg/L.¹ The analytical results for the remaining monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 10 μg/L.¹
- The May 2023 analytical results for the monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 µg/L.¹
- The May 2023 analytical result for monitoring well MW-19 indicates an ethylbenzene concentration of 20 μg/L, which is below the WQCC GQS of 750 μg/L.¹ The analytical results for the remaining monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μg/L.¹
- The May 2023 analytical result for monitoring well MW-4 indicates a total xylene concentration of 2.4 µg/L, which is below the WQCC GQS of 620 µg/L.¹ The analytical results for the remaining monitoring wells do not indicate total xylene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 µg/L.¹
- The following data qualifier was associated with the May 2023 data:

May 2023 Data Qualifier Flag							
Sample IDs	Data Qualifier Flags	Comments/Reactions					
MW-19 (collected 5/25/2023)	Sample Diluted Due to Matrix.	The sample was diluted due to matrix interference. The results are usable for the intended purpose.					



¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to this legacy site that predates the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

November 2023

- The November 2023 analytical result for monitoring well MW-19 indicates a benzene concentration of 200 μg/L, which exceeds the WQCC GQS of 10 μg/L.¹ The analytical results for the remaining sampled monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 10 μg/L.¹
- The November 2023 analytical results for the sampled monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μ g/L.¹
- The November 2023 analytical result for monitoring well MW-19 indicates an ethylbenzene concentration of 41 μg/L, which is below the WQCC GQS of 750 μg/L.¹ The analytical results for the remaining sampled monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 750 μg/L.¹
- The November 2023 analytical results for the sampled monitoring wells do not indicate total xylene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 µg/L.¹
- The following data qualifier was associated with the November 2023 data:

November 2023 Data Qualifier Flag							
Sample IDs	Data Qualifier Flags	Comments/Reactions					
MW-19 (collected 11/20/2023)	Sample Diluted Due to Matrix.	The sample was diluted due to matrix interference. The results are usable for the intended purpose.					

3.0 FINDINGS

Based on the evaluation of the analytical results from the groundwater monitoring activities, Ensolum presents the following findings:

- The groundwater flow direction at the Site is generally towards the northwest, with an approximate average gradient of 0.0085 ft/ft across the Site.
- Benzene was reported at concentrations exceeding the New Mexico WQCC GQS of 10 µg/L in groundwater samples collected from monitoring well MW-19 during the May 2023 and November 2023 sampling events.¹ The groundwater samples collected from the other sampled monitoring wells in 2023 do not exhibit COC concentrations above the applicable WQCC GQSs.¹
- Monitoring well MW-19 has exhibited relatively stable benzene concentrations since 2012 as depicted in the chart provided in **Appendix E**.



¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to this legacy site that predates the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

4.0 **RECOMMENDATIONS**

Based on the results of the groundwater monitoring activities, Ensolum has the following recommendations:

- Report the groundwater monitoring data to the New Mexico EMNRD OCD.
- Continue semi-annual groundwater monitoring at the Site, limiting the sampling frequency of monitoring wells MW-3, MW-11, MW-12, and MW-13 to annually, as approved by the New Mexico EMNRD OCD in an email dated June 8, 2020.
- Install a shallow recovery well upgradient of monitoring well MW-19 and repair or replace monitoring well MW-18, as described in the Stage 1 Abatement Plan and as approved by the NM EMNRD OCD in an email dated June 8, 2020. Consider performing aquifer testing after the recovery well has been installed.

5.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

5.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

5.2 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, and it should be noted that this 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, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

5.3 Reliance

This report has been prepared for the exclusive use of Enterprise, 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 Enterprise and Ensolum. 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 Closure Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



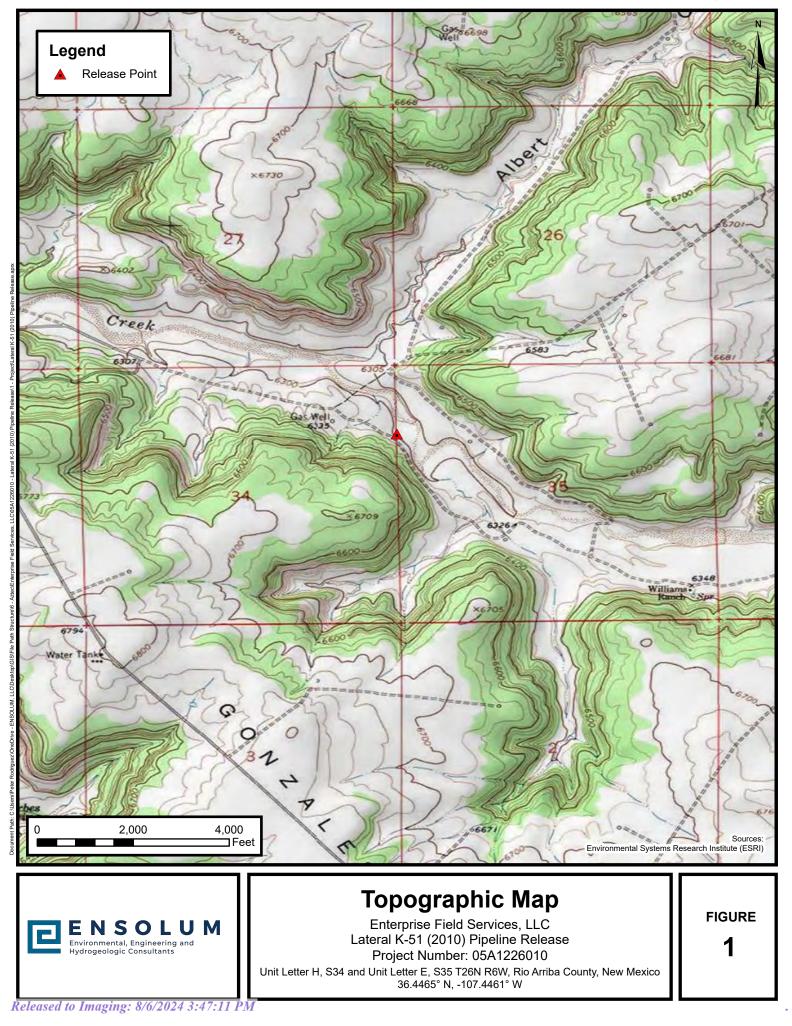


APPENDIX A

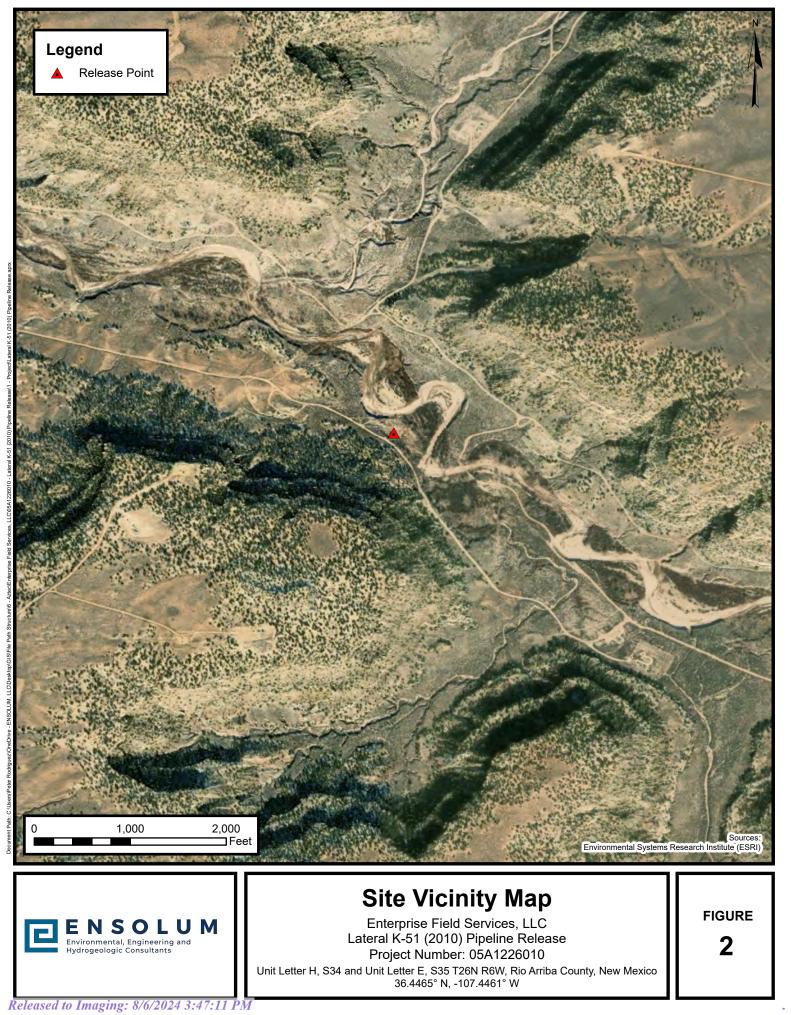
Figures

Released to Imaging: 8/6/2024 3:47:11 PM

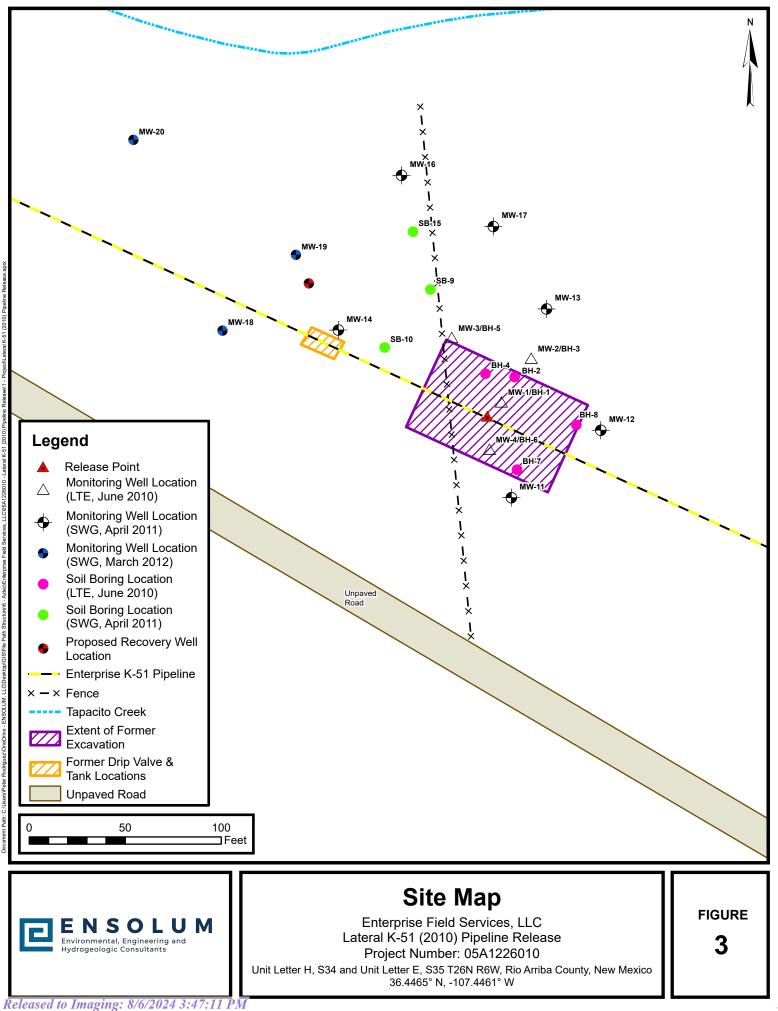
Received by OCD: 7/3/2024 12:33:21 PM



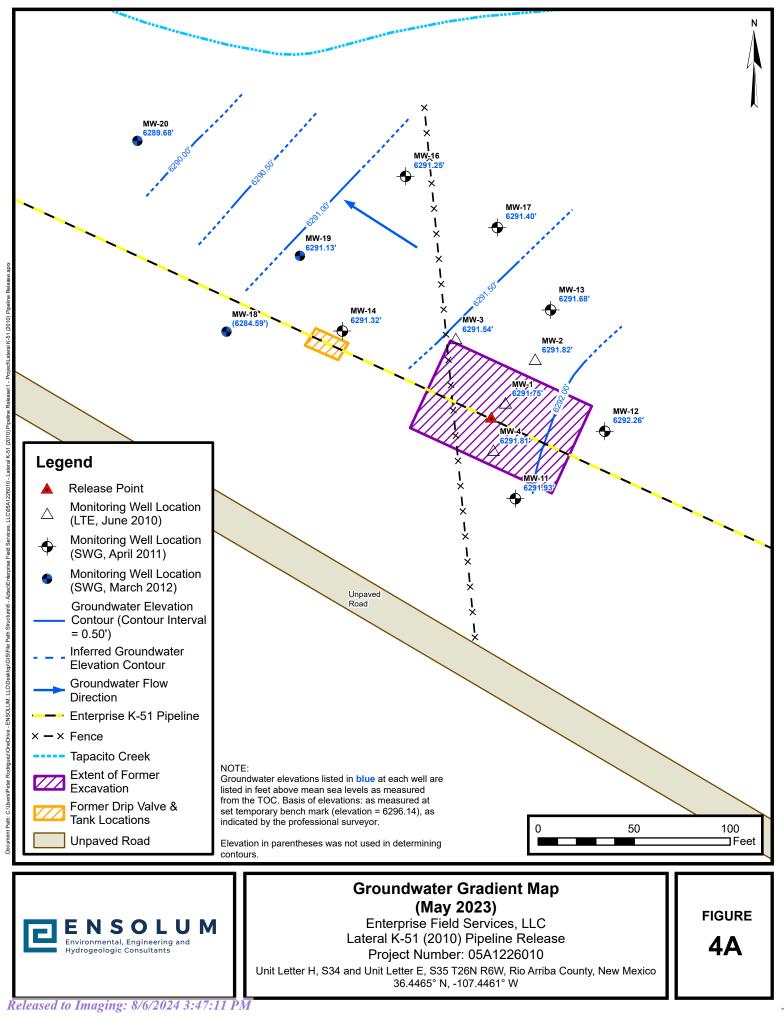
Received by OCD: 7/3/2024 12:33:21 PM



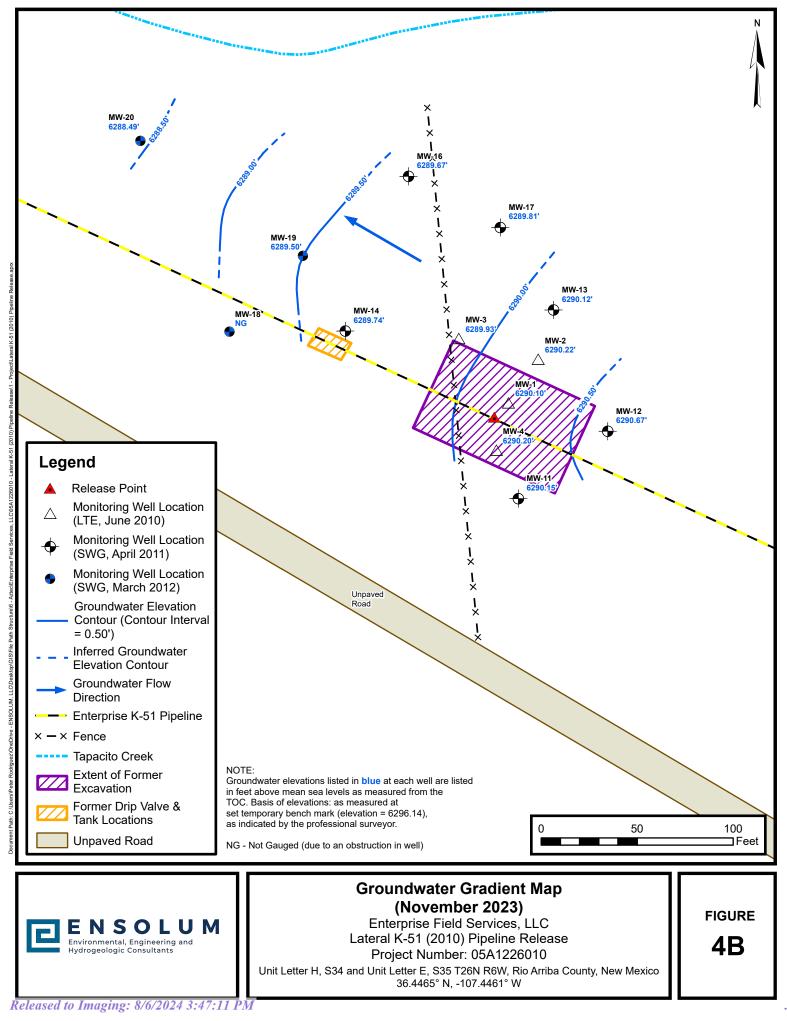


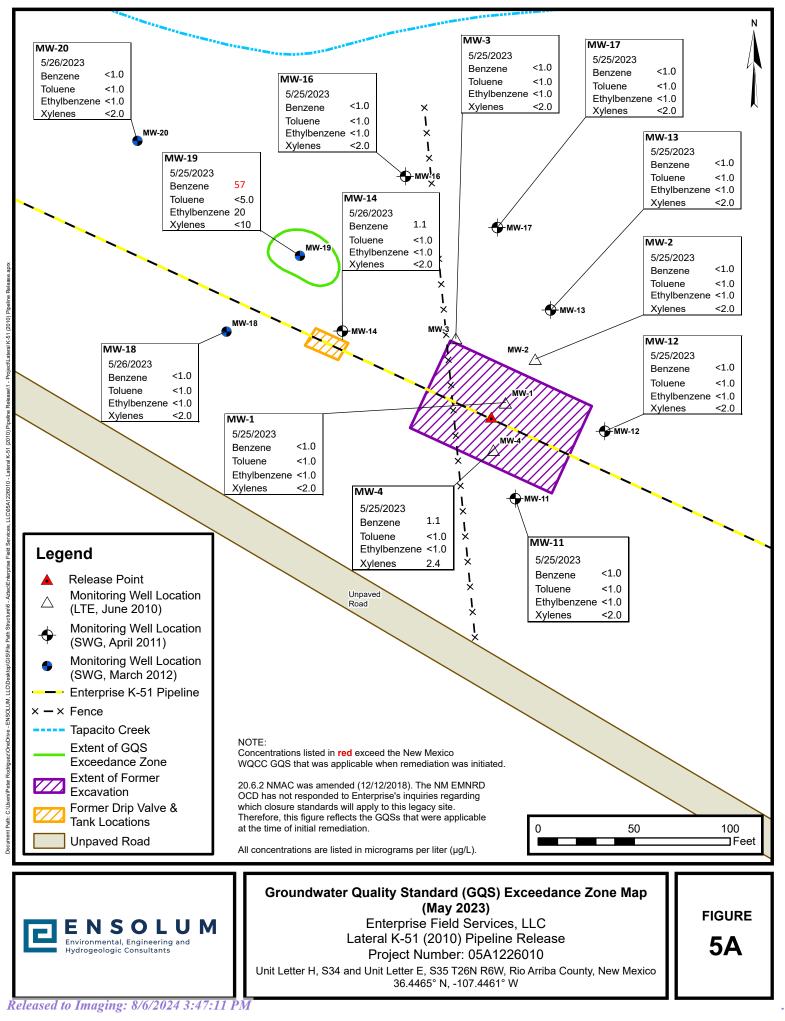


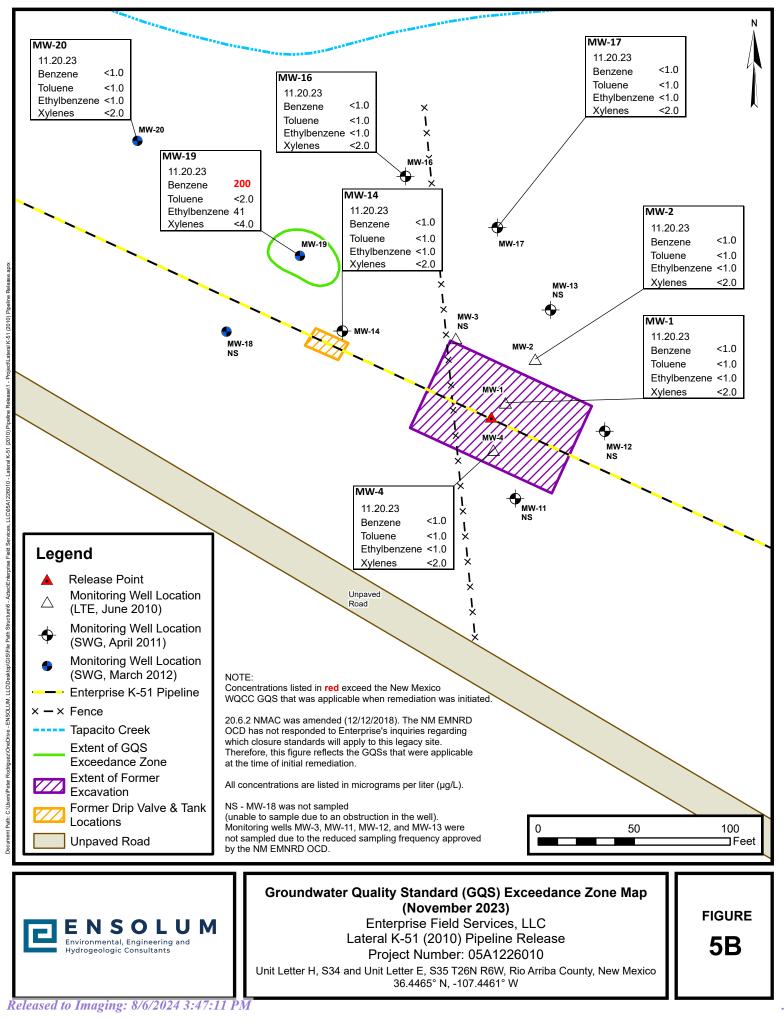
Received by OCD: 7/3/2024 12:33:21 PM



Received by OCD: 7/3/2024 12:33:21 PM









APPENDIX B

Regulatory Correspondence

Released to Imaging: 8/6/2024 3:47:11 PM

From:	Kyle Summers
To:	Ranee Deechilly; Landon Daniell
Subject:	FW: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-346 - Section 34/35 T26N R6W; 36.4465, -107.4461; NMOCD Incident # # NAUTOFAB000318
Date:	Tuesday, November 14, 2023 12:16:35 PM
Attachments:	Outlook-a0unkfod.png image004.png image005.png image006.png

	_
I	E l
	and the second s

Kyle Summers Principal 903-821-5603 Ensolum, LLC

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Sent: Tuesday, November 14, 2023 10:22 AM

To: Long, Thomas <tjlong@eprod.com>; Craun, James N <jcraun@blm.gov>

Cc: Stone, Brian <bmstone@eprod.com>; Drewry, Scott <sdrewry@eprod.com>; Fields, Jon <JEFIELDS@eprod.com>; Kyle Summers <ksummers@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: Re: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-346 - Section 34/35 T26N R6W; 36.4465, -107.4461; NMOCD Incident # NAUTOFAB000318

[**EXTERNAL EMAIL**]

Good morning Tom,

Thank you for the notice.

If an OCD representative is not on-site on the date &/or time given, please proceed with your sampling. For whatever reason, the sample collection timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of the rescheduling may result in the sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

If you have any questions, please contact me via email at your convenience.

Thanks again

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/



From: Long, Thomas <<u>tjlong@eprod.com</u>>

Sent: Tuesday, November 14, 2023 10:09 AM

To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>; Craun, James N <<u>jcraun@blm.gov</u>>Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Drewry, Scott <<u>sdrewry@eprod.com</u>>; Fields, Jon<<<u>JEFIELDS@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>

Subject: RE: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-346 - Section 34/35 T26N R6W; 36.4465, -107.4461; NMOCD Incident # NAUTOFAB000318

Nelson/James,

This email is a notification that Enterprise has scheduled groundwater monitoring and sampling activities at the Lateral K-51 release site to begin Monday, November 20, 2023. Field work is anticipated to take two working days. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>

Sent: Monday, May 22, 2023 3:08 PM

To: Long, Thomas <<u>tjlong@eprod.com</u>>

Subject: Re: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-344 - Section 34/35 T26N R6W; 36.4465, -107.4461

[Use caution with links/attachments]

Tom,

Please note the following corrections;

Admin. Order # is AP-130 Admin. Order # is 3RP-446

Please use incident # NAUTOFAB000318 in future correspondence related to this site.

Lastly, the facility ID: FGVG1414854130 (FYI).

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | <u>nelson.velez@emnrd.nm.gov</u>

http://www.emnrd.state.nm.us/OCD/



From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, May 22, 2023 1:39 PM

To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Miller, Greg <<u>GEMiller@eprod.com</u>>; Kyle Summers
<<u>ksummers@ensolum.com</u>>

Subject: FW: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-344 - Section 34/35 T26N R6W; 36.4465, -107.4461

Nelson,

This email is a notification that Enterprise has scheduled groundwater monitoring and sampling activities at the Lateral K-51 release site to begin Thursday, May 25, 2023. Field work is anticipated to take two working days. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tilong@eprod.com



From: Long, Thomas
Sent: Monday, October 31, 2022 10:24 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Miller, Greg <<u>GEMiller@eprod.com</u>>; Kyle Summers
<<u>ksummers@ensolum.com</u>>; Miller, Greg <<u>GEMiller@eprod.com</u>>
Subject: RE: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-344
- Section 34/35 T26N R6W; 36.4465, -107.4461

Nelson,

This email is a notification that Enterprise has scheduled groundwater monitoring and sampling activities at the Lateral K-51 release site to begin Thursday, November 3, 2022. Field work is anticipated to take one to two working days. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) <u>tilong@eprod.com</u>



From: Velez, Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>
Sent: Friday, May 13, 2022 8:06 AM
To: Long, Thomas <<u>tjlong@eprod.com</u>>

Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Miller, Greg <<u>GEMiller@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>

Subject: RE: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-344 - Section 34/35 T26N R6W; 36.4465, -107.4461

[Use caution with links/attachments] Tom,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please proceed with your sampling. For whatever reason, the sample collection timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of the rescheduling may result in the sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

If you have any questions, please contact me via email at your convenience.

Thanks again

Regards,

Nelson Velez ● Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | <u>nelson.velez@state.nm.us</u>

Hrs.: 7:00–11:00 am & 12:00–3:30 pm Mon.–Thur. 7:00-11:00 am & 12:00-4:00 pm Fri. From: Long, Thomas <tilong@eprod.com>
Sent: Friday, May 13, 2022 7:52 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Miller, Greg <<u>GEMiller@eprod.com</u>>; Kyle Summers
<<u>ksummers@ensolum.com</u>>
Subject: [EXTERNAL] FW: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-344 -

Section 34/35 T26N R6W; 36.4465, -107.4461

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

This email is a notification that Enterprise has scheduled groundwater monitoring and sampling activities at the Lateral K-51 release site to begin Thursday, May 19, 2022. Field work is anticipated to take one working day. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tilong@eprod.com



From: Long, Thomas
Sent: Thursday, November 18, 2021 8:12 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Subject: Lateral K-51 - Groundwater Monitoring and Sampling - AP 103/3RP-344 - Section 34/35 T26N R6W; 36.4465, -107.4461

Cory,

This email is to notify you that Enterprise has scheduled groundwater monitoring and sampling activities at the Lateral K-51 release site to begin Monday, November 22, 2021. Field work is anticipated to take one working day. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



APPENDIX C

Tables

Released to Imaging: 8/6/2024 3:47:11 PM

			TABLE	1			
				Release (2010)			
		GROUNDW	ATER ANALY	TICAL SUMMAR	Y	-	
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	TPH	TPH
Sample I.D.		(μg/L)	(μg/L)	(µg/L)	(μg/L)	GRO	DRO
						(mg/L)	(mg/L)
	ter Quality Control roundwater Quality	10 ^A	750 ^A	7504	cao ^A	NE	NE
	idards	10	750	750 ^A	620 ^A	NE	NE
		SMA	Sample - Oper	n Excavation			•
Excavation	4.21.10	7,000	13,000	540	5,200	NA	NA
		Monito	oring Wells Ins	talled by LTE			
	6.21.10	8,400	1,300	560	4,200	NA	NA
	9.24.10	2,300	28	200	520	8.4	<1.0
	4.21.11	430	<20	120	60	2.1	<1.0
	6.21.11	820	370	33	140	5.1	130
	9.22.11	690	1,200	120	1,200	8.9	30
	12.13.11	260	250	54	650	3.4	<1.0
	3.20.12	280	230	94	550	3.5	<1.0
	6.19.12	300	<5.0	81	96	1.7	<1.0
	9.20.12*	45	3.4	15	23	0.45	<1.0
	12.17.12	34	<1.0	11	16	0.19	<1.0
	3.25.13	41	<1.0	19	32	0.27	<1.0
	6.27.13	24	<1.0	<1.0	36	0.22	<1.0
	10.22.13	39	<1.0	24	13	0.23	<1.0
	12.16.13	10	<1.0	14	11	0.18	<1.0
	4.18.14	23	<1.0	28	86	0.38	1.1
	11.6.14	32	<1.0	27	61	NA	NA
MW-1	5.29.15	11	<1.0	21	55	NA	NA
	12.1.15	5.3	<1.0	4.0	6.2	NA	NA
	5.26.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.16	17	<1.0	1.6	2.4	NA	NA
	5.30.17	4.1	<1.0	<1.0	<1.5	NA	NA
	12.07.17	2.8	<1.0	2.0	<1.5	NA	NA
	5.30.18	3.0	<1.0	<1.0	2.2	NA	NA
	11.2.18	1.2	<1.0	<1.0	<1.5	NA	NA
	9.25.19	1.8	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.25.23	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.20.23	<1.0	<1.0	<1.0	<2.0	NA	NA

			TADLE	4			
		l eterel k					
Lateral K-51 Pipeline Release (2010) GROUNDWATER ANALYTICAL SUMMARY							
<u> </u>	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	ТРН
Sample I.D.	Date			, ,	-	GRO	DRO
Sample I.D.		(μg/L)	(µg/L)	(μg/L)	(μg/L)		
New Mexico Wat	ter Quality Control					(mg/L)	(mg/L)
Commmission G	roundwater Quality	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
Stan	dards						
	6.21.10	200	53	14	96	NA	NA
	9.24.10	2.3	<1.0	<1.0	<2.0	<0.050	<1.0
	4.21.11	3.3	<1.0	<1.0	<2.0	0.065	<1.0
	6.21.11	2.2	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-2	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
10100-2	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.1.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.25.23	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.20.23	<1.0	<1.0	<1.0	<2.0	NA	NA

			TADLE	4			
		l eterel k					
Lateral K-51 Pipeline Release (2010) GROUNDWATER ANALYTICAL SUMMARY							
	Data	1	Toluene	Ethylbenzene		TDU	TDU
Sample I.D.	Date	Benzene		, ,	Xylenes	TPH	TPH
Sample I.D.		(μg/L)	(µg/L)	(μg/L)	(μg/L)	GRO	DRO
New Mexico Wat	er Quality Control					(mg/L)	(mg/L)
	oundwater Quality	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
Stan	dards						
	6.21.10	640	57	72	1,000	NA	NA
	9.24.10	150	<1.0	16	28	0.48	<1.0
	4.21.11	52	<1.0	17	10	0.25	<1.0
	6.21.11	62	14	13	160	0.67	<1.0
	9.22.11	3	<1.0	8.7	<2.0	0.066	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	1.3	<1.0	1.9	<2.0	<0.050	<1.0
	6.19.12	3.1	<1.0	1.4	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-3	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
10100-5	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.30.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.07.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21 ^B	NS	NS	NS	NS	NS	NS
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.22 ^B	NS	NS	NS	NS	NS	NS
	5.25.23	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.20.23 ^B	NS	NS	NS	NS	NS	NS

			TABLE	1			
		l atoral k		Release (2010)			
				TICAL SUMMAR	Y		
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	ТРН
Sample I.D.		(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
		(1-9)	(1-9/-)	(1-9)	(P-9'-)	(mg/L)	(mg/L)
New Mexico Wat	ter Quality Control					(3)	(9)
	roundwater Quality	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
Star	ndards						
	6.21.10	3,600	10,000	600	6,600	NA	NA
	9.24.10	870	870	260	1,600	12	1
	4.21.11	670	<20	520	790	6.3	<1.0
	6.21.11	17	22	36	77	0.64	1.1
	9.22.11	62	140	220	820	3.8	1.2
	12.13.11	84	<20	430	490	2.6	<1.0
	3.20.12	36	<20	1,100	1,400	6.5	<1.0
	6.19.12	37	<5.0	250	350	2.2	<1.0
	9.19.12	9.4	1.4	74	97	0.84	<1.0
	12.17.12	<1.0	<1.0	6.2	9.7	0.12	<1.0
	3.25.13	3.2	<1.0	51	55	1.0	<1.0
	6.27.13	3.9	<1.0	61	60	1.3	<1.0
	10.22.13	<1.0	<1.0	12	3.8	0.13	<1.0
	12.13.13	<1.0	<1.0	16	6.2	0.4	<1.0
	4.17.14	<1.0	<1.0	76	14	0.78	<1.0
	11.6.14	<1.0	<1.0	11	2.9	NA	NA
MW-4	5.29.15	<1.0	<1.0	24	6.1	NA	NA
10100-4	12.1.15	<1.0	<1.0	2.5	2.1	NA	NA
	5.25.16	<1.0	<1.0	7.4	<2.0	NA	NA
	11.8.16	2.4	<1.0	4.8	2.1	NA	NA
	5.26.17	<1.0	<1.0	3.9	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.1.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	2.9	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.22	<1.0	<1.0	<1.0	3.6	NA	NA
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.25.23	1.1	<1.0	<1.0	2.4	NA	NA
	11.20.23	<1.0	<1.0	<1.0	<2.0	NA	NA

				1 Release (2010) TICAL SUMMAR)	(
Sample I.D.	Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (μg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Commmission G	ter Quality Control roundwater Quality idards	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
	Monitoring We	ells Installed I	by Apex TITAN	I (formerly South	west Geoscie	nce)	
	4.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.29.15	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-11	11.30.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21 ^B	NS	NS	NS	NS	NS	NS
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.22 ^B	NS	NS	NS	NS	NS	NS
	5.25.23	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.20.23 ^B	NS	NS	NS	NS	NS	NS

			TABLE	1			
		l atoral k		Release (2010)			
				TICAL SUMMAR	r		
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	ТРН
Sample I.D.	Bute	(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
		(#9,=)	(+9/=/	(µ9/=/	(#9,=)	(mg/L)	(mg/L)
New Mexico Wat	ter Quality Control					(9. =/	(9)
Commission G	roundwater Quality	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
Star	ndards						
	4.21.11	1.9	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	4.6	<1.0	<1.0	<2.0	0.063	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	1.7	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.29.15	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-12	11.30.15	<1.0	<1.0	<1.0	<2.0	NA	NA
10100-12	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.8.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21 ^B	NS	NS	NS	NS	NS	NS
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.22 ^B	NS	NS	NS	NS	NS	NS
	5.25.23	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.20.23 ^B	NS	NS	NS	NS	NS	NS

			TABLE	1			
		L atoral k		Release (2010)			
				TICAL SUMMAR	Y		
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	ТРН
Sample I.D.	Duto	(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
		(1-9)	(1-3/	(1-9/	(1-9)	(mg/L)	(mg/L)
New Mexico Wat	ter Quality Control					((3)
	roundwater Quality	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
Star	ndards						
	4.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.20.12	NS	NS	NS	NS	NS	NS
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.12.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-13	11.30.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.08.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.30.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.01.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.25.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21 ^B	NS	NS	NS	NS	NS	NS
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.21 ^B	NS	NS	NS	NS	NS	NS
	5.25.23	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.20.23 ^B	NS	NS	NS	NS	NS	NS

			TABLE	1			
		l atoral k		Release (2010)			
				TICAL SUMMAR	r		
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	ТРН
Sample I.D.	Buto	(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
		(#9/=/	(µg/=/	(µ9/=/	(#9,=)	(mg/L)	(mg/L)
New Mexico Wat	ter Quality Control					(9/ = /	(9, =)
Commission G	roundwater Quality	10 ^A	750 ^A	750 ⁴	620 ^A	NE	NE
514	4.21.11	2,800	<100	280	720	8.7	<1.0
	6.21.11	470	<100	37	210	1.9	<1.0
	9.22.11	540	<10	100	36	1.3	<1.0
	12.13.11	220	<10	100	<20	1.0	<1.0
	3.20.12	660	<5.0	240	15	2.9	<1.0
	6.19.12	660	<5.0	300	100	3.4	<1.0
	9.20.12*	7.3	<1.0	<1.0	<2.0	0.1	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	1.6	<2.0	<0.050	<1.0
	6.27.13	34	4.4	30	130	0.56	1.4
	10.22.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.16.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.30.15	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-14	5.26.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.7.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.06.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.1.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.20.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.12.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.20.22	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.26.23	1.1	<1.0	<1.0	<2.0	NA	NA
	11.20.23	<1.0	<1.0	<1.0	<2.0	NA	NA

			TABLE	1			
		Latoral k		Release (2010)			
				TICAL SUMMAR	Y		
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	ТРН
Sample I.D.	Buto	(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
		(P-9)	(1-3/	(1-9/	(1-9)	(mg/L)	(mg/L)
New Mexico Wat	ter Quality Control					((3)
	roundwater Quality	10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
Star	ndards						
	4.21.11	4.4	<2.0	<2.0	<4.0	<0.10	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	0.065	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	0.12	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	3.1	<1.0	2.1	14	0.19	<1.0
	3.25.13	<1.0	<1.0	<1.0	<1.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.12.13	1	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	1.4	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	1.2	<1.0	<1.0	<2.0	NA	NA
	5.29.15	3.0	<1.0	<1.0	<2.0	NA	NA
MW-16	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	2.2	<1.0	<1.0	<2.0	NA	NA
	11.7.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.30.17	2.1	<1.0	<1.0	<1.5	NA	NA
	12.7.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.2.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.25.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.12.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.20.22	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.25.23	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.20.23	<1.0	<1.0	<1.0	<2.0	NA	NA

			TABLE	1			
		l atoral k		Release (2010)			
				TICAL SUMMAR	(
	Date	Benzene	Toluene	Ethylbenzene	Xylenes	ТРН	ТРН
Sample I.D.	Buto	(μg/L)	(μg/L)	(μg/L)	(μg/L)	GRO	DRO
		(P3) -)	(1-3/	(1-9)	(1-9)	(mg/L)	(mg/L)
New Mexico Wat	ter Quality Control					(3)	(9)
Commmission Groundwater Quality		10 ^A	750 ^A	750 ^A	620 ^A	NE	NE
Star	idards						
	4.21.11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	6.21.11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.21.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.12.13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.17.14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.28.15	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-17	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.25.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.7.16	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.7.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.1.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.25.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.4.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.22	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.25.23	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.20.23	<1.0	<1.0	<1.0	<2.0	NA	NA

				1 Release (2010) TICAL SUMMAR`	(
Sample I.D.	Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (μg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Commmission G	New Mexico Water Quality Control Commmission Groundwater Quality Standards		750 ^A	750 ⁴	620 ^A	NE	NE
	3.20.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.19.12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.20.12*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	3.25.13	NS	NS	NS	NS	NS	NS
	6.27.13	NS	NS	NS	NS	NS	NS
	10.21.13	NS	NS	NS	NS	NS	NS
	12.12.13	NS	NS	NS	NS	NS	NS
	4.17.14	NS	NS	NS	NS	NS	NS
	11.6.14	NS	NS	NS	NS	NS	NS
	5.29.15	NS	NS	NS	NS	NS	NS
	11.30.15	NS	NS	NS	NS	NS	NS
	5.25.16	NS	NS	NS	NS	NS	NS
MW-18	11.7.16	NS	NS	NS	NS	NS	NS
10100-10	5.26.17	NS	NS	NS	NS	NS	NS
	12.07.17	NS	NS	NS	NS	NS	NS
	5.30.18	NS	NS	NS	NS	NS	NS
	11.1.18	NS	NS	NS	NS	NS	NS
	9.20.19	NS	NS	NS	NS	NS	NS
	1.31.20	NS	NS	NS	NS	NS	NS
	5.8.20	NS	NS	NS	NS	NS	NS
	11.11.20	NS	NS	NS	NS	NS	NS
	5.28.21	NS	NS	NS	NS	NS	NS
	11.22.21	NS	NS	NS	NS	NS	NS
	5.19.22	NS	NS	NS	NS	NS	NS
	11.8.22	NS	NS	NS	NS	NS	NS
	5.26.23	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.20.23	NS	NS	NS	NS	NS	NS

	TABLE 1 Lateral K-51 Pipeline Release (2010)											
				Release (2010) TICAL SUMMAR	(
Sample I.D.	Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)					
Commmission G	New Mexico Water Quality Control Commmission Groundwater Quality Standards		750 ⁴	750 ⁴	620 ^A	NE	NE					
	3.20.12	250	56	310	3,900	16	5.3					
	6.19.12	NAPL	NAPL	NAPL	NAPL	NA	NA					
	9.19.12	NAPL	NAPL	NAPL	NAPL	NA	NA					
	12.17.12	180	<5.0	5.4	23	2.2	2.6					
	3.25.13	160	<5.0	17	<10	1.5	1.4					
	6.27.13	390	<1.0	79	66	2.7	5.9					
	10.22.13	140	<1.0	<1.0	<2.0	0.51	2.1					
	12.16.13	160	<1.0	37	12	1.4	4.2					
	4.18.14	230	<1.0	41	53	2.2	10					
	11.6.14	260	<1.0	75	42	NA	NA					
	5.29.15	190	<1.0	7.2	81	NA	NA					
	12.1.15	210	<1.0	75	23	NA	NA					
	5.26.16	260	<1.0	86	340	NA	NA					
MW-19	11.8.16	270	<1.0	80	190	NA	NA					
10100-15	5.30.17	270	<1.0	88	640	NA	NA					
	12.7.17	180	<1.0	70	150	NA	NA					
	5.31.18	250	<10	83	260	NA	NA					
	11.2.18	230	<5.0	62	280	NA	NA					
	9.25.19	340	<5.0	88	380	NA	NA					
	2.4.20	100	<5.0	51	28	NA	NA					
	5.11.20	97	<5.0	54	15	NA	NA					
	11.12.20	240	<2.0	80	50	NA	NA					
	5.28.21	120	<5.0	63	19	NA	NA					
	11.22.21	160	<5.0	85	14	NA	NA					
	5.20.22		<5.0	54	29	NA	NA					
	11.8.22	78	<2.0	34	3.2	NA	NA					
	5.25.23	57	<5.0	20	<10	NA	NA					
	11.20.23	200	<2.0	41	<4.0	NA	NA					

				1 Release (2010) TICAL SUMMAR [\]	(
Sample I.D.	Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (μg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Commmission G	New Mexico Water Quality Control Commmission Groundwater Quality Standards		750 ^A	750 ⁴	620 ^A	NE	NE
	3.20.12	35	<1.0	1.1	3.3	0.14	<1.0
	6.19.12	3.4	<1.0	<1.0	<2.0	<0.050	<1.0
	9.20.12*	4.7	<1.0	<1.0	<2.0	<0.050	<1.0
	12.17.12*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	3.25.13*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.27.13*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.22.13*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.16.13*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.14*	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	11.6.14*	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.29.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	12.1.15	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.26.16	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-20	11.7.16	<1.0	<1.0	<1.0	<2.0	NA	NA
10100-20	5.30.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.7.17	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.31.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.2.18	<1.0	<1.0	<1.0	<1.5	NA	NA
	9.25.19	<1.0	<1.0	<1.0	<2.0	NA	NA
	1.31.20	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.12.20	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.28.21	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.22.21	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.20.22	<1.0	<1.0	<1.0	<1.5	NA	NA
	11.8.22	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.26.23	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.20.23	<1.0	<1.0	<1.0	<2.0	NA	NA

🖻 ENSOLUM

Note: Concentrations in **bold** and yellow exceed the WQCC GQS that was applicable when remediation was initiated.

^A = NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to this legacy site. Therefore, this table reflects the groundwater quality standards that were applicable at the time of initial remediation.

^B = This monitoring well was not sampled during this sampling event. On June 8, 2020 the New Mexico EMNRD OCD approved Enterprise's request to reduce sampling events in MW-3, MW-11, MW-12, and MW-13 to annually.

* = Monitoring well purged/sampled utilizing disposable bailer during this event

 c = This well was sampled, but the anomolous elevation suggests that the sampled water represents subsurface water that was trapped above the collapsed screen due to the recent high amounts of precipitation.

 μ g/L= micrograms per liter

mg/L= milligrams per liter

NA = Not Analyzed

NS = Not Sampled

NE = Not Established

NAPL = Non-aqueous phase liquid

* = piezometer well was replaced with associated monitoring well

- NAPL = Non-aqueous phase liquid
- TPH = Total Petroleum Hydrocarbon
- GRO = Gasoline Range Organics

DRO = Diesel Range Organics

				TABLE 2				
				1 Pipeline Rel				
			GROUN	DWATER ELEV	ATIONS			
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
				THICKIESS			(foot AMEL)	
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	4.21.11	ND	11.80	ND				6289.09
	6.21.11	ND	12.16	ND				6288.73
	9.22.11	ND	12.92	ND				6287.97
	12.13.11	ND	12.45	ND				6288.44
	3.20.12	ND	12.13	ND				6288.76
	6.19.12	ND	12.76	ND				6288.13
	9.19.12	ND	13.10	ND				6287.79
	12.17.12	ND	12.33	ND				6288.56
	3.15.13	ND	11.88	ND				6289.01
	6.27.13	ND	12.61	ND				6288.28
	10.22.13	ND	11.71	ND				6289.18
	12.12.13	ND	11.35	ND				6289.54
	4.18.14	ND	11.04	ND				6289.85
	11.6.14	ND	11.56	ND				6289.33
	5.28.15	ND	10.86	ND				6290.03
MW-1	11.30.15	ND	10.90	ND	17.71	7.71-17.71	6300.89	6289.99
	5.25.16	ND	10.52	ND			0000.00	6290.37
	11.07.16	ND	11.42	ND				6289.47
	5.26.17	ND	10.41	ND				6290.48
	12.06.17	ND	10.53	ND				6290.36
	5.30.18	ND	10.67	ND				6290.22
	11.01.18	ND	11.59	ND				6289.30
	9.20.19	ND	12.08	ND				6288.81
	1.31.20	ND	11.13	ND]			6289.76
	5.8.20	ND	10.81	ND				6290.08
	11.11.20	ND	11.55	ND				6289.34
	5.28.21	ND	10.92	ND				6289.97
	11.22.21	ND	11.69	ND				6289.20
	5.19.22	ND	10.86	ND				6290.03
	11.8.22	ND	9.88	ND				6291.01
	5.25.23	ND	9.14	ND				6291.75
	11.20.23	ND	10.79	ND				6290.10

				TABLE 2				
				1 Pipeline Rel				
	Data	Danith ta		DWATER ELE		0		Orean description
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
	4.21.11	ND	10.55	ND				6289.27
	6.21.11	ND	11.87	ND				6287.95
	9.22.11	ND	11.86	ND				6287.96
	12.13.11	ND	11.38	ND				6288.44
	3.20.12	ND	10.95	ND				6288.87
	6.19.12	ND	11.64	ND				6288.18
	9.19.12	ND	12.10	ND				6287.72
	12.17.12	ND	11.23	ND				6288.59
	3.15.13	ND	10.65	ND				6289.17
	6.27.13	ND	11.44	ND				6288.38
	10.21.13	ND	10.44	ND				6289.38
	12.12.13	ND	10.09	ND				6289.73
	4.17.14	ND	9.73	ND				6290.09
	11.6.14	ND	10.33	ND				6289.49
	5.28.15	ND	9.61	ND				6290.21
MW-2	11.30.15	ND	9.67	ND	18.45	8.45-18.45	6299.82	6290.15
10100-2	5.25.16	ND	9.34	ND	10.45	0.45-10.45	0299.02	6290.48
	11.07.16	ND	10.24	ND				6289.58
	5.26.17	ND	9.23	ND				6290.59
	12.06.17	ND	9.33	ND				6290.49
	5.30.18	ND	9.46	ND				6290.36
	11.01.18	ND	10.43	ND				6289.39
	9.20.19	ND	10.95	ND				6288.87
	1.31.20	ND	9.91	ND				6289.91
	5.8.20	ND	9.55	ND				6290.27
	11.11.20	ND	10.35	ND				6289.47
	5.28.21 ND 9.68 ND				6290.14			
	11.22.21	ND	10.53	ND				6289.29
	5.19.22	ND	9.62	ND				6290.20
	11.8.22	ND	8.68 ND		6291.14			
	5.25.23	ND	8.00	ND				6291.82
	11.20.23	ND	9.60	ND				6290.22

				TABLE 2				
				1 Pipeline Rel				
				DWATER ELEV				
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
		(,			(,	(,		(
	4.21.11	ND	11.30	ND				6288.92
	6.21.11	ND	11.64	ND				6288.58
	9.22.11	ND	12.45	ND				6287.77
	12.13.11	ND	11.89	ND				6288.33
	3.20.12	ND	11.60	ND				6288.62
	6.19.12	ND	12.22	ND				6288.00
	9.19.12	ND	12.53	ND				6287.69
	12.17.12	ND	11.75	ND				6288.47
	3.15.13	ND	11.37	ND				6288.85
	6.27.13	ND	12.06	ND				6288.16
	10.21.13	ND	11.12	ND	-			6289.10
	12.12.13	ND	10.84	ND				6289.38
	4.17.14	ND	10.55	ND				6289.67
	11.6.14	ND	11.02	ND				6289.20
	5.28.15	ND	10.37	ND				6289.85
MW-3	11.30.15	ND	10.40	ND	18.39	8.39-18.39	6300.22	6289.82
10100-5	5.25.16	ND	10.10	ND	10.55	0.00-10.00	0300.22	6290.12
	11.07.16	ND	10.90	ND				6289.32
	5.26.17	ND	10.00	ND				6290.22
	12.06.17	ND	10.05	ND				6290.17
	5.30.18	ND	10.14	ND				6290.08
	11.01.18	ND	11.07	ND				6289.15
	9.20.19	ND	11.53	ND				6288.69
	1.31.20	ND	10.62	ND				6289.60
	5.11.20	ND	10.31	ND				6289.91
	11.11.20	ND	11.03	ND				6289.19
	5.28.21	ND	10.42	ND				6289.80
	11.22.21 ND 11.16 ND				6289.06			
	5.19.22	ND	10.34	ND				6289.88
		9.38	ND	—			6290.84	
	5.25.23	ND	8.68	ND				6291.54
	11.20.23	ND	10.29	ND				6289.93

	TABLE 2 Lateral K-51 Pipeline Release (2010)										
			GROUN	DWATER ELEV	ATIONS						
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*			
				THICKIESS	(feet BTOC)		(foot AMEL)				
		(feet BTOC)	(feet BTOC)		(leet BIOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)			
-											
	4.21.11	ND	11.90	ND				6289.01			
	6.21.11	ND	12.18	ND				6288.73			
	9.22.11	ND	12.90	ND				6288.01			
	12.13.11	ND	12.41	ND				6288.50			
	3.20.12	ND	12.45	ND	_			6288.46			
	6.19.12	ND	12.72	ND				6288.19			
	9.19.12	ND	13.09	ND				6287.82			
	12.17.12	ND	12.33	ND				6288.58			
	3.15.13	ND	11.85	ND				6289.06			
	6.27.13	ND	12.60	ND				6288.31			
	10.22.13	ND	11.74	ND				6289.17			
	12.12.13	ND	11.37	ND				6289.54			
	4.17.14	ND	11.05	ND				6289.86			
	11.6.14	ND	11.58	ND				6289.33			
	5.28.15	ND	10.91	ND				6290.00			
MW-4	11.30.15	ND	10.94	ND	19.47	9.47-19.47	6300.91	6289.97			
10100-4	5.25.16	ND	10.59	ND	19.47	9.47-19.47		6290.32			
	11.07.16	ND	11.43	ND				6289.48			
	5.26.17	ND	10.47	ND				6290.44			
	12.06.17	ND	10.60	ND				6290.31			
	5.30.18	ND	10.69	ND				6290.22			
	11.01.18	ND	11.58	ND				6289.33			
	9.20.19	ND	12.04	ND				6288.87			
	1.31.20	ND	11.14	ND				6289.77			
	5.8.20	ND	10.83	ND				6290.08			
	11.11.20	ND	11.54	ND]			6289.37			
	5.28.21	ND	10.98	ND				6289.93			
	11.22.21	ND	11.66	ND				6289.25			
	5.19.22	ND	10.89	ND				6290.02			
	11.8.22	ND	9.87	ND]			6291.04			
	5.25.23	ND	9.10	ND				6291.81			
	11.20.23	ND	10.71	ND				6290.20			

				TABLE 2				
				1 Pipeline Rel				
				DWATER ELEV				
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
		(1001 2100)	(1001 2100)		(1001 2100)	(1001 2100)	(1000) (1002)	(10007 41102)
	4.04.44	ND	44.00	ND				0000.04
	4.21.11	ND	11.98	ND	-			6289.21
	6.21.11	ND	12.40	ND	-			6288.79
	-	9.22.11 ND 13.07 ND			6288.12			
	12.13.11	ND	12.55	ND	_			6288.64
	3.20.12	ND	12.26	ND	-			6288.93
	6.19.12	ND	12.93	ND				6288.26
	9.19.12	ND	13.27	ND				6287.92
	12.17.12	ND	12.51	ND				6288.68
	3.15.13	ND	12.05	ND				6289.14
	6.27.13	ND	12.82	ND				6288.37
	10.21.13	ND	11.94	ND				6289.25
	12.12.13	ND	11.61	ND	-			6289.58
	4.17.14	ND	11.25	ND			6301.19	6289.94
	11.6.14	ND	11.80	ND				6289.39
	5.28.15	ND	11.12	ND				6290.07
MW-11	11.30.15	ND	11.18	ND	19.07	9.07-19.07		6290.01
	5.25.16	ND	10.79	ND				6290.40
	11.07.16	ND	11.66	ND				6289.53
	5.26.17	ND	10.66	ND				6290.53
	12.06.17	ND	10.82	ND				6290.37
	5.30.18	ND	10.88	ND				6290.31
	11.01.18	ND	11.82	ND				6289.37
	9.20.19	ND	12.26	ND				6288.93
	1.31.20	ND	11.39	ND				6289.80
	5.8.20	ND	11.07	ND				6290.12
	11.11.20	ND	11.79	ND				6289.40
	5.28.21	ND	11.24	ND				6289.95
	11.22.21	ND	11.92	ND				6289.27
	5.19.22	ND	11.16	ND				6290.03
	11.8.22	ND	10.09	ND	4			6291.10
	5.25.23	ND	9.26	ND				6291.93
<u> </u>	11.20.23	ND	11.04	ND				6290.15

	TABLE 2 Lateral K-51 Pipeline Release (2010)										
				DWATER ELEV							
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*			
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)			
					(,	(,		(
	4.21.11	ND	8.96	ND				6290.12			
	6.21.11	ND	9.42	ND				6289.66			
	9.22.11	ND	10.82	ND				6288.26			
	12.13.11	ND	10.13	ND				6288.95			
	3.20.12	ND	9.41	ND				6289.67			
	6.19.12	ND	10.09	ND				6288.99			
	9.19.12	ND	11.03	ND				6288.05			
	12.17.12	ND	10.21	ND				6288.87			
	3.15.13	ND	9.26	ND				6289.82			
	6.27.13	ND	9.99	ND				6289.09			
	10.21.13	ND	9.09	ND				6289.99			
	12.12.13	ND	8.78	ND				6290.30			
	4.17.14	ND	8.44	ND				6290.64			
	11.6.14	ND	9.05	ND			6299.08	6290.03			
	5.28.15	ND	8.34	ND				6290.74			
MW-12	11.30.15	ND	8.44	ND	18.03	8.03-18.03		6290.64			
10100-12	5.25.16	ND	8.11	ND	10.03	0.00-10.00		6290.97			
	11.07.16	ND	8.87	ND				6290.21			
	5.26.17	ND	8.01	ND				6291.07			
	12.06.17	ND	8.12	ND				6290.96			
	5.30.18	ND	8.27	ND				6290.81			
	11.01.18	ND	9.17	ND				6289.91			
	9.20.19	ND	9.68	ND				6289.40			
	1.31.20	ND	8.71	ND				6290.37			
	5.8.20	ND	8.34	ND				6290.74			
	11.11.20	ND	9.10	ND				6289.98			
	5.28.21	ND	8.48	ND				6290.60			
	11.22.21	ND	9.30	ND				6289.78			
	5.19.22	ND	8.43	ND				6290.65			
	11.8.22	ND	7.48	ND				6291.60			
	5.25.23	ND	6.82	ND				6292.26			
	11.20.23	ND	8.41	ND				6290.67			

				TABLE 2				
				1 Pipeline Rel				
				DWATER ELEV				
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
		()	(((()	()
	4.04.44	ND	0.07	ND				0000.00
	4.21.11	ND	9.07	ND	-			6289.20
	6.21.11	ND	9.51	ND	-			6288.76
	9.22.11	ND	10.15	ND	-			6288.12
	12.13.11	ND	9.59	ND	-			6288.68
	3.20.12	ND	9.35	ND	-			6288.92
	6.19.12	ND	10.09	ND	-			6288.18
	9.19.12	ND	10.29	ND	-			6287.98
	12.17.12	ND	9.47	ND	-			6288.80
	3.15.13	ND	9.11	ND				6289.16
	6.27.13	ND	9.94	ND				6288.33
	10.21.13	ND	8.91	ND				6289.36
	12.12.13	ND	8.57	ND	_			6289.70
	4.17.14	ND	8.39	ND				6289.88
	11.6.14	ND	8.83	ND				6289.44
	5.28.15	ND	8.32	ND			6298.27	6289.95
MW-13	11.30.15	ND	8.21	ND	17.90	7.90-17.90		6290.06
	5.25.16	ND	8.01	ND				6290.26
	11.07.16	ND	8.67	ND				6289.60
	5.26.17	ND	7.83	ND				6290.44
	12.06.17	ND	7.90	ND				6290.37
	5.30.18	ND	8.08	ND				6290.19
	11.01.18	ND	8.84	ND				6289.43
	9.20.19	ND	9.36	ND				6288.91
	1.31.20	ND	8.40	ND				6289.87
	5.11.20	ND	8.17	ND]			6290.10
	11.11.20	ND	8.82	ND]			6289.45
	5.28.21	ND	8.29	ND	j l			6289.98
	11.22.21	ND	8.93	ND				6289.34
	5.19.22	ND	8.18	ND	J			6290.09
	11.8.22	ND	7.24	ND				6291.03
	5.25.23	ND	6.59	ND				6291.68
	11.20.23	ND	8.15	ND				6290.12

				TABLE 2				
				1 Pipeline Rel				
				DWATER ELEV				
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
		(,	(()	(,	(,	(,
	4.21.11	ND	12.54	ND				6288.66
	6.21.11	ND	12.88	ND				6288.32
	9.22.11	ND	13.53	ND				6287.67
	12.13.11	ND	13.11	ND				6288.09
	3.20.12	ND	12.80	ND				6288.40
	6.19.12	ND	13.42	ND				6287.78
	9.19.12	ND	13.70	ND				6287.50
	12.17.12	ND	12.93	ND				6288.27
	3.15.13	ND	12.55	ND				6288.65
	6.27.13	ND	13.26	ND				6287.94
	10.22.13	ND	12.39	ND				6288.81
	12.12.13	ND	12.06	ND				6289.14
	4.18.14	ND	11.79	ND				6289.41
	11.6.14	ND	12.23	ND				6288.97
	5.28.15	ND	11.67	ND			6301.20	6289.53
MW-14	11.30.15	ND	11.62	ND	18.88	8.88-18.88		6289.58
10100-14	5.25.16	ND	11.35	ND	10.00	0.00-10.00		6289.85
	11.07.16	ND	12.09	ND				6289.11
	5.26.17	ND	11.24	ND				6289.96
	12.06.17	ND	11.27	ND				6289.93
	5.30.18	ND	11.36	ND				6289.84
	11.01.18	ND	12.23	ND				6288.97
	9.20.19	ND	12.68	ND				6288.52
	1.31.20	ND	11.78	ND				6289.42
	5.11.20	ND	11.54	ND				6289.66
	11.11.20	ND	12.19	ND				6289.01
	5.28.21	ND	11.65	ND				6289.55
	11.22.21	ND	12.29	ND				6288.91
	5.19.22	ND	11.57	ND				6289.63
	11.8.22	ND	10.60	ND				6290.60
	5.25.23	ND	9.88	ND				6291.32
	11.20.23	ND	11.46	ND				6289.74

	TABLE 2 Lateral K-51 Pipeline Release (2010)										
				DWATER ELEV							
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*			
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)			
					(,	(,		(,			
	4.21.11	ND	12.06	ND				6287.83			
	6.21.11	ND	12.26	ND				6287.63			
	9.22.11	ND	12.57	ND				6287.32			
	12.13.11	ND	12.28	ND				6287.61			
	3.20.12	ND	12.24	ND				6287.65			
	6.19.12	ND	12.71	ND				6287.18			
	9.19.12	ND	12.80	ND				6287.09			
	12.17.12	ND	11.90	ND				6287.99			
	3.15.13	ND	11.80	ND				6288.09			
	6.27.13	ND	12.37	ND				6287.52			
	10.21.13	ND	11.32	ND			6299.89	6288.57			
	12.12.13	ND	10.92	ND				6288.97			
	4.17.14	ND	10.76	ND				6289.13			
	11.6.14	ND	10.99	ND				6288.90			
	5.28.15	ND	10.56	ND				6289.33			
MW-16	11.30.15	ND	10.39	ND	18.01	8.01-18.01		6289.50			
10100-10	5.25.16	ND	10.10	ND	10.01	0.01-10.01		6289.79			
	11.07.16	ND	10.86	ND				6289.03			
	5.26.17	ND	10.02	ND				6289.87			
	12.06.17	ND	10.01	ND				6289.88			
	5.30.18	ND	10.11	ND				6289.78			
	11.01.18	ND	11.02	ND				6288.87			
	9.20.19	ND	11.35	ND				6288.54			
	1.31.20	ND	10.60	ND				6289.29			
	5.11.20	ND	10.32	ND				6289.57			
	11.11.20	ND	10.96	ND				6288.93			
	5.28.21	ND	10.36	ND				6289.53			
	11.22.21 ^A	ND	11.57	ND				6288.32			
	5.19.22	ND	10.17	ND				6289.72			
	11.8.22	ND	9.28	ND				6290.61			
	5.25.23	ND	8.64	ND				6291.25			
	11.20.23	ND	10.22	ND				6289.67			

	TABLE 2 Lateral K-51 Pipeline Release (2010)										
				DWATER ELEV							
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*			
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)			
		(,	((,	(,		(
	4.21.11	ND	9.90	ND				6288.67			
	6.21.11	ND	9.56	ND				6289.01			
	9.22.11	ND	10.83	ND				6287.74			
	12.13.11	ND	10.31	ND				6288.26			
	3.20.12	ND	10.12	ND				6288.45			
	6.19.12	ND	10.81	ND				6287.76			
	9.19.12	ND	10.95	ND				6287.62			
	12.17.12	ND	10.13	ND				6288.44			
	3.15.13	ND	9.85	ND				6288.72			
	6.27.13	ND	10.62	ND				6287.95			
	10.21.13	ND	9.61	ND				6288.96			
	12.12.13	ND	9.28	ND				6289.29			
	4.17.14	ND	9.13	ND				6289.44			
	11.6.14	ND	9.47	ND				6289.10			
	5.28.15	ND	9.00	ND			6298.57	6289.57			
MW-17	11.30.15	ND	8.87	ND	18.16	8.16-18.16		6289.70			
10100-17	5.25.16	ND	8.65	ND	10.10	0.10-10.10		6289.92			
	11.07.16	ND	9.32	ND				6289.25			
	5.26.17	ND	8.56	ND				6290.01			
	12.06.17	ND	8.52	ND				6290.05			
	5.30.18	ND	8.68	ND				6289.89			
	11.01.18	ND	9.48	ND				6289.09			
	9.20.19	ND	9.97	ND				6288.60			
	1.31.20	ND	9.05	ND				6289.52			
	5.11.20	ND	8.83	ND				6289.74			
	11.11.20	ND	9.45	ND				6289.12			
	5.28.21	ND	8.91	ND				6289.66			
	11.22.21	ND	9.56	ND				6289.01			
	5.19.22	ND	8.81	ND				6289.76			
	11.8.22	ND	7.82	ND				6290.75			
	5.25.23	ND	7.17	ND				6291.40			
	11.20.23	ND	8.76	ND				6289.81			

				TABLE 2							
				1 Pipeline Rel							
	GROUNDWATER ELEVATIONS										
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*			
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)			
	3.20.12	ND	16.60	ND				6288.17			
	6.19.12	ND	17.42	ND				6287.35			
	9.19.12	ND	17.45	ND				6287.32			
	12.17.12	ND	16.73	ND				6288.04			
	3.15.13		Blockage					Blockage			
	6.27.13		Blockage		1			Blockage			
	10.22.13		Blockage					Blockage			
	12.12.13		Blockage					Blockage			
	4.17.14		Blockage					Blockage			
	11.6.14		Blockage					Blockage			
	5.28.15		Blockage					Blockage			
	11.30.15		Blockage					Blockage			
	5.25.16		Blockage					Blockage			
MW-18	11.07.16		Blockage		NA	NA	6304.77	Blockage			
10100-10	5.26.17	ND	15.12	ND	114	INA.	0504.77	6289.65			
	12.06.17	ND	15.31	ND				6289.46			
	5.30.18		Blockage					Blockage			
	11.01.18		Blockage					Blockage			
	9.20.19		Blockage					Blockage			
	1.31.20		Blockage					Blockage			
	5.8.20		Blockage					Blockage			
	11.11.20		Blockage					Blockage			
	5.28.21		Blockage					Blockage			
	11.22.21		Blockage					Blockage			
	5.19.22		Blockage					Blockage			
	11.8.22		Blockage					Blockage			
	5.25.23 ^C	ND	13.98	ND				6284.59			
	11.20.23		Blockage					Blockage			

	TABLE 2										
				1 Pipeline Rel							
	GROUNDWATER ELEVATIONS										
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*			
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)			
	3.20.12	ND	15.69	ND				6288.11			
	6.19.12 ^B	16.25	16.32	0.07				6287.52			
	9.19.12 ^B	16.47	16.49	0.02				6287.32			
	12.17.12	ND	15.91	ND				6287.89			
	3.15.13	ND	15.38	ND				6288.42			
	6.27.13	ND	16.19	ND				6287.61			
	10.22.13	ND	15.13	ND				6288.67			
	12.12.13	ND	14.78	ND				6289.02			
	4.18.14	ND	14.68	ND				6289.12			
	11.6.14	ND			6288.81						
	5.28.15	ND	14.60	ND				6289.20			
	11.30.15	ND	14.38	ND				6289.42			
	5.25.16	ND	14.28	ND				6289.52			
MW-19	11.07.16	ND	14.83	ND	23.22	13.22-23.22	6303.80	6288.97			
	5.26.17	ND	14.20	ND	LOILL	TO.LE LO.LE	0000.00	6289.60			
	12.06.17	ND	14.08	ND				6289.72			
	5.30.18	ND	14.27	ND				6289.53			
	11.01.18	ND	15.00	ND				6288.80			
	9.20.19	ND	15.47	ND				6288.33			
	1.31.20	ND	14.56	ND				6289.24			
	5.11.20	ND	14.40	ND				6289.40			
	11.11.20	ND	14.98	ND				6288.82			
	5.28.21	ND	14.53	ND				6289.27			
	11.22.21	ND	15.05	ND				6288.75			
	5.19.22	ND	14.40	ND				6289.40			
	11.8.22	ND	13.48	ND				6290.32			
	5.25.23	ND	12.67	ND				6291.13			
	11.20.23	ND	14.30	ND				6289.50			

				TABLE 2				
				1 Pipeline Rel				
			GROUN	DWATER ELE	ATIONS			
Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	Total Depth of Well	Screen Interval	TOC Elevation	Groundwater Elevation*
		(feet BTOC)	(feet BTOC)		(feet BTOC)	(feet BTOC)	(feet AMSL)	(feet AMSL)
		(1001 1100)	(1000)		(1001 1100)	(1000)		(ICCL AMOL)
-								
	3.20.12	ND	25.82	ND				6286.77
	6.19.12	ND	26.30	ND				6286.29
	9.19.12	ND	26.31	ND				6286.28
	12.17.12	ND	25.42	ND				6287.17
	3.15.13	ND	25.38	ND				6287.21
	6.27.13	ND	26.11	ND				6286.48
	10.22.13	ND	24.98	ND				6287.61
	12.12.13	ND	24.57	ND				6288.02
	4.17.14	ND	24.66	ND				6287.93
	11.6.14	ND	24.81	ND				6287.78
	5.28.15	ND	24.80	ND				6287.79
	11.30.15	ND	24.15	ND				6288.44
	5.25.16	ND	24.28	ND				6288.31
MW-20	11.07.16	ND	24.48	ND	30.51	20.51-30.51	6312.59	6288.11
1111 20	5.26.17	ND	24.37	ND	00.01	20.01 00.01	0012.00	6288.22
	12.06.17	ND	23.95	ND				6288.64
	5.30.18	ND	24.29	ND				6288.30
	11.01.18	ND	24.69	ND]			6287.90
	9.20.19	ND	25.35	ND				6287.24
	1.31.20	ND	24.26	ND]			6288.33
	5.11.20	ND	24.30	ND				6288.29
	11.11.20	ND	24.73	ND]			6287.86
	5.28.21	ND	24.43	ND]			6288.16
	11.22.21	ND	24.70	ND				6287.89
	5.19.22	ND	24.17	ND]			6288.42
	11.8.22	ND	23.40	ND	-			6289.19
	5.25.23	ND	22.91	ND	J			6289.68
	11.20.23	ND	24.10	ND				6288.49

BTOC - below top of casing

TOC - top of casing

* - corrected for presence of phase-sepated hydrocarbon using a specific gravity correction factor of 0.63. Groundwater elevations at each well are listed in feet above mean sea level (AMSL) as measured from the TOC.

Basis of elevation: As measured at set temporary bench mark (elevation = 6296.14), as indicated by the professional surveyor.

^A - Suspected misgauge.

^B - No visual verification. May not be hydrocarbon.

^c - The anomolous elevation suggests that the gauged water represents subsurface water that was trapped above the collapsed screen due to the recent high amounts of precipitation. This elevation was not used to prepare the potentiometric contours on the associated groundwater gradient map.

NA - Not Available

ND - Not Detected



APPENDIX D

Laboratory Data Sheets & Chain of Custody Documentation

Released to Imaging: 8/6/2024 3:47:11 PM



June 06, 2023

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Lateral K 51

OrderNo.: 2305D64

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/26/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall	Environmental	Analysis	Laboratory, Inc.	

Lab Order 2305D64

Date Reported: 6/6/2023

CLIENT: ENSOLUM	Client Sample ID: MW-11									
Project: Lateral K 51		Colle	ection Dat	e: 5/2	25/2023 10:00:00 AM					
Lab ID: 2305D64-001	Matrix: AQUEOUS	Matrix: AQUEOUS Received Date: 5/26/2023 6:55:00 AM								
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch				
EPA METHOD 8021B: VOLATILES					Analys	: JJP				
Benzene	ND	1.0	µg/L	1	5/31/2023 5:30:46 PM	R97131				
Toluene	ND	1.0	µg/L	1	5/31/2023 5:30:46 PM	R97131				
Ethylbenzene	ND	1.0	µg/L	1	5/31/2023 5:30:46 PM	R97131				
Xylenes, Total	ND	2.0	µg/L	1	5/31/2023 5:30:46 PM	R97131				
Surr: 4-Bromofluorobenzene	103 52	.4-148	%Rec	1	5/31/2023 5:30:46 PM	R97131				

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 12

Surr: 4-Bromofluorobenzene

Analytical Report

5/31/2023 5:54:17 PM R97131

Hall Environmental Analysis Laboratory, Inc.	Date Reported: 6/6/2023
Han Environmental Analysis Laboratory, Inc.	Date Reported: 6/6

52.4-148

%Rec

1

Lab Order 2305	D64

Client Sample ID: MW-4					
Collection Date: 5/25/2023 10:40:00					
Matrix: AQUEOUS Received Date: 5/26/2023 6:55:00 AM					
Result	RL Qual	Units	DF	Date Analyzed	Batch
				Analys	: JJP
1.1	1.0	µg/L	1	5/31/2023 5:54:17 PM	R971
ND	1.0	µg/L	1	5/31/2023 5:54:17 PM	R971
ND	1.0	µg/L	1	5/31/2023 5:54:17 PM	R971
2.4	2.0	µg/L	1	5/31/2023 5:54:17 PM	R971
	Result 1.1 ND ND	Matrix: AQUEOUS Receive Result RL 1.1 1.0 ND 1.0 ND 1.0	Collection Date Matrix: AQUEOUS Received Date Result RL Qual Units 1.1 1.0 µg/L ND 1.0 µg/L ND 1.0 µg/L	Collection Date: 5/2 Matrix: AQUEOUS Received Date: 5/2 Result RL Qual Units DF 1.1 1.0 µg/L 1 ND 1.0 µg/L 1 ND 1.0 µg/L 1	Collection Date: 5/25/2023 10:40:00 AM Matrix: AQUEOUS Received Date: 5/26/2023 6:55:00 AM Result RL Qual Units DF Date Analyzed 1.1 1.0 µg/L 1 5/31/2023 5:54:17 PM Analyst ND 1.0 µg/L 1 5/31/2023 5:54:17 PM Analyst ND 1.0 µg/L 1 5/31/2023 5:54:17 PM Analyst

102

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 12

Hall Environmental	Analysis	Laboratory, Inc.	

Date Reported: 6/6/2023

CLIENT: ENSOLUM Project: Lateral K 51	Client Sample ID: MW-12 Collection Date: 5/25/2023 11:15:00 AM					
Lab ID: 2305D64-003	Matrix: AQUEOUS Received Date: 5/26/2023 6:55:00 AM					
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	: JJP
Benzene	ND	1.0	µg/L	1	5/31/2023 6:17:47 PM	R97131
Toluene	ND	1.0	µg/L	1	5/31/2023 6:17:47 PM	R97131
Ethylbenzene	ND	1.0	µg/L	1	5/31/2023 6:17:47 PM	R97131
Xylenes, Total	ND	2.0	µg/L	1	5/31/2023 6:17:47 PM	R97131
Surr: 4-Bromofluorobenzene	101 52	.4-148	%Rec	1	5/31/2023 6:17:47 PM	R97131

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

* **Qualifiers:**

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 12

Date Reported: 6/6/2023

CLIENT: ENSOLUM Project: Lateral K 51	Client Sample ID: MW-1 Collection Date: 5/25/2023 11:50:00					
Lab ID: 2305D64-004	Matrix: AQUEOUS	DUS Received Date: 5/26/2023 6:55:00 AM				
Analyses	Result	RL Ç	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	: JJP
Benzene	ND	1.0	µg/L	1	5/31/2023 6:41:20 PM	R97131
Toluene	ND	1.0	µg/L	1	5/31/2023 6:41:20 PM	R97131
Ethylbenzene	ND	1.0	µg/L	1	5/31/2023 6:41:20 PM	R97131
Xylenes, Total	ND	2.0	µg/L	1	5/31/2023 6:41:20 PM	R97131
Surr: 4-Bromofluorobenzene	103 52	2.4-148	%Rec	1	5/31/2023 6:41:20 PM	R97131

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 12

Hall Environmental Analysis L	Laboratory, Inc.
-------------------------------	------------------

Date Reported: 6/6/2023

CLIENT: ENSOLUM	Client Sample ID: MW-2 Collection Date: 5/25/2023 12:15:00 PM					
Project: Lateral K 51						
Lab ID: 2305D64-005	Matrix: AQUEOUS	US Received Date: 5/26/2023 6:55:00 AM				
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analysi	: JJP
Benzene	ND	1.0	µg/L	1	5/31/2023 7:04:45 PM	R97131
Toluene	ND	1.0	µg/L	1	5/31/2023 7:04:45 PM	R97131
Ethylbenzene	ND	1.0	µg/L	1	5/31/2023 7:04:45 PM	R97131
Xylenes, Total	ND	2.0	µg/L	1	5/31/2023 7:04:45 PM	R97131
Surr: 4-Bromofluorobenzene	101 52	4-148	%Rec	1	5/31/2023 7:04:45 PM	R97131

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

Oualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 12

Analytical Report

Lab Order 2305D64

Date Reported: 6/6/2023

CLIENT: ENSOLUM		Client Samp				
Project: Lateral K 51	Collection Date: 5/25/2023 12:40:00 PM					
Lab ID: 2305D64-006	Matrix: AQUEOUS	Received	Date: 5/	26/2023 6:55:00 AM		
Analyses	Result	RL Qual Ur	nits DF	Date Analyzed	Batch	
EPA METHOD 8021B: VOLATILES				Analyst	: JJP	
Benzene	ND	1.0 µg	ı/L 1	5/31/2023 7:28:10 PM	R97131	
Toluene	ND	1.0 µg	µ/L 1	5/31/2023 7:28:10 PM	R97131	
Ethylbenzene	ND	1.0 µg	µ/L 1	5/31/2023 7:28:10 PM	R97131	
Xylenes, Total	ND	2.0 ua	ı/l 1	5/31/2023 7:28:10 PM		
Ayleries, rola	ND	2.0 µg	<i>µ</i> ∟ I	3/31/2023 7.20.10 FIVI	R97131	

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 12

Hall	Environmental	Analysis	Laboratory, Inc.	

Date Reported: 6/6/2023

CLIENT: ENSOLUM Project: Lateral K 51	Client Sample ID: MW-17 Collection Date: 5/25/2023 1:05:00 PM Matrix: AQUEOUS Received Date: 5/26/2023 6:55:00 AM				
Lab ID: 2305D64-007					
Analyses	Result	RL Qual Unit	s DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analyst	: JJP
Benzene	ND	1.0 µg/L	1	5/31/2023 7:51:33 PM	
					R97131
Toluene	ND	1.0 µg/L	1	5/31/2023 7:51:33 PM	R97131 R97131
Toluene Ethylbenzene	ND ND	1.0 μg/L 1.0 μg/L	1 1	5/31/2023 7:51:33 PM 5/31/2023 7:51:33 PM	
			1 1 1		R97131

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 12

Date Reported: 6/6/2023

CLIENT: ENSOLUM		Client	Sample I	D: M	W-3	
Project: Lateral K 51	Collection Date: 5/25/2023 1:30:00 PM					
Lab ID: 2305D64-008	Matrix: AQUEOUS	Rec	eived Dat	e: 5/2	26/2023 6:55:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	t: JJP
Benzene	ND	1.0	µg/L	1	5/31/2023 8:14:57 PM	R97131
Toluene	ND	1.0	µg/L	1	5/31/2023 8:14:57 PM	R97131
Ethylbenzene	ND	1.0	µg/L	1	5/31/2023 8:14:57 PM	R97131
Malana Tatal	ND	0.0	µg/L	1	5/31/2023 8:14:57 PM	D07404
Xylenes, Total	ND	2.0	µg/∟		J/J 1/2023 0. 14.J/ 1 10	R97131

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

Oualifiers:	
--------------------	--

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

Page 8 of 12

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2305D64

5/31/2023 8:38:16 PM

R97131

atory, Inc.	Date Re

Hall Environmental Analysis Laboratory, Inc.		Date Reported: 6/6/2023				
CLIENT: ENSOLUM		Clien	t Sample II	D: M	W-16	
Project: Lateral K 51		Col	lection Dat	e: 5/2	25/2023 2:05:00 PM	
Lab ID: 2305D64-009	Matrix: AQUEOUS	Re	ceived Dat	e: 5/2	26/2023 6:55:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	1.0	µg/L	1	5/31/2023 8:38:16 PM	R97131
Toluene	ND	1.0	µg/L	1	5/31/2023 8:38:16 PM	R97131
Ethylbenzene	ND	1.0	µg/L	1	5/31/2023 8:38:16 PM	R97131
Xylenes, Total	ND	2.0	µg/L	1	5/31/2023 8:38:16 PM	R97131

98.1

52.4-148

%Rec

1

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

Oualifiers:	*	Value ex
--------------------	---	----------

- xceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 9 of 12

.

Date Reported:	6/6/2023
----------------	----------

CLIENT: ENSOLUM		Cl	ient Sa	ample I	D: M	W-19	
Project: Lateral K 51	Collection Date: 5/25/2023 2:35:00 PM						
Lab ID: 2305D64-010	Matrix: AQUEOUS		Recei	ved Dat	e: 5/2	26/2023 6:55:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analys	t: JJP
Benzene	57	5.0	D	µg/L	5	6/1/2023 12:33:59 PM	BW9713;
Toluene	ND	5.0	D	µg/L	5	6/1/2023 12:33:59 PM	BW9713:
Ethylbenzene	20	5.0	D	µg/L	5	6/1/2023 12:33:59 PM	BW9713;
Xylenes, Total	ND	10	D	µg/L	5	6/1/2023 12:33:59 PM	BW9713;
Surr: 4-Bromofluorobenzene	104 52	4-148	D	%Rec	5	6/1/2023 12:33:59 PM	BW9713;

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

Oualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 10 of 12

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

В

Е

J

Р

RL

Client:	ENSOLUM
Project:	Lateral K 51

Sample ID:	100ng btex lcs	SampT	ype: LC	s	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch	n ID: R9	7131	RunNo: 97131						
Prep Date:		Analysis Date: 5/31/2023			SeqNo: 3526605			Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		18	1.0	20.00	0	89.8	70	130			
Toluene		19	1.0	20.00	0	93.2	70	130			
Ethylbenzene		19	1.0	20.00	0	93.4	70	130			
Xylenes, Total		56	2.0	60.00	0	93.9	70	130			
Surr: 4-Brom	ofluorobenzene	21		20.00		105	52.4	148			
Sample ID:	mb	SampT	уре: МВ	LK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBW	Batch	n ID: R9	7131	F	RunNo: 97	/131				
Prep Date:		Analysis D)ate: 5/3	31/2023	5	SeqNo: 35	526606	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								
Xylenes, Total		ND	2.0								
Surr: 4-Brom	ofluorobenzene	20		20.00		98.5	52.4	148			
					TestCode: EPA Method 8021B: Volatiles						
Sample ID:	2305d64-001ams	SampT	ype: MS	;	Tes	tCode: EF	PA Method	8021B: Volati	les		
•	2305d64-001ams MW-11		ype: MS 1 ID: R9			tCode: EF		8021B: Volati	les		
•			n ID: R9	7131	F		/131	8021Β: Volati Units: μg/L	les		
Client ID:		Batch	n ID: R9	7131 1/2023	F	RunNo: 97	/131		les %RPD	RPDLimit	Qual
Client ID: Prep Date:		Batch Analysis D	n ID: R9 Date: 6/ *	7131 1/2023	F	RunNo: 97 SeqNo: 35	7131 526608	Units: µg/L		RPDLimit	Qual
Client ID: Prep Date: Analyte		Batch Analysis D Result 18 19	n ID: R9 Date: 6/ * PQL	7131 1/2023 SPK value 20.00 20.00	F S SPK Ref Val	RunNo: 97 SeqNo: 38 %REC	7131 526608 LowLimit 70 70	Units: µg/L HighLimit		RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene		Batch Analysis D Result 18 19 19	Date: 6 / PQL 1.0 1.0 1.0	7131 1/2023 SPK value 20.00 20.00 20.00	F SPK Ref Val 0.4200 0 0	RunNo: 97 SeqNo: 38 <u>%REC</u> 88.0 93.2 93.2	7131 526608 LowLimit 70 70 70 70 70	Units: µg/L HighLimit 130 130 130		RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene		Batch Analysis D Result 18 19 19 19 57	Date: 6/ PQL 1.0 1.0	7131 1/2023 SPK value 20.00 20.00 20.00 60.00	F SPK Ref Val 0.4200 0	RunNo: 97 SeqNo: 35 %REC 88.0 93.2 93.2 93.2 94.2	2131 526608 LowLimit 70 70 70 70 70 70 70	Units: µg/L HighLimit 130 130 130 130		RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total		Batch Analysis D Result 18 19 19	Date: 6 / PQL 1.0 1.0 1.0	7131 1/2023 SPK value 20.00 20.00 20.00	F SPK Ref Val 0.4200 0 0	RunNo: 97 SeqNo: 38 <u>%REC</u> 88.0 93.2 93.2	7131 526608 LowLimit 70 70 70 70 70	Units: µg/L HighLimit 130 130 130		RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	MW-11	Batch Analysis D Result 18 19 19 57 20	Date: 6 / PQL 1.0 1.0 1.0	7131 1/2023 SPK value 20.00 20.00 20.00 60.00 20.00	F SPK Ref Val 0.4200 0 0 0	RunNo: 97 SeqNo: 35 %REC 88.0 93.2 93.2 94.2 102	2131 526608 LowLimit 70 70 70 70 70 52.4	Units: µg/L HighLimit 130 130 130 130	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID:	MW-11	Batch Analysis E Result 18 19 19 57 20 SampT	Date: 6/* PQL 1.0 1.0 1.0 2.0	7131 1/2023 SPK value 20.00 20.00 20.00 60.00 20.00 5D	F SPK Ref Val 0.4200 0 0 0 0 Tes	RunNo: 97 SeqNo: 35 %REC 88.0 93.2 93.2 94.2 102	2131 526608 LowLimit 70 70 70 70 70 70 52.4 24	Units: µg/L HighLimit 130 130 130 130 130 148	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID:	MW-11 ofluorobenzene 2305d64-001amsd	Batch Analysis E Result 18 19 19 57 20 SampT	Date: 6/2 PQL 1.0 1.0 2.0 Type: MS	7131 1/2023 SPK value 20.00 20.00 20.00 60.00 20.00 5D 7131	F SPK Ref Val 0.4200 0 0 0 Tes F	RunNo: 97 SeqNo: 38 %REC 88.0 93.2 93.2 93.2 102	7131 526608 LowLimit 70 70 70 70 52.4 PA Method 7131	Units: µg/L HighLimit 130 130 130 130 130 148	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID:	MW-11 ofluorobenzene 2305d64-001amsd	Batch Analysis D Result 18 19 19 57 20 SampT Batch	Date: 6/2 PQL 1.0 1.0 2.0 Type: MS	7131 1/2023 SPK value 20.00 20.00 60.00 20.00 5D 7131 1/2023	F SPK Ref Val 0.4200 0 0 0 Tes F	RunNo: 97 SeqNo: 35 %REC 88.0 93.2 93.2 94.2 102 ttCode: EF RunNo: 97	7131 526608 LowLimit 70 70 70 70 52.4 PA Method 7131	Units: µg/L HighLimit 130 130 130 130 148 8021B: Volati	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date:	MW-11 ofluorobenzene 2305d64-001amsd	Batch Analysis D Result 18 19 19 57 20 SampT Batch Analysis D	Date: 6/ PQL 1.0 1.0 1.0 2.0 Type: MS Date: 6/	7131 1/2023 SPK value 20.00 20.00 60.00 20.00 5D 7131 1/2023	F SPK Ref Val 0.4200 0 0 0 0 Tes F	RunNo: 97 SeqNo: 35 %REC 88.0 93.2 93.2 94.2 102 ttCode: EF RunNo: 97 SeqNo: 35	7131 526608 LowLimit 70 70 70 70 52.4 74 Method 7131 526609	Units: µg/L HighLimit 130 130 130 130 148 8021B: Volati Units: µg/L	%RPD		
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte	MW-11 ofluorobenzene 2305d64-001amsd	Batch Analysis D Result 18 19 19 57 20 SampT Batch Analysis D Result	Date: 6/ PQL 1.0 1.0 1.0 2.0 ype: MS Date: 6/ PQL	7131 1/2023 SPK value 20.00 20.00 20.00 60.00 20.00 5D 7131 1/2023 SPK value	F SPK Ref Val 0.4200 0 0 0 Tes F SPK Ref Val	RunNo: 97 SeqNo: 35 %REC 88.0 93.2 93.2 94.2 102 ttCode: EF RunNo: 97 SeqNo: 35 %REC	7131 526608 LowLimit 70 70 70 52.4 74 Method 7131 526609 LowLimit	Units: µg/L HighLimit 130 130 130 130 148 8021B: Volati Units: µg/L HighLimit	%RPD	RPDLimit	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene	MW-11 ofluorobenzene 2305d64-001amsd	Batch Analysis D Result 18 19 19 57 20 SampT Batch Analysis D Result 18	Date: 6/ PQL 1.0 1.0 1.0 2.0 Type: MS Date: 6/ PQL 1.0	7131 1/2023 SPK value 20.00 20.00 20.00 60.00 20.00 5D 7131 1/2023 SPK value 20.00	F SPK Ref Val 0.4200 0 0 0 Tes F SPK Ref Val 0.4200	RunNo: 97 SeqNo: 35 %REC 88.0 93.2 93.2 93.2 94.2 102 ttCode: EF RunNo: 97 SeqNo: 35 %REC 86.3	7131 526608 LowLimit 70 70 70 70 52.4 74 Method 7131 526609 LowLimit 70	Units: µg/L HighLimit 130 130 130 130 148 8021B: Volati Units: µg/L HighLimit 130	%RPD les %RPD 1.88	RPDLimit 20	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	MW-11 ofluorobenzene 2305d64-001amsd	Batch Analysis D Result 18 19 19 57 20 SampT Batch Analysis D Result 18 18	Pate: 6/ PQL 1.0 1.0 1.0 2.0 Type: MS Date: 6/ PQL 1.0 1.0 1.0 1.0 1.0	7131 1/2023 SPK value 20.00 20.00 20.00 60.00 20.00 7131 1/2023 SPK value 20.00 20.00	F SPK Ref Val 0.4200 0 0 0 Tes 5 SPK Ref Val 0.4200 0	RunNo: 97 SeqNo: 38 %REC 88.0 93.2 93.2 93.2 94.2 102 ttCode: EF RunNo: 97 SeqNo: 38 %REC 86.3 90.6	7131 526608 LowLimit 70 70 70 70 52.4 74 Method 7131 526609 LowLimit 70 70 70 70 70 70 70 70 70 70	Units: µg/L HighLimit 130 130 130 130 130 148 8021B: Volati Units: µg/L HighLimit 130 130	%RPD les %RPD 1.88 2.83	RPDLimit 20 20	

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.

WO#: 2305D64

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2305D64 06-Jun-23

WO#:

Project: Lateral	K 51									
Sample ID: 100ng btex lcs	Samp	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW	Batc	Batch ID: BW97133 RunNo: 97133								
Prep Date:	Analysis [Date: 6/*	1/2023	SeqNo: 3528228			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.9	70	130			
Toluene	18	1.0	20.00	0	90.8	70	130			
Ethylbenzene	18	1.0	20.00	0	91.1	70	130			
Xylenes, Total	55	2.0	60.00	0	91.5	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		99.1	52.4	148			
Sample ID: mb	Samp	Гуре: МЕ	BLK	Tes	tCode: Ef	PA Method	8021B: Volati	es		
Client ID: PBW	Batc	h ID: BW	/97133	33 RunNo: 97133						
Prep Date:	Analysis [Date: 6/	1/2023	S	SeqNo: 3	528229	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				
Xylenes, Total		ND	2.0				
Surr: 4-Bromofl	uorobenzene	20		20.00	98.1	52.4	148

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 12

HALL ENVIRONMENTA ANALYSIS LABORATORY	L <i>TEL: 505-345</i>	nental Analysis Labora 4901 Hawkins Albuquerque, NM 87 5-3975 FAX: 505-345-4 ww.hallenvironmental.	NE 7109 Sam 7107	nple Log-In C	heck List
Client Name: ENSOLUM	Work Order Nu	mber: 2305D64		RcptNo:	1
Received By: Tracy Casa	nrubias 5/26/2023 6:55:0	0 AM			
Completed By: Tracy Casa	arrubias 5/26/2023 8:02:2	4 AM			
Reviewed By: 15-2	6-23				
Chain of Custody					
1. Is Chain of Custody comple	ete?	Yes 🗌	No 🗹	Not Present	
2. How was the sample delive	red?	Courier			
Log In 3. Was an attempt made to co	ool the samples?	Yes 🔽	No 🗌	NA 🗌	
4. Were all samples received	at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in proper contain	ner(s)?	Yes 🔽	No 🗌		
6. Sufficient sample volume for	r indicated test(s)?	Yes 🔽	No 🗌		
7. Are samples (except VOA a	and ONG) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to	bottles?	Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with	headspace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containe	rs received broken?	Yes	No 🗹	# of preserved	
11. Does paperwork match both (Note discrepancies on cha		Yes 🔽	No 🗌	-	>12 unless noted)
12. Are matrices correctly ident	ified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses we	re requested?	Yes 🗹	No 🗌		2012/2012
14. Were all holding times able (If no, notify customer for a		Yes 🗹	No 🗌	Checked by:	Jus [26]C.
<u>Special Handling (if app</u>	licable)		1.		
15. Was client notified of all dis	screpancies with this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Da	ite:			
By Whom:	Via	a: 🗌 eMail 🗌 P	hone 🗌 Fax	In Person	
Regarding:				and a second of the second	
Client Instructions:	Phone number not on COC- TMC 5/	25/23			
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp °C 1 4.7	ConditionSeal IntactSeal NoGoodYesYogi	o Seal Date	Signed By		

•

Released to Imaging: 8/6/2024 3:47:11 PM

Page 217 of 240

\geq
_
-
Ci.
00
00
1.1
14
0
-
4
Ci.
0
~
2
~
5
-
63
\sim
0
\sim
-
. 2
2
-
3
2
-
* 1000
0
5
6
~

0
4
Q.
4
0
-
00
The second se
218
0
0.0
8
2

	ANALYSIS LABORATORY	www.hallenvironmental.com 4901 Hawkins NF - Albucuerue NM 87100	10	Analysis Request	*0 (0	PO4, S SMIS PCB's D / MR) NO ^{3,} 1 8520 8085 9085	VOA des/ des/ da 50 d 50 d 50 d 50 d 50 d 50 d 50 d 5	astici ethod y 83 Met Met Met Met	12212012000000000000000000000000000000	- 3 1 1 1 1 2 2 2 3 3 3										Remarks:		Bill to Enselm	V bility. Any sub-contracted data will be clearly notated on the analytical report
Turn-Around Time:	X Standard C Rush Project Name:	Lateral K-51	Project #:	0541226010		Summers	" L. Danier	I NO MENT	(including CF): 4 9-0.2-4.7 (°C)	Container Preservative HEAL No.	CA A-CIL 001	10	X X X	X hoo	X	X 000	X too	N N N N N N N N N N N N N N N N N N N	X	V V OIO X	Date Time	20	Received by: Via:Counter Date Time 6:55	ontracted to other accredited laboratories. This serves as notice of this possi
Chain-of-Custody Record	unin Eusalam, LIC	Mailing Address: Web Se Real San Left			email or Fax#: A Survey A contra Co Project Manager:	QA/QC Package:	Accreditation:	EDD (Type)		Date Time Matrix Sample Name	1.1 ~ MW OCH 00:01 ENERS	1540 WW -4	11:55 MW-12	11:50 Murl	2-MW SIZI	12:40 MW - 13	1305 MW-17	13:30 WM - 3	14:05 , MW-16	4 19:35 V WW 19	Date: Time: Relinquished by:	vc 21 ~/	Dasp 1804 Matheman	If necessary, samples submitted to Hall Empiropmental 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 renort



June 01, 2023

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX:

OrderNo.: 2305E17

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Lateral K 51

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/27/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2305E17

Date Reported: 6/1/2023

CLIENT: ENSOLUM	Client Sample ID: MW-14								
Project: Lateral K 51	Collection Date: 5/26/2023 11:10:00 AM								
Lab ID: 2305E17-001	Matrix: AQUEOUS	Received Date: 5/27/2023 9:00:00 AM							
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch			
EPA METHOD 8021B: VOLATILES					Analyst	: JJP			
Benzene	1.1	1.0	µg/L	1	5/31/2023 10:11:54 PM	R9713 ²			
Toluene	ND	1.0	µg/L	1	5/31/2023 10:11:54 PM	R97131			
Ethylbenzene	ND	1.0	μg/L	1	5/31/2023 10:11:54 PM	R97131			
Xylenes, Total	ND	2.0	μg/L	1	5/31/2023 10:11:54 PM	R97131			
	98.0 52	.4-148	%Rec		5/31/2023 10:11:54 PM	R97131			

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

Qualifiers:	*	Value exce
-------------	---	------------

- eeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 4

Analytical Report Lab Order 2305E17

Hall Environmental Analysis Laboratory, Inc.	
--	--

Date Reported:	6/1/2023
----------------	----------

CLIENT: ENSOLUM	Client Sample ID: MW-18								
Project: Lateral K 51	Collection Date: 5/26/2023 11:45:00 AM								
Lab ID: 2305E17-002	Matrix: AQUEOUS Received Date: 5/27/2023 9:00:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 8021B: VOLATILES					Analys	t: JJP			
Benzene	ND	1.0	µg/L	1	5/31/2023 10:35:21 PM	R97131			
Toluene	ND	1.0	µg/L	1	5/31/2023 10:35:21 PM	R97131			
Ethylbenzene	ND	1.0	µg/L	1	5/31/2023 10:35:21 PM	R97131			
Xylenes, Total	ND	2.0	µg/L	1	5/31/2023 10:35:21 PM	R97131			
Surr: 4-Bromofluorobenzene	97.1 52	.4-148	%Rec	1	5/31/2023 10:35:21 PM	R97131			

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

Page 2 of 4

Analytical Report Lab Order 2305E17

Date Reported: 6/	1/2023
-------------------	--------

CLIENT: ENSOLUM	Client Sample ID: MW-20							
Project: Lateral K 51		Collection Dat	e: 5/26/2023 12:25:00 PM					
Lab ID: 2305E17-003	Matrix: AQUEOUS Received Date: 5/27/2023 9:00:00 AM							
Analyses	Result	RL Qual Units	DF Date Analyzed	Batch				
EPA METHOD 8021B: VOLATILES			Analyst:	JJP				
Benzene	ND	1.0 µg/L	1 5/31/2023 10:58:41 PM					
		- 10 P		R97131				
Toluene	ND	1.0 µg/L	1 5/31/2023 10:58:41 PM					
Toluene Ethylbenzene	ND ND		1 5/31/2023 10:58:41 PM 1 5/31/2023 10:58:41 PM	R97131				
		1.0 μg/L		R97131 R97131 R97131 R97131				

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 4

ENSOLUM

Lateral K 51

Client:

Project:

Hall Environmental Analysis Laboratory, Inc.

un j,	1110.		

T					
-	-	-			

01-Jun-23

Sample ID: 100ng btex lcs	Samp⁻	SampType: LCS TestCode: EPA Method 8			8021B: Volati	les				
Client ID: LCSW	Batc	h ID: R9 '	7131	RunNo: 97131						
Prep Date:	Analysis [Date: 5/3	31/2023	S	SeqNo: 3	526605	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.8	70	130			
Toluene	19	1.0	20.00	0	93.2	70	130			
Ethylbenzene	19	1.0	20.00	0	93.4	70	130			
Xylenes, Total	56	2.0	60.00	0	93.9	70	130			
Surr: 4-Bromofluorobenzene	21		20.00		105	52.4	148			
Sample ID: mb	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBW	Batc	h ID: R9 '	7131	F	RunNo: 9 7	7131				
Prep Date:	Analysis [Date: 5/3	31/2023	S	SeqNo: 3	526606	Units: µg/L			
A 1.	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	Result	IQL			/0.120					
Analyte Benzene	ND	1.0	or revalue		/01120					
Benzene					,					
Benzene Toluene	ND	1.0			,					
	ND ND	1.0 1.0			<u></u>					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

Page 4 of 4

WO#: 2305E17

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TE	ll Environmen L: 505-345-3 Website: www	4901 Albuquerqu 975 FAX: 5	Hawkins N e, NM 8710 05-345-410	72 99 Sai 97	mple Log-In Ch	eck List
Client Name: ENSOLUM	Work	Order Num	ber: 2305	E17		RcptNo: 1	
Received By: Tracy Casarrubia	s 5/27/20	23 9:00:00	AM				
Completed By: Tracy Casarrubias	s 5/27/20	23 10:48:16	AM				
Reviewed By: 7n5/30/2	23						
Chain of Custody							
1. Is Chain of Custody complete?			Yes		No 🗹	Not Present	
2. How was the sample delivered?			<u>Couri</u>	er			
Log In							
3. Was an attempt made to cool the s	samples?		Yes	✓	No 🗌	NA 🗌	
4. Were all samples received at a terr	perature of >0° C	to 6.0°C	Yes	~	No 🗌	na 🗍	
5. Sample(s) in proper container(s)?			Yes	✓	No 🗌		
6. Sufficient sample volume for indica	ted test(s)?		Yes		No 🗌		
7. Are samples (except VOA and ON	G) properly preserve	ed?	Yes		No 🗌		
8. Was preservative added to bottles?			Yes [No 🗹	NA 🗌	
9. Received at least 1 vial with heads	pace <1/4" for AO \	(OA?	Yes		No 🗌		
10. Were any sample containers receiv		0,11			No 🗹		/
						# of preserved bottles checked	
11. Does paperwork match bottle labels			Yes		No 🗌	for pH:	2 unless noted)
(Note discrepancies on chain of cus 12. Are matrices correctly identified on	• ·		Yes	7	No 🗌	Adjusted?	uniess noted)
13. Is it clear what analyses were reque	-		-	2	No 🗌		. ,
14. Were all holding times able to be m			Yes		No 🗆	Checked by: TM	5/27/23
(If no, notify customer for authoriza	tion.)					· · · · ·	
Special Handling (if applicable	<u>e)</u>						
15. Was client notified of all discrepan	cies with this order	>	Yes	3	No 🗌	NA 🔽	
Person Notified:		Date:	1		dan makan makan ing		
By Whom:		Via:	🗌 eMai	I 🗌 Phor	ne 🗌 Fax	In Person	
Regarding:							
Client Instructions: Phone r	umber is missing o	n COC- TM	C 5/27/23				
16. Additional remarks:							
17. <u>Cooler Information</u>			• • •			1	
Cooler No Temp °C Cond 1 1.9 Good	tion Seal Intact Yes	Seal No Yogi	Seal Dat	e Si	gned By		
1h	1.22	- 3.					

	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	BTEX / MTBE/TMB's (8021) BTEX / MTBE/TMB's (8021) B081 Pesticides/8082 PCB's FDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ B260 (VOA) B260 (VOA) B270 (Semi-VOA) Total Coliform (Present/Absent) Total Coliform (Present/Absent)	X X X X X X X X X X X X X X X X X X X	I be clearly notated c
ustody Record Turn-Around Tirr A Standard Project Name:	OF DE LOS Grande Derige A - Car - Ca	Coole Name Name Name Content Name Coole		MMF MQM 2024 3:47:17 PMM Butcontracted to other accredited laboratories.
Client: Ener lun	Phone #:	Fax#:		Released to Imaging: 8%

Received by OCD: 7/3/2024 12:33:21 PM



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 05, 2023

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX:

RE: Lateral K 51 2010

OrderNo.: 2311B25

Dear Kyle Summers:

Eurofins Environment Testing South Central, LLC received 8 sample(s) on 11/21/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 2311B25

Date Reported: 12/5/2023

%Rec 1 11/28/2023 7:08:54 PM BW1014

			-				
CLIENT: ENSOLUM		Client Sample I	D: MW-4				
Project: Lateral K 51 2010	Collection Date: 11/20/2023 10:10:00 AM						
Lab ID: 2311B25-001	Matrix: AQUEOUS Received Date: 11/21/2023 7:10:00 AM						
Analyses	Result	RL Qual Units	DF Date Analyzed Batch				
EPA METHOD 8021B: VOLATILES			Analyst: JJP				
Benzene	ND	1.0 µg/L	1 11/28/2023 7:08:54 PM BW1014				
Toluene	ND	1.0 μg/L	1 11/28/2023 7:08:54 PM BW1014				
Ethylbenzene	ND	1.0 μg/L	1 11/28/2023 7:08:54 PM BW1014				
Xylenes, Total	ND	2.0 μg/L	1 11/28/2023 7:08:54 PM BW1014				

52.4-148

92.9

Hall Environmental Analysis Laboratory, Inc.

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

* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method BlankE Above Quantitation Range/Estimated Value
- E Above Quantitation Range/Estimated ValueJ Analyte detected below quantitation limits
- JAnalyte detected below quantitation limitPSample pH Not In Range
- RL Reporting Limit

Qualifiers:

2311B25-002

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Lab ID:

Analyses

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Batch

BW1014

BW1014

BW1014

Analyst: JJP

Analytical Report Lab Order 2311B25

Hall Environmental Analysis Laboratory, Inc.	Date Reported: 12/5/2023
CLIENT: ENSOLUM	Client Sample ID: MW-2
Project: Lateral K 51 2010	Collection Date: 11/20/2023 11:00:00 AM

Matrix: AQUEOUS

Result

ND

ND

ND

ND

92.7

11/28/2023 7:55:24 PM

11/28/2023 7:55:24 PM

11/28/2023 7:55:24 PM

11/28/2023 7:55:24 PM BW1014

11/28/2023 7:55:24 PM BW1014

Received Date: 11/21/2023 7:10:00 AM

1

1

1

1

1

DF Date Analyzed

RL Oual Units

µg/L

µg/L

µg/L

µg/L

%Rec

1.0

1.0

1.0

2.0

52.4-148

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р Reporting Limit
- RL

Released to Imaging: 8/6/2024 3:47:11 PM

Analytical Report
Lab Order 2311B25

Date Reported: 12/5/2023

11/28/2023 8:18:40 PM BW1014

CLIENT: ENSOLUM		Client Sample]	I D: M	W-1			
Project: Lateral K 51 2010	Collection Date: 11/20/2023 10:35:00 AM						
Lab ID: 2311B25-003	Matrix: AQUEOUS Received Date: 11/21/2023 7:10:00 AM						
Analyses	Result	RL Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 8021B: VOLATILES				Analyst	: JJP		
Benzene	ND	1.0 µg/L	1	11/28/2023 8:18:40 PM	BW101		
Toluene	ND	1.0 µg/L	1	11/28/2023 8:18:40 PM	BW101		
Ethylbenzene	ND	1.0 μg/L	1	11/28/2023 8:18:40 PM	BW101		
Xylenes, Total	ND	2.0 μg/L	1	11/28/2023 8:18:40 PM	BW101		

52.4-148

93.3

%Rec

1

Hall Environmental Analysis Laboratory, Inc.

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

- B
 Analyte detected in the associated Method Blank

 E
 Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Released to Imaging: 8/6/2024 3:47:11 PM

*

D

ND

S

Qualifiers:

Value exceeds Maximum Contaminant Level.

H Holding times for preparation or analysis exceeded

% Recovery outside of standard limits. If undiluted results may be estimated.

Not Detected at the Reporting Limit

Sample Diluted Due to Matrix

PQL Practical Quanitative Limit

Analytical Report
Lab Order 2311B25

Date Reported: 12/5/2023

					_		
CLIENT: ENSOLUM		Cli	ent Sample II): M	W-17		
Project: Lateral K 51 2010	Collection Date: 11/20/2023 11:25:00 AM						
Lab ID: 2311B25-004	Matrix: AQUEOUS Received Date: 11/21/2023 7:10:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 8021B: VOLATILES					Analyst	JJP	
Benzene	ND	1.0	µg/L	1	11/28/2023 8:41:48 PM	BW1014	
Toluene	ND	1.0	μg/L	1	11/28/2023 8:41:48 PM	BW1014	
Ethylbenzene	ND	1.0	μg/L	1	11/28/2023 8:41:48 PM	BW1014	
Xylenes, Total	ND	2.0	μg/L	1	11/28/2023 8:41:48 PM	BW1014	
Surr: 4-Bromofluorobenzene	93.2 5	2.4-148	%Rec	1	11/28/2023 8:41:48 PM	BW1014	

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers: *	Value exceeds Maximum Contaminant Level.
---------------	--

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

Analytical Report
Lab Order 2311B25

Date Reported: 12/5/2023

CLIENT: ENSOLUM	Client Sample ID: MW-16							
Project: Lateral K 51 2010	Collection Date: 11/20/2023 11:50:00 AM							
Lab ID: 2311B25-005	Matrix: AQUEOUS Received Date: 11/21/2023 7:10:00 AM							
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch		
EPA METHOD 8021B: VOLATILES					Analyst	: JJP		
Benzene	ND	1.0	µg/L	1	11/28/2023 9:04:59 PM	BW101		
Toluene	ND	1.0	µg/L	1	11/28/2023 9:04:59 PM	BW1014		
Ethylbenzene	ND	1.0	µg/L	1	11/28/2023 9:04:59 PM	BW1014		
Xylenes, Total	ND	2.0	µg/L	1	11/28/2023 9:04:59 PM	BW1014		
Surr: 4-Bromofluorobenzene	94.0 5	2.4-148	%Rec	1	11/28/2023 9:04:59 PM	BW1014		

Hall Environmental Analysis Laboratory, Inc.

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

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- RL Rep

Qualifiers:

Analytical Report
Lab Order 2311B25

Date Reported: 12/5/2023

11/28/2023 9:28:09 PM BW1014

CLIENT: ENSOLUM		Client S	Sample I	D: M	W-14		
Project: Lateral K 51 2010	Collection Date: 11/20/2023 12:20:00 PM						
Lab ID: 2311B25-006	Matrix: AQUEOUS Received Date: 11/21/2023 7:10:00 AM						
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch	
EPA METHOD 8021B: VOLATILES					Analys	: JJP	
Benzene	ND	1.0	µg/L	1	11/28/2023 9:28:09 PM	BW101	
Toluene	ND	1.0	µg/L	1	11/28/2023 9:28:09 PM	BW101	
Ethylbenzene	ND	1.0	µg/L	1	11/28/2023 9:28:09 PM	BW101	
Xylenes, Total	ND	2.0	µg/L	1	11/28/2023 9:28:09 PM	BW101	

52.4-148

94.6

%Rec

1

Hall Environmental Analysis Laboratory, Inc.

Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value

- E Above Quantitation Range/Estimated ValuJ Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

в

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

S % Recovery outside of standard limits. If undiluted results may be estimated.

Value exceeds Maximum Contaminant Level.

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Sample Diluted Due to Matrix

PQL Practical Quanitative Limit

*

D

ND

Qualifiers:

Analytical Report Lab Order 2311B25

11/28/2023 9:51:18 PM BW1014

Hall Environmental Analysi	s Laboratory, Inc.	Date Reported: 12/5/2023					
CLIENT: ENSOLUM		Client Sample	(D: M	W-20			
Project: Lateral K 51 2010		Collection Da	te: 11	/20/2023 12:50:00 PM	[
Lab ID: 2311B25-007	Matrix: AQUEOUS	Received Da	te: 11	/21/2023 7:10:00 AM			
Analyses	Result	RL Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 8021B: VOLATILES				Analyst	: JJP		
Benzene	ND	1.0 µg/L	1	11/28/2023 9:51:18 PM	BW1014		
Toluene	ND	1.0 μg/L	1	11/28/2023 9:51:18 PM	BW1014		
Ethylbenzene	ND	1.0 μg/L	1	11/28/2023 9:51:18 PM	BW1014		
Xylenes, Total	ND	2.0 μg/L	1	11/28/2023 9:51:18 PM	BW1014		

52.4-148

94.8

Hall Environmental Analysis Laboratory, Inc.

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

* **Qualifiers:**

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
- Р Sample pH Not In Range

%Rec

1

RL Reporting Limit

Released to Imaging: 8/6/2024 3:47:11 PM

Analytical Report Lab Order 2311B25

52.4-148 D %Rec 2 11/28/2023 10:14:26 PM BW1014

Hall Environmental Analysis		Date Reported: 12/5/2023					
CLIENT: ENSOLUM		Cli	ient Sa	ample I	D: M	W-19	
Project: Lateral K 51 2010		(Collect	ion Dat	e: 11	/20/2023 1:05:00 PM	[
Lab ID: 2311B25-008	Matrix: AQUEOUS		Recei	ved Dat	e: 11	/21/2023 7:10:00 AN	1
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analy	st: JJP
Benzene	200	2.0	D	µg/L	2	11/28/2023 10:14:26 F	PM BW1014
Toluene	ND	2.0	D	µg/L	2	11/28/2023 10:14:26 F	PM BW1014
Ethylbenzene	41	2.0	D	µg/L	2	11/28/2023 10:14:26 F	PM BW1014
Xylenes, Total	ND	4.0	D	µg/L	2	11/28/2023 10:14:26 F	PM BW1014

123

Hall Environmental Analysis Laboratory, Inc.

Analyte detected in the associated Method Blank

- в Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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

Released to Imaging: 8/6/2024 3:47:11 PM

*

D

ND

S

Qualifiers:

Value exceeds Maximum Contaminant Level.

H Holding times for preparation or analysis exceeded

% Recovery outside of standard limits. If undiluted results may be estimated.

Sample Diluted Due to Matrix

PQL Practical Quanitative Limit

Not Detected at the Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2311B25

05-Dec-23

Client:	ENSOLU	М									
Project:	Lateral K	51 2010									
Sample ID:	2311b25-001ams	SampT	ype: MS	;	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	MW-4	Batch	n ID: BW	/101445	F	RunNo: 1	01445				
Prep Date:		Analysis D	Date: 11	/28/2023	:	SeqNo: 3	733206	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		20	1.0	20.00	0.3780	99.0	70	130			
Toluene		20	1.0	20.00	0.5440	97.8	70	130			
Ethylbenzene		20	1.0	20.00	0.2500	98.1	70	130			
Xylenes, Total		61	2.0	60.00	2.138	97.5	70	130			
Surr: 4-Bror	mofluorobenzene	20		20.00		97.6	52.4	148			
Sample ID:	2311b25-001amsd	SampT	уре: МS	D	Tes	tCode: E	PA Method	8021B: Volati	iles		
Client ID:	MW-4	Batch	n ID: BW	/101445	F	RunNo: 1	01445				
Prep Date:		Analysis D	Date: 11	/28/2023	:	SeqNo: 3	733207	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		19	1.0	20.00	0.3780	94.8	70	130	4.23	20	
Toluene		19	1.0	20.00	0.5440	94.1	70	130	3.67	20	
Ethylbenzene		20	1.0	20.00	0.2500	97.1	70	130	1.04	20	
Xylenes, Total		60	2.0	60.00	2.138	96.2	70	130	1.28	20	
Surr: 4-Bror	mofluorobenzene	19		20.00		94.4	52.4	148	0	0	
Sample ID:	100ng btex lcs	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volati	iles		
Client ID:	LCSW	Batch	n ID: BW	/101445	F	RunNo: 10	01445				
Prep Date:		Analysis D	Date: 11	/28/2023	:	SeqNo: 37	733217	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		20	1.0	20.00	0	99.4	70	130			
Toluene		20	1.0	20.00	0	99.4	70	130			
Ethylbenzene		20	1.0	20.00	0	99.3	70	130			
Xylenes, Total		60	2.0	60.00	0	99.3	70	130			
Surr: 4-Bror	nofluorobenzene	19		20.00		94.2	52.4	148			
Sample ID:	mb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volati	iles		
Client ID:	PBW	Batch	n ID: BW	/101445	F	RunNo: 10	01445				
Prep Date:		Analysis D	Date: 11	/28/2023	:	SeqNo: 37	733218	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
		ND	1.0								
Benzene		ND	1.0								
Toluene			1.0								
Benzene Toluene Ethylbenzene		ND									
Toluene Ethylbenzene Xylenes, Total	nofluorobenzene	ND ND 19	2.0	20.00		92.7	52.4	148			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

0			£1×		
S	eu	ro	11	n:	S

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 8/6/2024 3:47:11 PM

Client Name: ENSOLUM	Work Order Numbe	r: 2311B25		RcptNo: 1
Received By: Juan Rojas	11/21/2023 7:10:00 A	M	Guan By D	
Completed By: Cheyenne Cason Reviewed By: パーだいる	11/21/2023 2:19:05 P	M	Chenl	
Chain of Custody1. Is Chain of Custody complete?2. How was the sample delivered?		Yes ☑ <u>Courier</u>	No 🗌	Not Present
Log In 3. Was an attempt made to cool the sample	s?	Yes 🗹	No 🗌	NA 🗌
4. Were all samples received at a temperate	re of >0° C to 6.0°C	Yes 🔽	No 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
6. Sufficient sample volume for indicated tes7. Are samples (except VOA and ONG) prop		Yes ☑ Yes ☑	No 🗌 No 🗌	
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌
9. Received at least 1 vial with headspace <10. Were any sample containers received broken		Yes ☑ Yes □	NO D No M M MB	NA
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗹	for pH:(<2 or >12 unless noted)
12. Are matrices correctly identified on Chain		Yes 🗹 Yes 🗹	No 🗌 No 🗌	Adjusted?
13. Is it clear what analyses were requested?14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹 Yes 🗹		Checked by CM 11/21/2
Special Handling (if applicable)				
15. Was client notified of all discrepancies w	ith this order?	Yes	No 🗌	NA 🗹
Person Notified: By Whom: Regarding: Client Instructions:	Construction of the second	11/21/2 eMail y coz + oc	Phone 🗌 Fax	In Person
16. Additional remarks:	are contras			
17. <u>Cooler Information</u> Cooler No Temp °C Condition 1 1.1 Good	Seal Intact Seal No Not Present Yogi	Seal Date	Signed By	

Page 236 of 240

-
0
- • • • ·
\sim
m
0
-
4
0
0
C1
~
3
0
12
\mathbf{U}
0
\sim
3
5
9
0
2
2
5
Se
~

Received by OCD: 7/3/2024 12:33:21 PM		Page 237 of 240
Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL
Client: Ensolum. UC	tt Standard □ Rush	1
	Project Name:	www.hallenvironmental.com
Mailing Address: 606 5. Rib Green de Suitert	[atera K-51 (2010)	4901 Hawkins NE - Albuquerque, NM 87109
R7410 (Project #:	Tel. 505-345-3975 Fax 505-345-4107
	0521226010	ysis Requ
email or Fax#: <u>his inviences of eased win</u> , cours	P	[†] OS ; ; (ΟΣ
age:	4	SIW2
Standard Cevel 4 (Full Validation)	N. Junnet &	יי ו 203 ז ב ז ב
		0 / E 04.1 2808 04.1 2808
	plers:	(СК 904 5 910 919 910 910 910 910 910 910 910 910
	Cooler Temp(Including CF): 6 9+ 6. 2-1.1 (°C)	d3fi estic by 8 8 Md 8 Md 8 Md 8 7 0 AOV
	Preservative	7EX / 7EX / 781 P 081 P 780 (780 (750 (700 (700)))))))))))))))))))))))))))))))))))
Date Time Matrix Sample Name	# Type 23	8 8 8 6 6 8 8 8 8
H-MM m originedall	3× youldon Hally OCI	
	1 200	
3	003	
3	Cort	
, i v	002	
3	000	
3	007	
33	W 008	
	/ /	
Date: Time: Relinquished by:	Received by: Viay Viay Date Time	1
Relinquished by:	Received by: Via: Date Time	Bill to Ensolution
If necessary, samples submitted to Hall Environmental may be su	ubcontracted to other accredited laboratories. This serves as notice of thi	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.

Keleaused to Imaging: 0/0/Z024 5:4/:11 FM

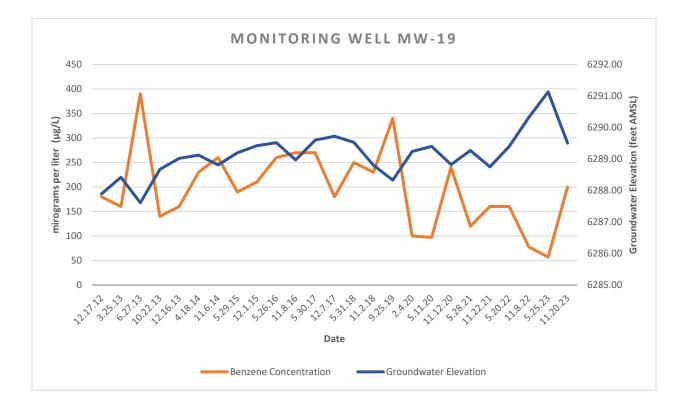


APPENDIX E

Benzene Concentration Chart

Released to Imaging: 8/6/2024 3:47:11 PM

2023 Groundwater Monitoring Report Enterprise Field Services, LLC Lateral K-51 Pipeline Release (2010)





District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 360987

CONDITIONS					
Operator: Enterprise Field Services, LLC	OGRID: 241602				
PO Box 4324 Houston, TX 77210	Action Number: 360987				
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)				
	· · · · ·				

CONDITIONS		
Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 annual groundwater monitoring report: content satisfactory 1. Continue to conduct semi-annual groundwater monitoring at the site, limiting the sampling frequency for wells MW-3, MW-11, MW-12, and MW-13 to an annual basis until COCs are demonstrating to be below the WQCC human health standards in Title 20 of the NMAC, then transition back to a quarterly schedule. 2. Proceed with plans to install a shallow recovery well upgradient of monitoring well MW-19 and either repair or replace MW-18. 3. If aquifer testing is conducted, please notify OCD 4 business days in advance, before activity takes place. 4. Submit the 2024 annual report to OCD by April 1, 2025. 5. 2021 and 2022 Annual Reports have been accepted for the record.	8/6/2024