



TETRA TECH

CLOSURE REPORT
LILY LATERAL 8"
EDDY COUNTY, NEW MEXICO

Prepared for:

TARGA RESOURCES

PO BOX 67
MONUMENT NEW MEXICO, 88265

Prepared by:

Tetra Tech

901 West Wall Street, Suite 100
Midland, Texas 79701
(432) 682-4559
Fax (432) 682-3946

February 29, 2024

complex world CLEAR SOLUTIONS-

Targa Resources

Lily Lateral 8"

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SITE INFORMATION

Report Type: Closure Report nAPP2319273619

General Site Information:

Site:	Lily Lateral 8"					
Company:	Targa Resources					
Section, Township and Range	Unit E	Sec. 21	T 23S	R 31E		
Lease Number:						
County:	Eddy County					
GPS:	32.2906973			-103.7871072		
Surface Owner:	Federal					
Mineral Owner:						
Directions:	From intersection 128 and Twin Wells Rd, travel Northwest on 128 for 3.9 Miles. Turn right (Northeast) onto lease road, follow for 0.20 miles. Turn right (East) onto lease road and follow for 0.24 miles. Location is to the South, down the ROW.					

Release Data:

Date Released:	7/11/2023
Type Release:	Condensate and Natural Gas
Source of Contamination:	Corrosion
Fluid Released:	10 bbl condensate & 578.91 Mcf
Fluids Recovered:	0 bbl condensate & 0 Mcf gas

Official Communication:

Name:	Amber Groves	Clair Gonzales
Company:	Targa Resources	Tetra Tech
Address:	PO Box 67	901 W. Wall St.
		Ste 100
City:	Monument, NM 88265	Midland, Texas, 79701
Phone number:	(575) 636-9096	(432) 682-4559
Fax:		
Email:	agroves@targaresources.com	clair.gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	128.64' Below Ground Surface
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+ORO)	Chlorides
10 mg/kg	50 mg/kg	100 mg/kg	100 mg/kg	600 mg/kg



February 29, 2024

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**RE: Remediation Closure Report
Targa Resources
Lily Lateral 8"
Eddy County, New Mexico
nAPP2319273619**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by Targa Resources (Targa) to remediate a release that occurred at the Lily Lateral 8", Unit E, Section 21, Township 23 South, Range 31 East, Eddy County, New Mexico (Site). The spill site coordinates are 32.2906973°, -103.7871072°. The site location is shown on **Figures 1 and 2**. The Site is located on federal land.

Background

According to the State of New Mexico C-141 Initial Report, the release at the Site was caused by corrosion on the pipeline, causing the release of 10 barrels (bbls) of condensate and 578.91 thousand cubic feet (Mcf) of natural gas; the release flowed within the pipeline right-of-way, impacting an area of 116 feet (ft) long and approximately 55 ft wide. None of the fluids were recovered. On July 11, 2023, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is provided in **Appendix A**.

Site Characterization

Significant Water Features

According to the (National Flood Hazard Layer) NFHL Flood Data Application and the (United States Geological Survey) USGS National Water Information System Mapper, there were no watercourses, lakebeds, sinkholes, playa lakes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances of the site. However, the site is located in a low karst area. The NFHL Map and USGS Mapper are provided in **Appendix B**.

Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within incorporated municipal boundaries, a defined municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institutions, or churches located within the specified distances of the lateral extents of the release.



Groundwater Review

Groundwater research was completed for the site through the USGS National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Results of groundwater research conducted through these two resources show the three closest water wells within a 2-mile radius of the Site. The well reported on the NMOSE Water Rights Reporting System is listed as having a total depth of 55 ft bgs, and no measured water level due to being a dry hole and is approximately 1.46 miles from the Site. The well reported on the USGS National Water Information System is listed as having a total depth of 354 ft bgs with water level measured at 128.64 ft bgs and is approximately 1.42 miles from the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
1.46 Miles	4/18/2023	NMOSE	55 ft	N/A
1.42 Miles	1/16/2013	USGS	354 ft	128.64 ft

Regulatory

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018, were followed for the site. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 100 mg/kg and the proposed RRAL for chloride is 600 mg/kg.

Previous Consultant Site Assessment Activities

A previous consultant conducted site assessment activities on September 28, 2023. A total of seventeen (17) sample points were installed within the impacted area, to depths ranging from 2.0 ft to 4.0 ft bgs to attempt to assess and vertically delineate the impacted area. The extent of impact and sample locations are shown on **Figure 3** and the previous consultant's sample analysis results summary table, sample location map, and laboratory report are provided in **Appendix C**.

The samples were submitted to Envirotech Laboratory in Farmington, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0. The sample analysis results, and report are included in **Appendix C**.

Referring to the previous consultant Table 1, sample points (B2, C3, E5, C6, E6, D8, and E8) indicated TPH concentrations above RRALs, with concentrations ranging from 143.4 mg/kg to 682 mg/kg, at depths ranging from surface to 4.0 ft bgs. None of the samples analyzed indicated benzene, BTEX, or chloride concentrations above RRALs.

Remediation Activities

Tetra Tech conducted remediation activities from December 12, 2023, through January 9, 2024. The areas of impact were excavated to depths ranging from 1.0 ft bgs to 5.5 ft bgs. The remediation areas and depths are shown on **Figure 4**.



Following excavation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 200 square feet within the remediation. All confirmation samples are collected as a composite 5-point die pattern to ensure a representative sample of sidewalls and floor of the excavation are collected. The confirmation sample notification was sent to the NMOCD via email, on December 8, 2023, at 2:13 PM, and a copy of the notice is provided in **Appendix D**. A total of eleven (11) bottom holes (BH-1 through BH-11) were collected and a total of fourteen (14) sidewalls (SW-1 through SW-14) were collected to confirm full removal of impacted soil. The confirmation soil samples were submitted to the Envirotech Laboratory in Farmington, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0. The analytical results are summarized in **Table 1** and the sample analysis laboratory reports are included in **Appendix E**.

All samples collected indicated TPH concentrations below laboratory reporting limits (<50.0 mg/kg) with the exception of the initial bottom hole BH-1 and bottom hole BH-3, which indicated TPH concentrations of 143 mg/kg and 59.7 mg/kg, respectively. The area of bottom hole BH-1 was excavated 0.5 ft to 1.0 ft bgs further to remove existing TPH impact and the recollected sample indicated a TPH concentration below laboratory reporting limits (<50.0 mg/kg). Additionally, all samples collected indicated benzene and BTEX concentrations below laboratory reporting limits (<0.0250 mg/kg). In the majority of the bottom hole and sidewall samples collected, chloride concentrations above laboratory reporting limits (<200.0) were not indicated, with the exception of bottom holes BH-1 through BH-3, and BH-11, however, all samples indicated chloride concentrations below RRALs with concentrations ranging from 56.6 mg/kg to 278 mg/kg. Based on the laboratory data, vertical and horizontal delineation of the impact was achieved during excavation. Regarding all final samples collected from the excavation, analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below the RRALs.

Conclusions

Based on the C-141 (nAPP2319273619) and information provided by Targa, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activities, the RRALs of 600 mg/kg for chlorides and 100 mg/kg for TPH were followed for soil beyond the top 4.0 ft of soil. Based on the previous consultant assessment activities, laboratory results indicated TPH concentrations in sample points (B2, C3, E5, C6, E6, D8, and E8) exceeded RRALs and required remediation.

Following excavation of the areas of impact, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was fully removed. Approximately 490 cubic yards of impacted soil was removed and properly disposed of, and the area was backfilled with clean to surface grade material. Disposal manifests for the disposed soil are available upon request.

The disturbed area was approximately 5,430 square feet and following backfill of the disturbed area, the site was seeded with BLM Seed Mixture 2 for sites with sandy soil. Revegetation of the site will be monitored, following the rain season (March through June) and if vegetation has not progressed, the site will be reseeded as needed to meet the requirement of 50 percent life-form coverage and at least 70 percent plant cover based on pre-disturbed levels, as stated by the NMOCD. Following the proper



vegetation of the site, a vegetation report will be submitted to prove restoration of the site and will request full closure. The soil survey data and seed mixture information is shown **Appendix F**.

The analytical results indicated all confirmation sample concentrations below the RRALs for all constituents. Based on this information, Targa respectfully requests remediation and reclamation closure of nAPP2319273619. The final C-141 is included in **Appendix A**.

If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Respectfully submitted,
TETRA TECH

A handwritten signature in blue ink, appearing to read 'Brittany Long'.

Brittany Long
Project Manager

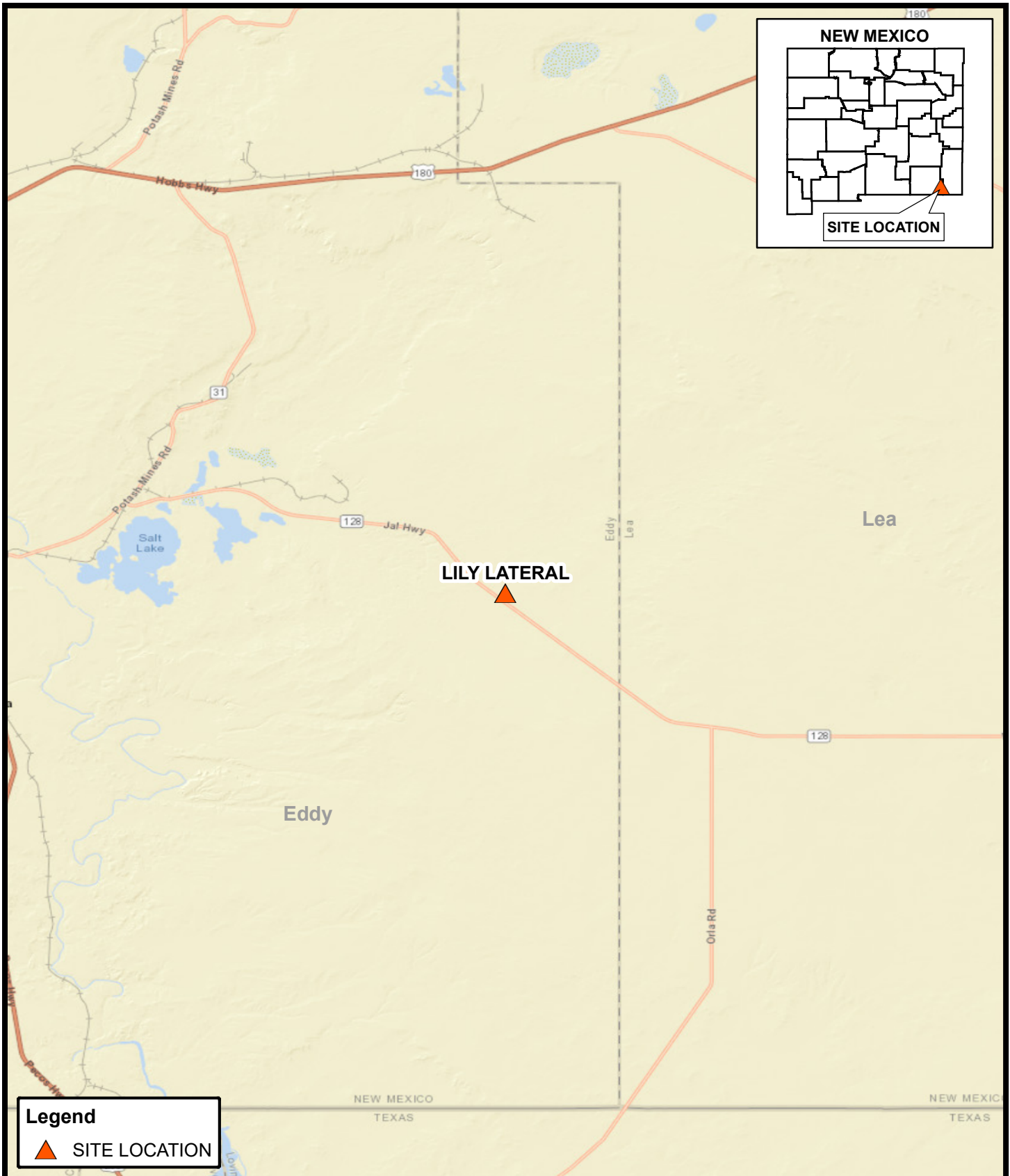
A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales, P.G.
Senior Project Manager



Cc: Madeline Mauk, Tetra Tech - Madeline.Mauk@TetraTech.com



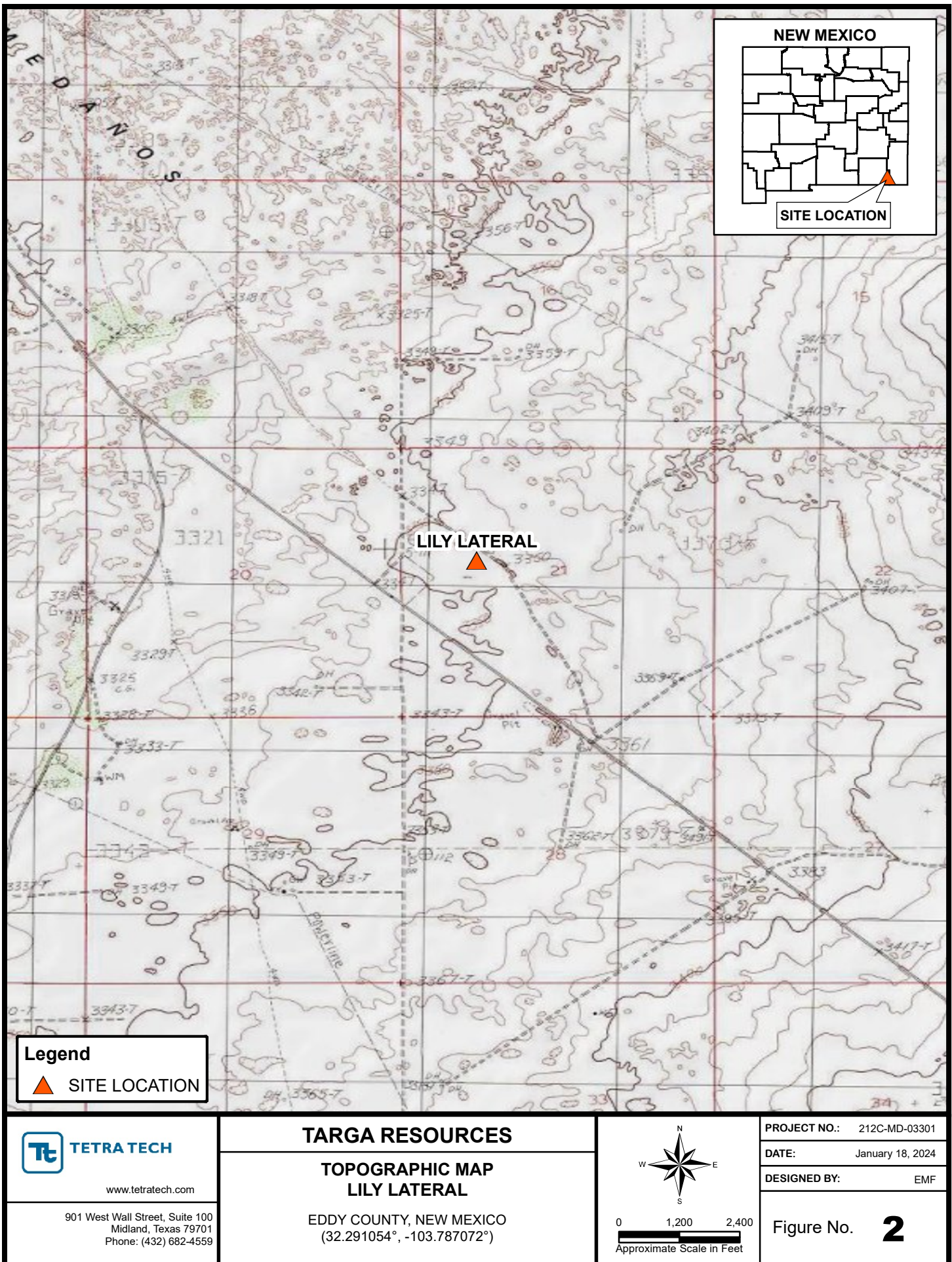
Figures

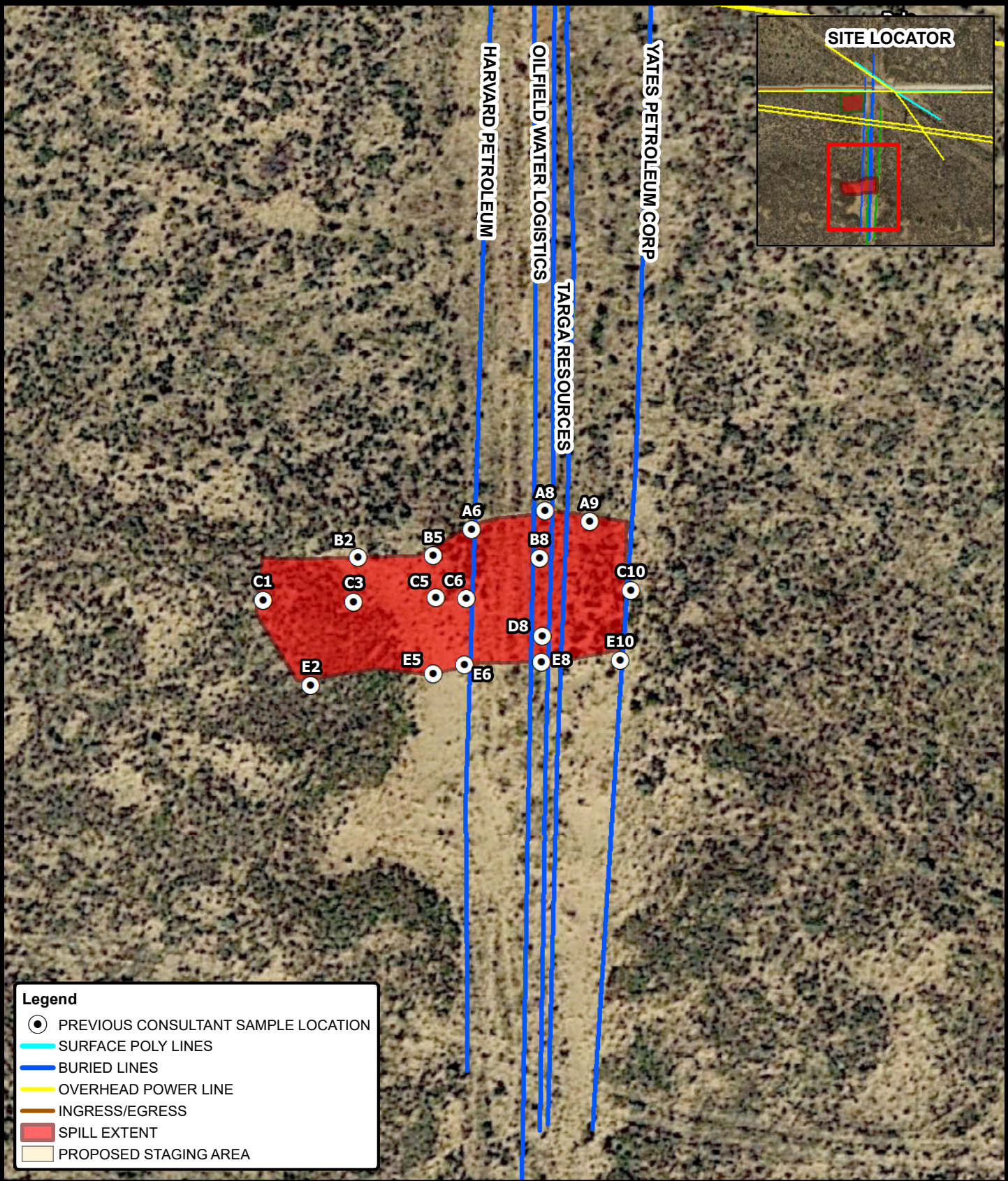


Document Path: C:\Users\EMORENO\FLORES\Documents\Projects\Targa\03301 - Lily Lateral\GIS\MXD\Figure 1 - 03301 - Targa - Lily Lateral.mxd

 TETRA TECH www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559	TARGA RESOURCES	 0 12,500 25,000 Approximate Scale in Feet	PROJECT NO.: 212C-MD-03301
	SITE LOCATION MAP LILY LATERAL EDDY COUNTY, NEW MEXICO (32.291054°, -103.787072°)		DATE: January 18, 2024
			DESIGNED BY: EMF
			Figure No. 1

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community





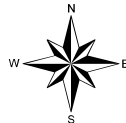
www.tetrattech.com

901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559

TARGA RESOURCES

SITE ASSESSMENT MAP LILY LATERAL

EDDY COUNTY, NEW MEXICO
(32.291054°, -103.787072°)



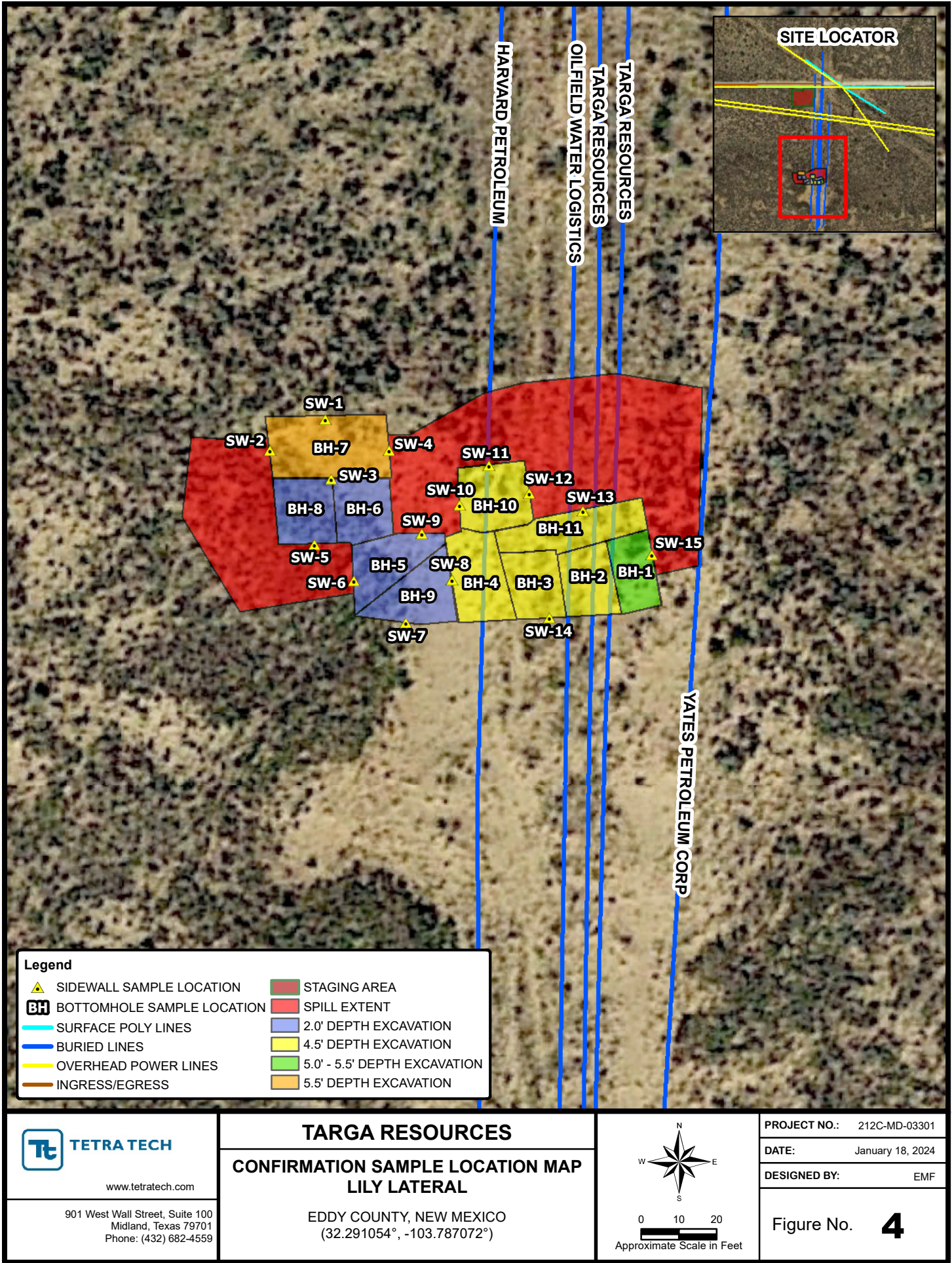
0 25 50
Approximate Scale in Feet

PROJECT NO.: 212C-MD-03301

DATE: January 18, 2024

DESIGNED BY: EMF

Figure No. **3**





Tables

Table 1
Targa Resources
Lily Lateral
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)					Chloride (mg/kg)
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total (mg/Kg)	
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
Confirmation Samples														
BH-1	12/18/2023	4.5	-	X	<20.0	78.5	64.7	143	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	56.6
	1/9/2024	5.5	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
BH-2	12/18/2023	4.5	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	278
BH-3	12/18/2023	4.5	X	-	<20.0	59.7	<50.0	59.7	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	141
BH-4	12/18/2023	4.5	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
BH-5	12/18/2023	2	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
BH-6	12/18/2023	2	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
BH-7	12/18/2023	5.5	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
BH-8	12/18/2023	2	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
BH-9	12/18/2023	2	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
BH-10	12/18/2023	4.5	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
BH-11	12/18/2023	4.5	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	60.7
SW-1	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
SW-2	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
SW-3	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
SW-4	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0

Table 1
Targa Resources
Lily Lateral
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)					Chloride (mg/kg)
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total (mg/Kg)	
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
SW-5	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
SW-6	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
SW-7	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	37.4
SW-8	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	34.0
SW-9	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	36.1
SW-10	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
SW-11	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	29.0
SW-12	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
SW-13	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<200.0
SW-14	12/18/2023	-	X	-	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	26.5

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks*,

All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

 Exceedance



Photographic Documentation

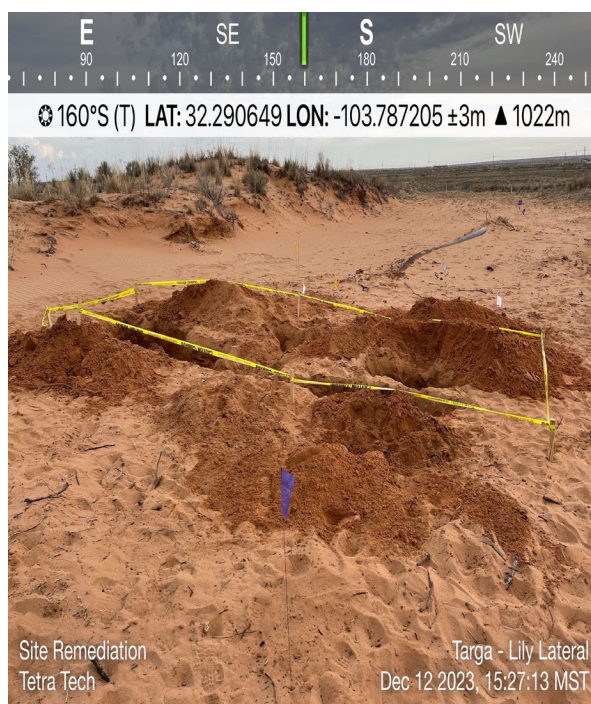
Targa Resources
Lily Lateral 8"
Eddy County, New Mexico



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View of Release Area – View North



View of Hydrovaccing Activities – View South

Targa Resources
Lily Lateral 8"
Eddy County, New Mexico



View of Remediation Activities



View of Remediation Activities

Targa Resources
Lily Lateral 8"
Eddy County, New Mexico



View of Backfill Activities – View West



View of Backfill Activities – View Northeast

Targa Resources
Lily Lateral 8"
Eddy County, New Mexico



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View of Backfill and Seeding Activities – View Northeast



Appendix A

C-141 Document

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2319273619
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party <i>Targa Resources</i>	OGRID <i>331548</i>
Contact Name <i>Amber Groves</i>	Contact Telephone <i>575-636-9096</i>
Contact email <i>agroves@targaresources.com</i>	Incident # (assigned by OCD) <i>nAPP2313239469</i>
Contact mailing address <i>PO Box 67, Monument, NM 88265</i>	

Location of Release Source

Latitude 32.2906973 Longitude -103.7871072
(NAD 83 in decimal degrees to 5 decimal places)

Site Name <i>Lily Lateral 8"</i>	Site Type <i>Pipeline</i>
Date Release Discovered <i>07/11/2023</i>	API# (if applicable)

Unit Letter	Section	Township	Range	County
<i>E</i>	<i>21</i>	<i>23S</i>	<i>31E</i>	<i>Eddy</i>

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) <i>10</i>	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) <i>578.91</i>	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Targa Northern Delaware had a leak on the Lily Lateral 8" line located in Eddy County. This release is attributed to corrosion.

Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	nAPP2319273619
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <i>This release is greater than 500 MCF.</i>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? <i>Immediate notification was given to the OCD via online portal NOR within the 24 hour reporting timeframe.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Jason Fuentes	Title: Dir. Sr. Pipeline Ops
Signature: <u>Jason Fuentes</u>	Date: <u>7-19-23</u>
Email: <u>Jason.fuentes@targaresources.com</u>	Telephone: <u>(575) 365-8939</u>
<u>OCD Only</u>	
Received by: _____	Date: _____



Appendix B

Site Characterization Documents

Site Characterization Summary

Site Information:

Targa Resources
Eddy County, New Mexico
T23S, R31E, Section 21, Unit E
(32.2906973°, -103.7871072°)
614204.00 m E, 3573303.00 m N

Site Characterization:

- Low Karst
- No significant water features within specified distances
- Groundwater >55' BGS (Dry Hole) 1.46 Miles. (NMOSE, Section 15, 2023 Sample)
- Groundwater 128.64' BGS 1.42 Miles Northwest. (USGS, Section 17, 2013 Sample)

RRALs:

- 600 mg/kg Chlorides
- 100 mg/kg Total TPH
- 10 mg/kg Benzene
- 50 mg/kg Total BTEX

Explanation:

Due to inadequate groundwater information (distance further than ½ mile/data dated >25 years), Most stringent RRALs will be followed unless groundwater determination bore is drilled, and no water is found at depths of at least 55' BGS or greater.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-04709			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 18	SECONDS 29.62 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
LONGITUDE 103 46 22.89 W								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW NW NW Sec. 15 T23S R31E , NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 4/11/23	DRILLING ENDED 4/11/23	DEPTH OF COMPLETED WELL (FT) Temporary Well Material	BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		DATE STATIC MEASURED 4/18/23	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-04709	POD NO. 1	TRN NO. 743056
LOCATION 23S. 31E. 15. 311		WELL TAG ID NO.

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST; RIG SUPERVISION

6. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	C-04709	POD NO.	1
LOCATION		TRN NO.	743056
235.31E.15 311		WELL TAG ID NO	PAGE 2 OF 2



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National Water Information System: Web Interface[USGS Water Resources](#)

Data Category:
Groundwater

Geographic Area:
United States

GO

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- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321809103481801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321809103481801 23S.31E.17.31141

Eddy County, New Mexico

Latitude 32°18'11.3", Longitude 103°48'23.4" NAD83

Land-surface elevation 3,326.00 feet above NGVD29

The depth of the well is 354 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

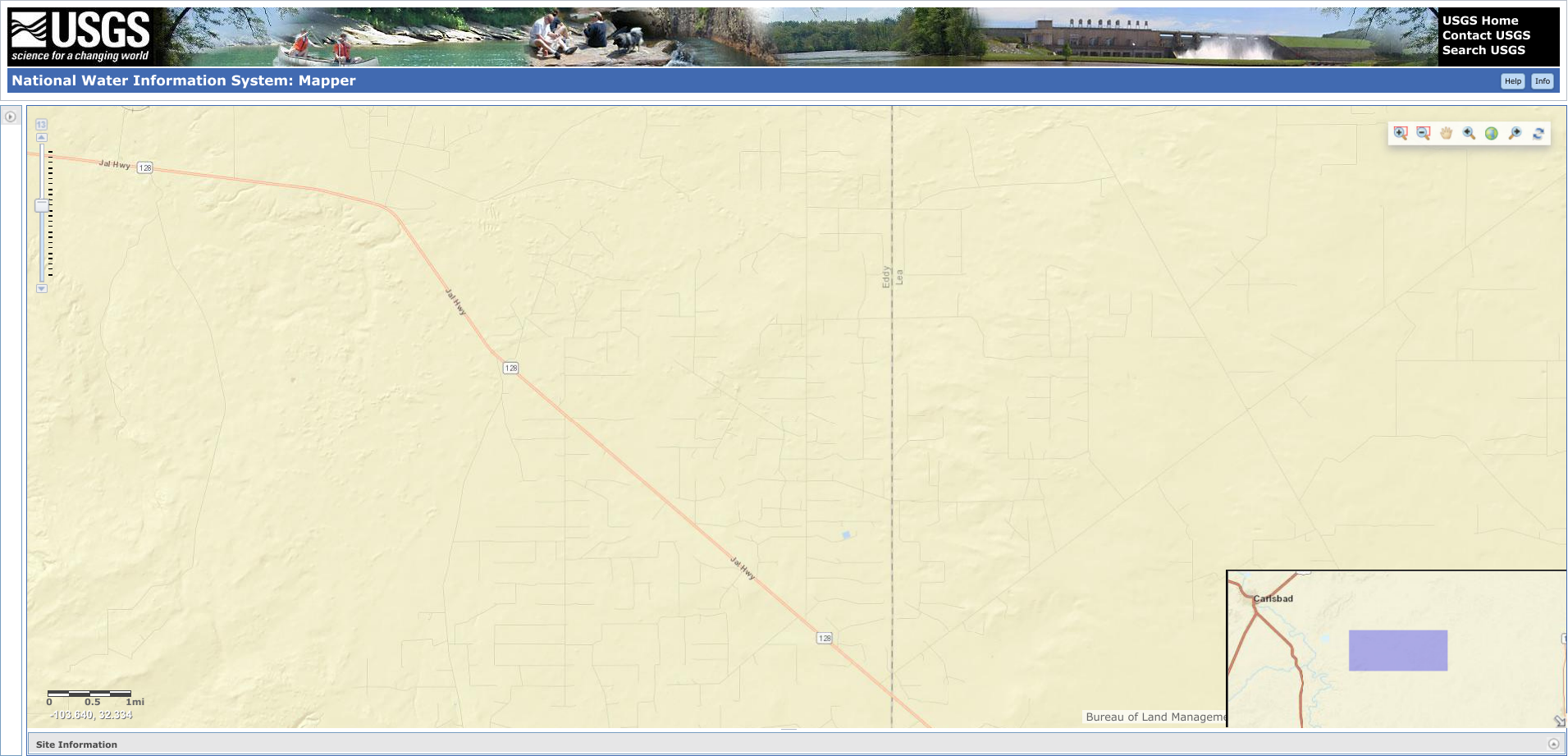
Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1959-02-04		D	62610		3215.16	NGVD29	P	Z		
1959-02-04		D	62611		3216.80	NAVD88	P	Z		
1959-02-04		D	72019	110.84			P	Z		
1987-10-15		D	62610		3214.80	NGVD29	1	Z		
1987-10-15		D	62611		3216.44	NAVD88	1	Z		
1987-10-15		D	72019	111.20			1	Z		
1992-11-04		D	62610		3216.32	NGVD29	1	S		
1992-11-04		D	62611		3217.96	NAVD88	1	S		
1992-11-04		D	72019	109.68			1	S		
2013-01-16	23:30 UTC	m	62610		3197.36	NGVD29	P	S	USGS	
2013-01-16	23:30 UTC	m	62611		3199.00	NAVD88	P	S	USGS	
2013-01-16	23:30 UTC	m	72019	128.64			P	S	USGS	

Explanation

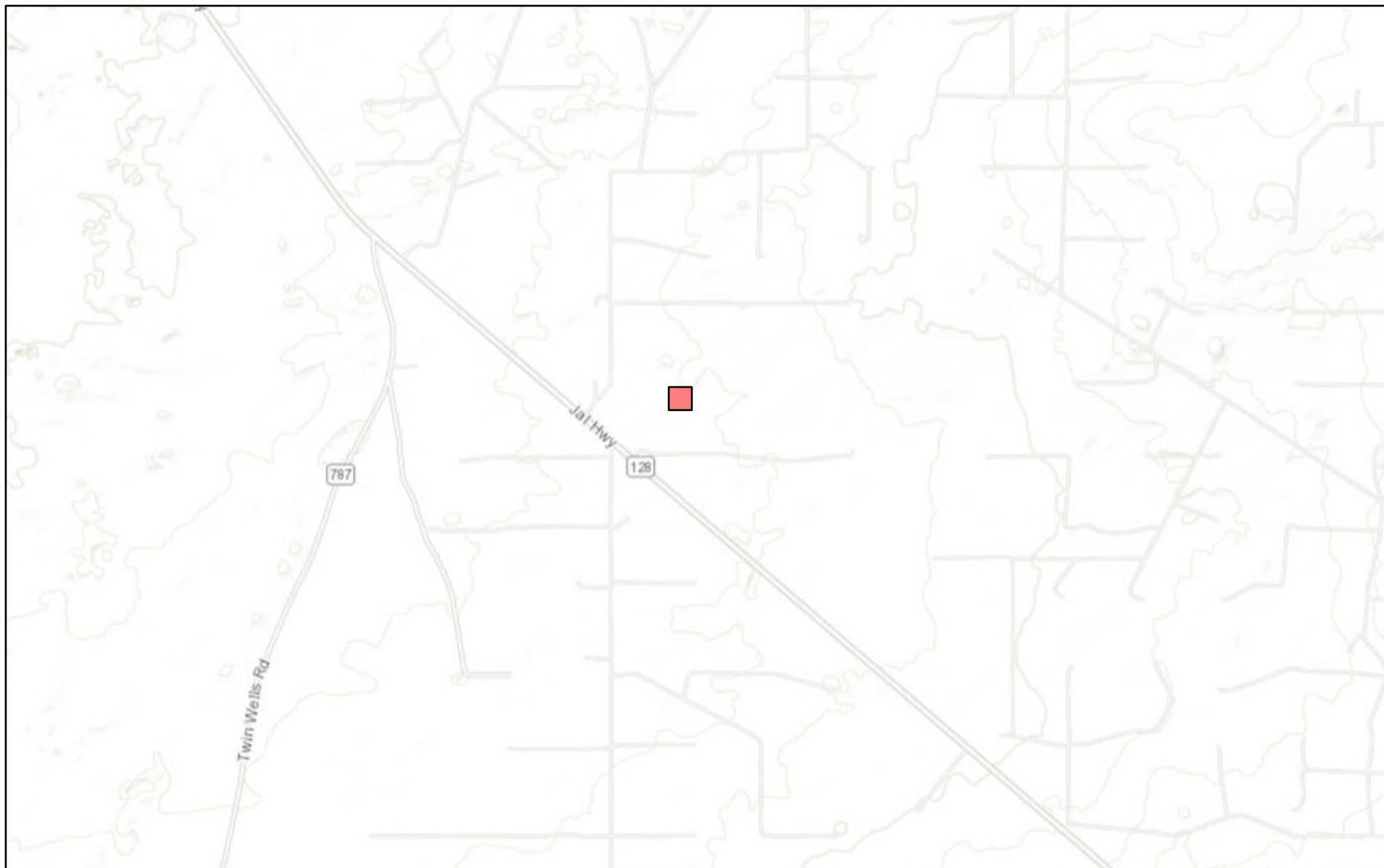
Section	Code	Description
---------	------	-------------

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

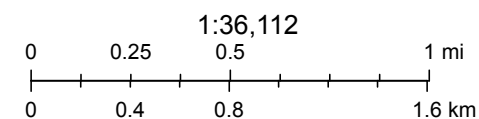
[Questions or Comments](#)
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New Mexico NFHL Data



October 24, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

nmflood.org is made possible through a collaboration with NMDHSEM,

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Low Karst
Larga Resources
Lily Lateral 8"

Legend

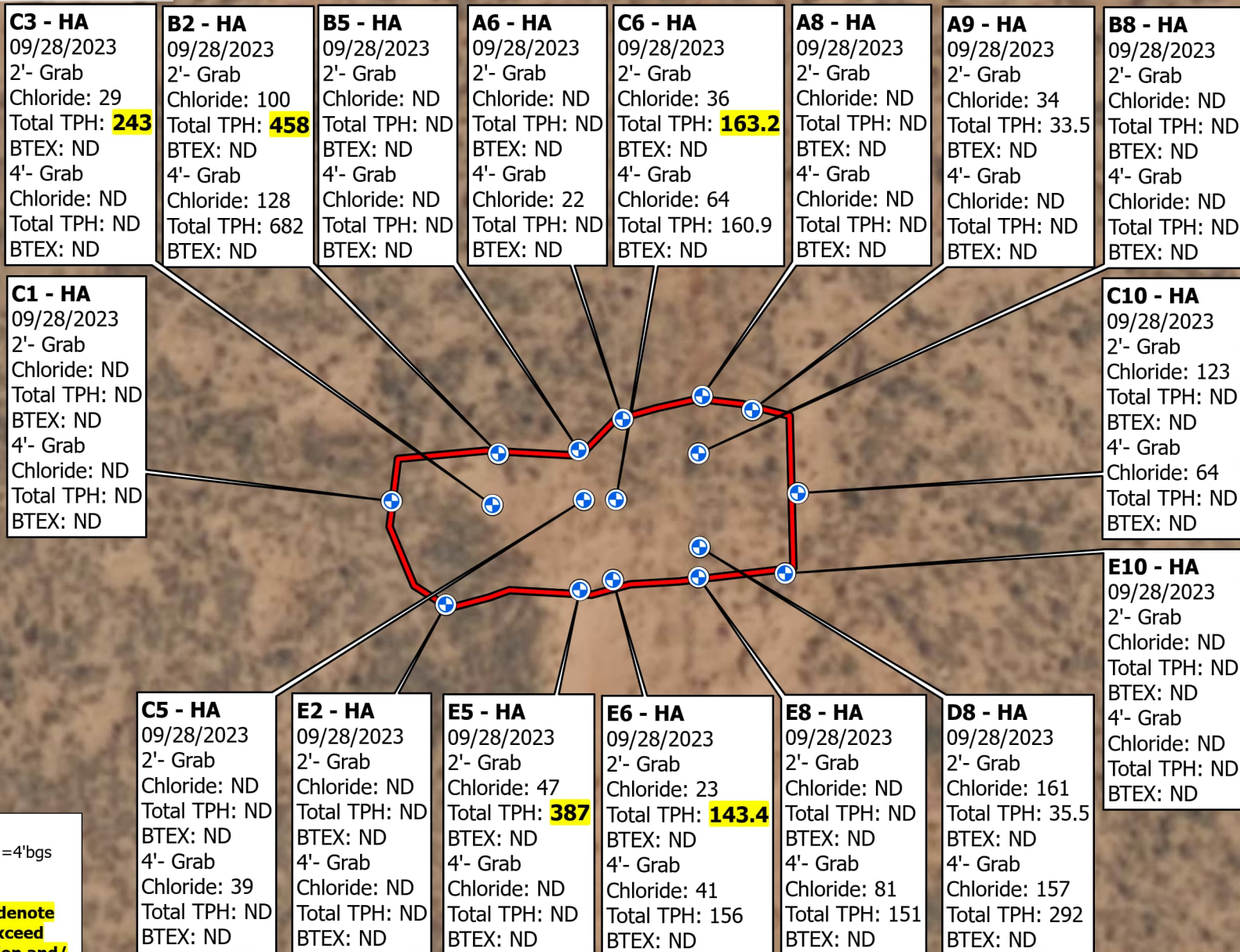
-  High
-  Lily Lateral 8"
-  Low
-  Medium


Lily Lateral 8"



Appendix C

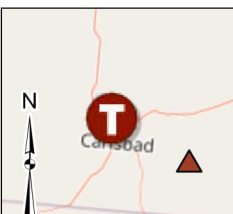
Previous Consultant Data



NMOC Delineation Standards =
600 mg/kg for chloride <=4' bgs
100 mg/kg for Total TPH
50 mg/kg for BTEX

Bold and Highlighted denote concentrations that exceed the NMOC Delineation Standards and/or Remediation and Delineation Standards

DATA SOURCES: Bing 0 25 50 100 Feet



- Inferred Release
- Hand Auger Locations

Project No.:
KH237040
Date:
Oct 10 2023
Drawn By:
JWL
Reviewed By:
JRG



PH. 806-300-0140

terracon.com

Site Sample Map

Lily Lateral 8"
32.2906973,-103.7871072
Eddy County, New Mexico

Exhibit

3

Table 1
Soil Analytical Results Summary - Release Assessment
Lily Lateral 8"
NMOCD Reference No. nAP2319273619

NMOCD Reference NO. HAF 2519273619											
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FT)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	
Release Assessment											
C1	9/28/2023	2	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
E2	9/28/2023	2	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
B2	9/28/2023	2	Grab	In-situ	100	ND	ND	458	260	ND	198
C3	9/28/2023	2	Grab	In-situ	29	ND	ND	243	125	ND	118
B5	9/28/2023	2	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
C5	9/28/2023	2	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
E5	9/28/2023	2	Grab	In-situ	47	ND	ND	387	238	ND	149
A6	9/28/2023	2	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
C6	9/28/2023	2	Grab	In-situ	36	ND	ND	163.2	70	ND	93.2
E6	9/28/2023	2	Grab	In-situ	23	ND	ND	143.4	82.4	ND	61
A8	9/28/2023	2	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
B8	9/28/2023	2	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
D8	9/28/2023	2	Grab	In-situ	161	ND	ND	35.5	35.5	ND	ND
E8	9/28/2023	2	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
A9	9/28/2023	2	Grab	In-situ	34	ND	ND	33.5	33.5	ND	ND
C10	9/28/2023	2	Grab	In-situ	123	ND	ND	ND	ND	ND	ND
E10	9/28/2023	2	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
C1	9/28/2023	4	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
E2	9/28/2023	4	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
B2	9/28/2023	4	Grab	In-situ	128	ND	ND	682	381	ND	301
C3	9/28/2023	4	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
B5	9/28/2023	4	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
C5	9/28/2023	4	Grab	In-situ	39	ND	ND	ND	ND	ND	ND
E5	9/28/2023	4	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
A6	9/28/2023	4	Grab	In-situ	22	ND	ND	ND	ND	ND	ND
C6	9/28/2023	4	Grab	In-situ	64	ND	ND	160.9	86.8	ND	74.1
E6	9/28/2023	4	Grab	In-situ	41	ND	ND	156	81.5	ND	74.5
A8	9/28/2023	4	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
B8	9/28/2023	4	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
D8	9/28/2023	4	Grab	In-situ	157	ND	ND	292	166	ND	126
E8	9/28/2023	4	Grab	In-situ	81	ND	ND	151	82.6	ND	68.4
A9	9/28/2023	4	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
C10	9/28/2023	4	Grab	In-situ	64	ND	ND	ND	ND	ND	ND
E10	9/28/2023	4	Grab	In-situ	ND	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)					600	10	50	100	N/A		
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft bgs)					20000	50	10	2500	N/A		

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

< = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Table 2
Soil Analytical Results Summary - Background Soil Assessment
Lily Lateral 8"
NMOCD Reference No. nAP2319273619

NMOCD Reference No.: HAF2319273019										
Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX ¹ (mg/Kg)	Total TPH ² (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
				EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
Background Soil Assessment										
N - BG	9/28/2023	2	Grab	ND	ND	ND	ND	ND	ND	ND
S - BG	9/28/2023	2	Grab	ND	ND	ND	ND	ND	ND	ND
E - BG	9/28/2023	2	Grab	ND	ND	ND	ND	ND	ND	ND
W - BG	9/28/2023	2	Grab	ND	ND	ND	ND	ND	ND	ND
N - BG	9/28/2023	4	Grab	ND	ND	ND	ND	ND	ND	ND
S - BG	9/28/2023	4	Grab	ND	ND	ND	ND	ND	ND	ND
E - BG	9/28/2023	4	Grab	ND	ND	ND	ND	ND	ND	ND
W - BG	9/28/2023	4	Grab	ND	ND	ND	ND	ND	ND	ND
NMOCD Reclamation Standards ³ (Surface to 4 ft bgs)				600	10	50	100	N/A		
NMOCD Remediation Standards ⁴ (Greater than Depths of 4 ft bgs)				20000	10	50	2500	N/A		

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

< = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

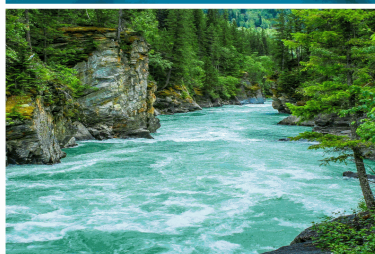
Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Report to:
Joseph Guesnier



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Terracon

Project Name: Lily Lateral 8"

Work Order: E310002

Job Number: 21102-0001

Received: 9/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/6/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/6/23



Joseph Guesnier
4518 W. Pierce St
Carlsbad, NM 87401

Project Name: Lily Lateral 8"
Workorder: E310002
Date Received: 9/30/2023 9:30:00AM

Joseph Guesnier,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/30/2023 9:30:00AM, under the Project Name: Lily Lateral 8".

The analytical test results summarized in this report with the Project Name: Lily Lateral 8" apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Office: 505-632-1881
labadmin@envirotech-inc.com

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West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/06/23 14:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
W-BG 0-2'	E310002-01A	Solid	09/28/23	09/30/23	Glass Jar, 4 oz.
W-BG 2'-4'	E310002-02A	Solid	09/28/23	09/30/23	Glass Jar, 4 oz.
S-BG 0-2'	E310002-03A	Solid	09/28/23	09/30/23	Glass Jar, 4 oz.
S-BG 2'-4'	E310002-04A	Solid	09/28/23	09/30/23	Glass Jar, 4 oz.
E-BG 0-2'	E310002-05A	Solid	09/28/23	09/30/23	Glass Jar, 4 oz.
E-BG 2'-4'	E310002-06A	Solid	09/28/23	09/30/23	Glass Jar, 4 oz.
N-BG 0-2'	E310002-07A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
N-BG 2'-4'	E310002-08A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
C1 0'-2'	E310002-09A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
C1 2'-4'	E310002-10A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
E2 0-2'	E310002-11A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
E2 2'-4'	E310002-12A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
B2 0-2'	E310002-13A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
B2 2'-4'	E310002-14A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
C3 0-2'	E310002-15A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
C3 2'-4'	E310002-16A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
E5 0-2'	E310002-17A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
E5 2'-4'	E310002-18A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
C5 0-2'	E310002-19A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
C5 2'-4'	E310002-20A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
B5 0-2'	E310002-21A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
B5 2'-4'	E310002-22A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
A6 0-2'	E310002-23A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
A6 2'-4'	E310002-24A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
C6 0-2'	E310002-25A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
C6 2'-4'	E310002-26A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
E6 0-2'	E310002-27A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
E6 2'-4'	E310002-28A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
A8 0-2'	E310002-29A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
A8 2'-4'	E310002-30A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
B8 0'-2'	E310002-31A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
B8 2'-4'	E310002-32A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
D8 0-2'	E310002-33A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
D8 2'-4'	E310002-34A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
E8 0-2'	E310002-35A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
E8 2'-4'	E310002-36A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
A9 0-2'	E310002-37A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
A9 2'-4'	E310002-38A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
C10 0'-2'	E310002-39A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
C10 2'-4'	E310002-40A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.



Sample Summary

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/06/23 14:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
E10 0'-2'	E310002-41A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.
E10 2'-4'	E310002-42A	Soil	09/28/23	09/30/23	Glass Jar, 4 oz.



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

W-BG 0-2'

E310002-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		110 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		107 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		110 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		107 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		92.6 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

W-BG 2'-4'
E310002-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		116 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		110 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		116 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		110 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		89.1 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Lily Lateral 8"
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
10/6/2023 2:33:06PM

S-BG 0-2'**E310002-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340038
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		107 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		107 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340056
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		86.8 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340068
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

S-BG 2'-4'
E310002-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		87.1 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E-BG 0-2'

E310002-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		110 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		110 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		94.6 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E-BG 2'-4'
E310002-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		95.5 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

N-BG 0-2'
E310002-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		95.0 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

N-BG 2'-4'
E310002-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		94.6 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

CI 0'-2'
E310002-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		96.1 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

CI 2'-4'
E310002-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		111 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		111 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		98.4 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E2 0-2'

E310002-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		96.9 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E2 2'-4'

E310002-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		110 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		110 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		92.4 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Lily Lateral 8"
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
10/6/2023 2:33:06PM

B2 0-2'

E310002-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340038
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2340038
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340056
Diesel Range Organics (C10-C28)	260	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	198	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		93.9 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340068
Chloride	99.6	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

B2 2'-4'

E310002-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	381	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	301	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		96.2 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	128	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

C3 0-2'
E310002-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	125	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	118	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		91.1 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	29.3	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

C3 2'-4'

E310002-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		94.9 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E5 0-2'
E310002-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	238	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	149	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		96.6 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	46.6	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E5 2'-4'

E310002-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		109 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		96.6 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

C5 0-2'
E310002-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		108 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		94.8 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

C5 2'-4'

E310002-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		107 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/03/23	10/04/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	10/03/23	10/04/23	
Surrogate: Toluene-d8		107 %	70-130	10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340056	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane		94.6 %	50-200	10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340068	
Chloride	39.0	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Lily Lateral 8"
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
10/6/2023 2:33:06PM

B5 0-2'

E310002-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.3 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	84.3 %	50-200		10/04/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

B5 2'-4'

E310002-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.9 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	83.5 %	50-200		10/04/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

A6 0-2'

E310002-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.2 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	83.4 %	50-200		10/04/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon
4518 W. Pierce St
Carlsbad NM, 87401

Project Name: Lily Lateral 8"
Project Number: 21102-0001
Project Manager: Joseph Guesnier

Reported:
10/6/2023 2:33:06PM

A6 2'-4'

E310002-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.1 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	83.0 %	50-200		10/04/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	22.1	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

C6 0-2'

E310002-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.7 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	70.0	25.0	1	10/04/23	10/05/23	
Oil Range Organics (C28-C36)	93.2	50.0	1	10/04/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	85.8 %	50-200		10/04/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	36.2	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

C6 2'-4'

E310002-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.8 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	86.8	25.0	1	10/04/23	10/05/23	
Oil Range Organics (C28-C36)	74.1	50.0	1	10/04/23	10/05/23	
Surrogate: n-Nonane	86.1 %	50-200		10/04/23	10/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	64.2	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E6 0-2'

E310002-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	82.4	25.0	1	10/04/23	10/05/23	
Oil Range Organics (C28-C36)	61.0	50.0	1	10/04/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	85.4 %	50-200		10/04/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	23.2	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E6 2'-4'

E310002-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.2 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	81.5	25.0	1	10/04/23	10/05/23	
Oil Range Organics (C28-C36)	74.5	50.0	1	10/04/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	84.9 %	50-200		10/04/23	10/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	41.2	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

A8 0-2'

E310002-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.3 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	83.4 %	50-200		10/04/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

A8 2'-4'

E310002-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.0 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/05/23	
<i>Surrogate: n-Nonane</i>						
	83.8 %	50-200		10/04/23	10/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

B8 0'-2'

E310002-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.6 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane	85.7 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

B8 2'-4'

E310002-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.1 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	87.7 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

D8 0-2'

E310002-33

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.4 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	35.5	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	86.9 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	161	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

D8 2'-4'

E310002-34

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.2 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	166	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	126	50.0	1	10/04/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	87.6 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	157	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E8 0-2'

E310002-35

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.5 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	86.8 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E8 2'-4'

E310002-36

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.7 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	82.6	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	68.4	50.0	1	10/04/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	87.1 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	80.8	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

A9 0-2'

E310002-37

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.9 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	33.5	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane	87.7 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	34.3	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

A9 2'-4'

E310002-38

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	87.0 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	ND	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

C10 0'-2'

E310002-39

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.6 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	85.2 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	123	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

C10 2'-4'

E310002-40

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Benzene	ND	0.0250	1	10/03/23	10/04/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/04/23	
Toluene	ND	0.0250	1	10/03/23	10/04/23	
o-Xylene	ND	0.0250	1	10/03/23	10/04/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/04/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/04/23	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2340039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/04/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.2 %	70-130		10/03/23	10/04/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2340057	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
Surrogate: n-Nonane	88.4 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2340069	
Chloride	64.3	20.0	1	10/04/23	10/06/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E10 0'-2'

E310002-41

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340046	
Benzene	ND	0.0250	1	10/03/23	10/05/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/05/23	
Toluene	ND	0.0250	1	10/03/23	10/05/23	
o-Xylene	ND	0.0250	1	10/03/23	10/05/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/05/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		10/03/23	10/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		10/03/23	10/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340059	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340074	
Chloride	ND	20.0	1	10/04/23	10/05/23	



Sample Data

Terracon	Project Name:	Lily Lateral 8"	Reported: 10/6/2023 2:33:06PM
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	

E10 2'-4'

E310002-42

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340046	
Benzene	ND	0.0250	1	10/03/23	10/05/23	
Ethylbenzene	ND	0.0250	1	10/03/23	10/05/23	
Toluene	ND	0.0250	1	10/03/23	10/05/23	
o-Xylene	ND	0.0250	1	10/03/23	10/05/23	
p,m-Xylene	ND	0.0500	1	10/03/23	10/05/23	
Total Xylenes	ND	0.0250	1	10/03/23	10/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		10/03/23	10/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2340046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/23	10/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		10/03/23	10/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2340059	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/23	10/06/23	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		10/04/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2340074	
Chloride	ND	20.0	1	10/04/23	10/05/23	



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2340038-BLK1) Prepared: 10/03/23 Analyzed: 10/04/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.562		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

LCS (2340038-BS1) Prepared: 10/03/23 Analyzed: 10/04/23

Benzene	2.49	0.0250	2.50		99.5	70-130			
Ethylbenzene	2.66	0.0250	2.50		107	70-130			
Toluene	2.61	0.0250	2.50		104	70-130			
o-Xylene	2.65	0.0250	2.50		106	70-130			
p,m-Xylene	5.31	0.0500	5.00		106	70-130			
Total Xylenes	7.96	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.596		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			

Matrix Spike (2340038-MS1) Source: E310002-01 Prepared: 10/03/23 Analyzed: 10/04/23

Benzene	2.45	0.0250	2.50	ND	97.9	48-131			
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135			
Toluene	2.57	0.0250	2.50	ND	103	48-130			
o-Xylene	2.54	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.05	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.58	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	0.574		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			

Matrix Spike Dup (2340038-MSD1) Source: E310002-01 Prepared: 10/03/23 Analyzed: 10/04/23

Benzene	2.29	0.0250	2.50	ND	91.5	48-131	6.71	23	
Ethylbenzene	2.43	0.0250	2.50	ND	97.1	45-135	7.61	27	
Toluene	2.37	0.0250	2.50	ND	94.8	48-130	7.94	24	
o-Xylene	2.46	0.0250	2.50	ND	98.5	43-135	2.88	27	
p,m-Xylene	4.90	0.0500	5.00	ND	97.9	43-135	3.04	27	
Total Xylenes	7.36	0.0250	7.50	ND	98.1	43-135	2.99	27	
Surrogate: Bromofluorobenzene	0.591		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340039-BLK1) Prepared: 10/03/23 Analyzed: 10/04/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

LCS (2340039-BS1) Prepared: 10/03/23 Analyzed: 10/04/23

Benzene	4.78	0.0250	5.00		95.6	70-130			
Ethylbenzene	4.64	0.0250	5.00		92.9	70-130			
Toluene	4.81	0.0250	5.00		96.1	70-130			
o-Xylene	4.77	0.0250	5.00		95.3	70-130			
p,m-Xylene	9.62	0.0500	10.0		96.2	70-130			
Total Xylenes	14.4	0.0250	15.0		95.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

Matrix Spike (2340039-MS1) Source: E310002-30 Prepared: 10/03/23 Analyzed: 10/04/23

Benzene	4.86	0.0250	5.00	ND	97.3	54-133			
Ethylbenzene	4.69	0.0250	5.00	ND	93.7	61-133			
Toluene	4.87	0.0250	5.00	ND	97.4	61-130			
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131			
p,m-Xylene	9.69	0.0500	10.0	ND	96.9	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2340039-MSD1) Source: E310002-30 Prepared: 10/03/23 Analyzed: 10/04/23

Benzene	5.06	0.0250	5.00	ND	101	54-133	3.93	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133	4.28	20	
Toluene	5.07	0.0250	5.00	ND	101	61-130	4.09	20	
o-Xylene	5.02	0.0250	5.00	ND	100	63-131	3.97	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	4.21	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	4.13	20	
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340046-BLK1) Prepared: 10/03/23 Analyzed: 10/05/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

LCS (2340046-BS1) Prepared: 10/03/23 Analyzed: 10/05/23

Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.15	0.0250	5.00		103	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			

Matrix Spike (2340046-MS1) Source: E310011-21 Prepared: 10/03/23 Analyzed: 10/05/23

Benzene	5.12	0.0250	5.00	ND	102	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.11	0.0250	5.00	ND	102	61-130			
o-Xylene	5.07	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

Matrix Spike Dup (2340046-MSD1) Source: E310011-21 Prepared: 10/03/23 Analyzed: 10/05/23

Benzene	5.30	0.0250	5.00	ND	106	54-133	3.48	20	
Ethylbenzene	5.26	0.0250	5.00	ND	105	61-133	3.78	20	
Toluene	5.31	0.0250	5.00	ND	106	61-130	3.77	20	
o-Xylene	5.26	0.0250	5.00	ND	105	63-131	3.66	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	3.72	20	
Total Xylenes	16.0	0.0250	15.0	ND	106	63-131	3.70	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340038-BLK1) Prepared: 10/03/23 Analyzed: 10/04/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.562		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

LCS (2340038-BS2) Prepared: 10/03/23 Analyzed: 10/04/23

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.584		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.556		0.500		111	70-130			

Matrix Spike (2340038-MS2) Source: E310002-01 Prepared: 10/03/23 Analyzed: 10/04/23

Gasoline Range Organics (C6-C10)	53.1	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike Dup (2340038-MSD2) Source: E310002-01 Prepared: 10/03/23 Analyzed: 10/04/23

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130	2.19	20	
Surrogate: Bromofluorobenzene	0.578		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340039-BLK1) Prepared: 10/03/23 Analyzed: 10/04/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.95		8.00		86.8	70-130			

LCS (2340039-BS2) Prepared: 10/03/23 Analyzed: 10/04/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.1	70-130			

Matrix Spike (2340039-MS2) Source: E310002-30 Prepared: 10/03/23 Analyzed: 10/04/23

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		8.00		87.9	70-130			

Matrix Spike Dup (2340039-MSD2) Source: E310002-30 Prepared: 10/03/23 Analyzed: 10/04/23

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.1	70-130	2.46	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.4	70-130			



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340046-BLK1)					Prepared: 10/03/23 Analyzed: 10/05/23				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

LCS (2340046-BS2)					Prepared: 10/03/23 Analyzed: 10/05/23				
Gasoline Range Organics (C6-C10)	50.9	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

Matrix Spike (2340046-MS2)					Source: E310011-21		Prepared: 10/03/23 Analyzed: 10/05/23		
Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			

Matrix Spike Dup (2340046-MSD2)					Source: E310011-21		Prepared: 10/03/23 Analyzed: 10/05/23		
Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130	0.496	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340056-BLK1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.8		50.0		99.6	50-200			

LCS (2340056-BS1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Diesel Range Organics (C10-C28)	229	25.0	250		91.7	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

Matrix Spike (2340056-MS1)					Source: E310002-10		Prepared: 10/04/23 Analyzed: 10/06/23		
Diesel Range Organics (C10-C28)	225	25.0	250	ND	89.9	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

Matrix Spike Dup (2340056-MSD1)					Source: E310002-10		Prepared: 10/04/23 Analyzed: 10/06/23		
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.2	38-132	1.43	20	
Surrogate: n-Nonane	45.7		50.0		91.4	50-200			



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340057-BLK1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.1		50.0		82.1	50-200			

LCS (2340057-BS1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Diesel Range Organics (C10-C28)	223	25.0	250		89.3	38-132			
Surrogate: n-Nonane	44.8		50.0		89.5	50-200			

Matrix Spike (2340057-MS1)					Source: E310002-23		Prepared: 10/04/23 Analyzed: 10/05/23		
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.3	38-132			
Surrogate: n-Nonane	40.9		50.0		81.9	50-200			

Matrix Spike Dup (2340057-MSD1)					Source: E310002-23		Prepared: 10/04/23 Analyzed: 10/05/23		
Diesel Range Organics (C10-C28)	224	25.0	250	ND	89.5	38-132	1.94	20	
Surrogate: n-Nonane	39.6		50.0		79.3	50-200			



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340059-BLK1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2340059-BS1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Diesel Range Organics (C10-C28)	206	25.0	250		82.6	38-132			
Surrogate: n-Nonane	54.1		50.0		108	50-200			

Matrix Spike (2340059-MS1)					Source: E309244-07		Prepared: 10/04/23 Analyzed: 10/05/23		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike Dup (2340059-MSD1)					Source: E309244-07		Prepared: 10/04/23 Analyzed: 10/05/23		
Diesel Range Organics (C10-C28)	264	25.0	250	ND	105	38-132	5.87	20	
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2340068-BLK1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Chloride	ND	20.0							
LCS (2340068-BS1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2340068-MS1)					Source: E310002-01		Prepared: 10/04/23 Analyzed: 10/05/23		
Chloride	256	20.0	250	ND	103	80-120			
Matrix Spike Dup (2340068-MSD1)					Source: E310002-01		Prepared: 10/04/23 Analyzed: 10/05/23		
Chloride	256	20.0	250	ND	102	80-120	0.107	20	



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2340069-BLK1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Chloride	ND	20.0							
LCS (2340069-BS1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Chloride	270	20.0	250		108	90-110			
Matrix Spike (2340069-MS1)					Source: E310002-21		Prepared: 10/04/23 Analyzed: 10/05/23		
Chloride	273	20.0	250	ND	109	80-120			
Matrix Spike Dup (2340069-MSD1)					Source: E310002-21		Prepared: 10/04/23 Analyzed: 10/05/23		
Chloride	276	20.0	250	ND	110	80-120	0.847	20	



QC Summary Data

Terracon	Project Name:	Lily Lateral 8"	Reported:
4518 W. Pierce St	Project Number:	21102-0001	
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/6/2023 2:33:06PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2340074-BLK1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Chloride	ND	20.0							
LCS (2340074-BS1)					Prepared: 10/04/23 Analyzed: 10/05/23				
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2340074-MS1)					Source: E309250-01		Prepared: 10/04/23 Analyzed: 10/05/23		
Chloride	1010	20.0	250	780	91.2	80-120			
Matrix Spike Dup (2340074-MSD1)					Source: E309250-01		Prepared: 10/04/23 Analyzed: 10/05/23		
Chloride	1040	20.0	250	780	104	80-120	3.11	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Terracon	Project Name:	Lily Lateral 8"	
4518 W. Pierce St	Project Number:	21102-0001	Reported:
Carlsbad NM, 87401	Project Manager:	Joseph Guesnier	10/06/23 14:33

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



CHAIN OF CUSTODY RECORD

Page 1 of 2

TerraconLaboratory
Address:

ANALYSIS REQUEST

LAB USE ONLY DUE DATE:

Office Location 4518 W. Pierce St Carlsbad NM, 88220

Phone: 806 544 9276

Project Manager Joseph Guesnier

Contact:

Sampler's Name Gus Sanchez

SRS #:

Sampler's Signature

Project Number
KH237040Project Name
Lily Lateral 8"

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Lab Sample ID
S	9-28	12:02		X	W - BG	0'	2'	1			X	X	X	1
		12:04			W - BG	2'	4'	1						2
		12:37			S - BG	0'	2'	1						3
		12:39			S - BG	2'	4'	1						4
		12:48			E - BG	0'	2'	1						5
		12:50			E - BG	2'	4'	1						6
		13:02			N - BG	0'	2'	1						7
		13:04			N - BG	2'	4'	1						8
		13:37			C1	0'	2'	1						9
		13:39			C1	2'	4'	1						10
		13:52			E2	0'	2'	1						11
		13:54			E2	2'	4'	1						12
		14:04			B2	0'	2'	1						13
		14:06			B2	2'	4'	1						14
		14:18			C3	0'	2'	1						15
		14:20			C3	2'	4'	1						16
		14:36			E5	0'	2'	1						17
		14:38			E5	2'	4'	1						18
		14:48			C5	0'	2'	1						19
		14:50			C5	2'	4'	1						20
		14:58			B5	0'	2'	1						21
		15:00			B5	2'	4'	1						22

TURNAROUND TIME

☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush

TRRP Laboratory Review Checklist

☐ Yes ☐ No

Relinquished by (Signature)

Date:

Time:

Received by (Signature)

Date:

Time:

Bill To:

Relinquished by (Signature)

Date:

Time:

Received by (Signature)

Date:

Time:

Relinquished by (Signature)

Date:

Time:

Received by (Signature)

Date:

Time:

TEMP OF COOLER

WHEN RECEIVED (oC)

Matrix WW-Wastewater W - Water 3 - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge

Container VOA - 40 ml vial A/G - Amber G 250 ml = Glass wide mouth P/O - Plastic or other

e-mail results to:

joseph.guesnier@terracon.com

travis.casey@terracon.com

mike.adams@terracon.com

beckysue.miller@terracon.com JG

agroves@terraresources.com

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

CHAIN OF CUSTODY RECORD

Page 2 of 2

TerraconLaboratory
Address:

ANALYSIS REQUEST

LAB USE ONLY DUE DATE:

Office Location

4518 W. Pierce St Carlsbad NM, 88220

Phone:

Contact:

SRS #:

Sampler's Signature

Project Manager *Joseph Guesnier*Sampler's Name *Joe GUS Sanchez*

Project Number

K4237040

Project Name

Lily Latrod

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Lab Sample ID
S	9-28	15:02		X	AG	0	2'	1			X	X	X	23
		15:04			AG	2'	4'	1						24
		15:28			CG	0	2'	1						25
		15:30			CG	2	4'	1						26
		15:52			EG	0	2'	1						27
		15:54			EG	2	4'	1						28
		16:12			AG	0	2'	1						29
		16:14			AG	2	4'	1						30
		16:28			BS	0	2'	1						31
		16:30			BS	2	4'	1						32
		16:45			DS	0	2'	1						33
		16:47			DS	2	4'	1						34
		17:01			ES	0	2'	1						35
		17:03			ES	2	4'	1						36
		17:12			AG	0	2'	1						37
		17:14			AG	2	4'	1						38
		17:24			C10	0	2'	1						39
		17:26			C10	2	4'	1						40
		17:42			E10	0	2'	1						41
		17:44			E10	2	4'	1						42

TURNAROUND TIME

☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush

TRRP Laboratory Review Checklist

☐ Yes ☐ No

Relinquished by (Signature)

Date:

Time:

Received by (Signature)

Date:

Time:

Bill To:

Relinquished by (Signature)

Date:

Time:

Received by (Signature)

Date:

Time:

Relinquished by (Signature)

Date:

Time:

Received by (Signature)

Date:

Time:

TEMP OF COOLER

WHEN RECEIVED (oC)

Matrix WW-Wastewater W - Water ☒ - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge

Container VOA - 40 ml vial A/G - Amber G 250 ml = Glass wide mouth P/O - Plastic or other

e-mail results to:

joseph.guesnier@terracon.com

travis.casey@terracon.com

mike.adams@terracon.com

beckysue.miller@terracon.com 36

agrabes@terracon.com

Envirotech Analytical Laboratory

Printed: 10/4/2023 12:17:08PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Terracon	Date Received:	09/30/23 09:30	Work Order ID:	E310002
Phone:	(806) 544-9276	Date Logged In:	10/02/23 11:49	Logged In By:	Alexa Michaels
Email:	joseph.guesnier@terracon.com	Due Date:	10/06/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? No
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project number KH237040. Received 2 extra samples that had same names as sample #41 & 42. Client asked to discard the extra samples.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Appendix D

State Correspondence

Long, Brittany

From: Long, Brittany
Sent: Friday, December 8, 2023 2:13 PM
To: Enviro, OCD, EMNRD
Cc: Gonzales, Clair; Mauk, Madeline
Subject: Targa Lily Lateral 8"(nAPP2319273619) Confirmation Sampling Notification

To whom it may concern,

Tetra Tech is scheduled to collect 5 point confirmation, bottom hole and sidewall samples, for the Targa Resources Lily Lateral 8" remediation (nAPP2319273619) starting on Wednesday, December 13, 2023, at 8:00 AM. These samples will be placed within the remediation and will continue each day as the remediation progresses. Please let me know if you have any questions or need any additional information.

Best Regards,

Brittany D. Long,

Brittany D. Long | Biologist & Project Manager

Phone: 432.682.4559 | Mobile 432.741.5813 | Fax:432.682.3946

Brittany.Long@tetratech.com

Tetra Tech | Leading with Science®

901 West Wall Street, Suite 100 Midland, Texas 79701

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Appendix E

Laboratory Reports

Report to:
Brittany Long



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Targa

Project Name: Lily Lateral 8" Remediation

Work Order: E312137

Job Number: 21102-0001

Received: 12/20/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/29/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/29/23

Brittany Long
12600 WCR 91
Midland, TX 79707



Project Name: Lily Lateral 8" Remediation
Workorder: E312137
Date Received: 12/20/2023 8:30:00AM

Brittany Long,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/20/2023 8:30:00AM, under the Project Name: Lily Lateral 8" Remediation.

The analytical test results summarized in this report with the Project Name: Lily Lateral 8" Remediation apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Targa	Project Name:	Lily Lateral 8" Remediation	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	12/29/23 10:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH-1 (4.5')	E312137-01A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
BH-2 (4.5')	E312137-02A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
BH-3 (4.5')	E312137-03A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
BH-4 (4.5')	E312137-04A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
BH-5 (2.0')	E312137-05A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
BH-6 (2.0')	E312137-06A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
BH-7 (5.5')	E312137-07A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
BH-8 (2.0')	E312137-08A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
BH-9 (2.0')	E312137-09A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
BH-10 (4.5')	E312137-10A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
BH-11 (4.5')	E312137-11A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-1	E312137-12A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-2	E312137-13A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-3	E312137-14A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-4	E312137-15A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-5	E312137-16A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-6	E312137-17A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-7	E312137-18A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-8	E312137-19A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-9	E312137-20A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-10	E312137-21A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-11	E312137-22A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-12	E312137-23A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-13	E312137-24A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.
SW-14	E312137-25A	Soil	12/18/23	12/20/23	Glass Jar, 4 oz.



Sample Data

Targa 12600 WCR 91 Midland TX, 79707	Project Name: Project Number: Project Manager:	Lily Lateral 8" Remediation 21102-0001 Brittany Long	Reported: 12/29/2023 10:07:38AM
--	--	--	---

BH-1 (4.5')

E312137-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
---------	--------	--------------------	----------	----------	----------	-------

Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067	
Benzene	ND	0.0250	1	12/20/23	12/20/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/20/23	
Toluene	ND	0.0250	1	12/20/23	12/20/23	
o-Xylene	ND	0.0250	1	12/20/23	12/20/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/20/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/20/23	

Surrogate: Bromofluorobenzene	119 %	70-130	12/20/23	12/20/23	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130	12/20/23	12/20/23	
Surrogate: Toluene-d8	106 %	70-130	12/20/23	12/20/23	

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/20/23
Surrogate: Bromofluorobenzene	119 %	70-130		12/20/23	12/20/23
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		12/20/23	12/20/23
Surrogate: Toluene-d8	106 %	70-130		12/20/23	12/20/23

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	78.5	25.0	1	12/22/23	12/22/23
Oil Range Organics (C28-C36)	64.7	50.0	1	12/22/23	12/22/23
Surrogate: n-Nonane	83.7 %	50-200	12/22/23	12/22/23	

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2351103	
Chloride	56.6	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

BH-2 (4.5')

E312137-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		83.0 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	278	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

BH-3 (4.5')
E312137-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067	
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2351093	
Diesel Range Organics (C10-C28)	59.7	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		84.8 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2351103	
Chloride	141	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

BH-4 (4.5')
E312137-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		85.1 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

BH-5 (2.0')
E312137-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		83.8 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

BH-6 (2.0')
E312137-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		83.5 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

BH-7 (5.5')
E312137-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/20/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/20/23	
Toluene	ND	0.0250	1	12/20/23	12/20/23	
o-Xylene	ND	0.0250	1	12/20/23	12/20/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/20/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/20/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/20/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	12/20/23	12/20/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/20/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/20/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	12/20/23	12/20/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		79.6 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa 12600 WCR 91 Midland TX, 79707	Project Name: Lily Lateral 8" Remediation Project Number: 21102-0001 Project Manager: Brittany Long	Reported: 12/29/2023 10:07:38AM
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BH-8 (2.0')
E312137-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067	
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2351093	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		84.9 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2351103	
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

BH-9 (2.0')
E312137-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		115 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		115 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		83.3 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

BH-10 (4.5')
E312137-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		122 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		106 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		122 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		106 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		82.4 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

BH-11 (4.5')
E312137-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067	
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2351093	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		82.4 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2351103	
Chloride	60.7	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

SW-1

E312137-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067	
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2351093	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		84.2 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2351103	
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

SW-2

E312137-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		106 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		106 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		84.0 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

SW-3

E312137-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		106 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		106 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		84.8 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

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E312137-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		84.0 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

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E312137-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		117 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		117 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		85.2 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa 12600 WCR 91 Midland TX, 79707	Project Name: Lily Lateral 8" Remediation Project Number: 21102-0001 Project Manager: Brittany Long	Reported: 12/29/2023 10:07:38AM
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E312137-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		116 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		116 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		82.8 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

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E312137-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		116 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		116 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		79.8 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	37.4	20.0	1	12/22/23	12/28/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

SW-8

E312137-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		117 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		117 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351093
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		79.5 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351103
Chloride	34.0	20.0	1	12/22/23	12/28/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

SW-9

E312137-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067	
Benzene	ND	0.0250	1	12/20/23	12/21/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/21/23	
Toluene	ND	0.0250	1	12/20/23	12/21/23	
o-Xylene	ND	0.0250	1	12/20/23	12/21/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/21/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/21/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/21/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	12/20/23	12/21/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2351093	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/23/23	
Surrogate: n-Nonane		80.9 %	50-200	12/22/23	12/23/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2351103	
Chloride	36.1	20.0	1	12/22/23	12/28/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

SW-10
E312137-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351066
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351066
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		109 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351090
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		94.1 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351097
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa 12600 WCR 91 Midland TX, 79707	Project Name: Lily Lateral 8" Remediation Project Number: 21102-0001 Project Manager: Brittany Long	Reported: 12/29/2023 10:07:38AM
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SW-11

E312137-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351066
Benzene	ND	0.0250	1	12/20/23	12/22/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/22/23	
Toluene	ND	0.0250	1	12/20/23	12/22/23	
o-Xylene	ND	0.0250	1	12/20/23	12/22/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/22/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		121 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351066
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/22/23	
Surrogate: Bromofluorobenzene		121 %	70-130	12/20/23	12/22/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	12/20/23	12/22/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351090
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		90.7 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351097
Chloride	29.0	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

SW-12

E312137-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351066
Benzene	ND	0.0250	1	12/20/23	12/23/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/23/23	
Toluene	ND	0.0250	1	12/20/23	12/23/23	
o-Xylene	ND	0.0250	1	12/20/23	12/23/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/23/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/23/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/23/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	12/20/23	12/23/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/23/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351066
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/23/23	
Surrogate: Bromofluorobenzene		118 %	70-130	12/20/23	12/23/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	12/20/23	12/23/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351090
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		90.8 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351097
Chloride	ND	20.0	1	12/22/23	12/22/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

SW-13
E312137-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351066
Benzene	ND	0.0250	1	12/20/23	12/23/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/23/23	
Toluene	ND	0.0250	1	12/20/23	12/23/23	
o-Xylene	ND	0.0250	1	12/20/23	12/23/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/23/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/23/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	12/20/23	12/23/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/23/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2351066
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/23/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	12/20/23	12/23/23	
Surrogate: Toluene-d8		107 %	70-130	12/20/23	12/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2351090
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		90.2 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2351097
Chloride	ND	20.0	1	12/22/23	12/23/23	



Sample Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported: 12/29/2023 10:07:38AM
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	

SW-14
E312137-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351066	
Benzene	ND	0.0250	1	12/20/23	12/23/23	
Ethylbenzene	ND	0.0250	1	12/20/23	12/23/23	
Toluene	ND	0.0250	1	12/20/23	12/23/23	
o-Xylene	ND	0.0250	1	12/20/23	12/23/23	
p,m-Xylene	ND	0.0500	1	12/20/23	12/23/23	
Total Xylenes	ND	0.0250	1	12/20/23	12/23/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/23/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	12/20/23	12/23/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/23/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2351066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/23	12/23/23	
Surrogate: Bromofluorobenzene		119 %	70-130	12/20/23	12/23/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	12/20/23	12/23/23	
Surrogate: Toluene-d8		108 %	70-130	12/20/23	12/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2351090	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/22/23	12/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/22/23	12/22/23	
Surrogate: n-Nonane		89.1 %	50-200	12/22/23	12/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2351097	
Chloride	26.5	20.0	1	12/22/23	12/23/23	



QC Summary Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	12/29/2023 10:07:38AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2351066-BLK1) Prepared: 12/20/23 Analyzed: 12/22/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.605		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

LCS (2351066-BS1) Prepared: 12/20/23 Analyzed: 12/22/23

Benzene	2.79	0.0250	2.50		112	70-130			
Ethylbenzene	2.64	0.0250	2.50		105	70-130			
Toluene	2.63	0.0250	2.50		105	70-130			
o-Xylene	2.66	0.0250	2.50		107	70-130			
p,m-Xylene	5.33	0.0500	5.00		107	70-130			
Total Xylenes	7.99	0.0250	7.50		107	70-130			
Surrogate: Bromofluorobenzene	0.620		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

Matrix Spike (2351066-MS1) Source: E312133-09 Prepared: 12/20/23 Analyzed: 12/22/23

Benzene	2.94	0.0250	2.50	ND	117	48-131			
Ethylbenzene	2.77	0.0250	2.50	ND	111	45-135			
Toluene	2.78	0.0250	2.50	ND	111	48-130			
o-Xylene	2.75	0.0250	2.50	ND	110	43-135			
p,m-Xylene	5.57	0.0500	5.00	ND	111	43-135			
Total Xylenes	8.32	0.0250	7.50	ND	111	43-135			
Surrogate: Bromofluorobenzene	0.629		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

Matrix Spike Dup (2351066-MSD1) Source: E312133-09 Prepared: 12/20/23 Analyzed: 12/22/23

Benzene	2.92	0.0250	2.50	ND	117	48-131	0.718	23	
Ethylbenzene	2.71	0.0250	2.50	ND	109	45-135	1.97	27	
Toluene	2.70	0.0250	2.50	ND	108	48-130	2.91	24	
o-Xylene	2.70	0.0250	2.50	ND	108	43-135	2.06	27	
p,m-Xylene	5.43	0.0500	5.00	ND	109	43-135	2.58	27	
Total Xylenes	8.13	0.0250	7.50	ND	108	43-135	2.41	27	
Surrogate: Bromofluorobenzene	0.617		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			



QC Summary Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	12/29/2023 10:07:38AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2351067-BLK1) Prepared: 12/20/23 Analyzed: 12/20/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.607		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			

LCS (2351067-BS1) Prepared: 12/20/23 Analyzed: 12/20/23

Benzene	2.76	0.0250	2.50		110	70-130			
Ethylbenzene	2.68	0.0250	2.50		107	70-130			
Toluene	2.64	0.0250	2.50		105	70-130			
o-Xylene	2.65	0.0250	2.50		106	70-130			
p,m-Xylene	5.27	0.0500	5.00		105	70-130			
Total Xylenes	7.92	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.611		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2351067-MS1) Source: E312137-07 Prepared: 12/20/23 Analyzed: 12/20/23

Benzene	2.60	0.0250	2.50	ND	104	48-131			
Ethylbenzene	2.47	0.0250	2.50	ND	98.9	45-135			
Toluene	2.45	0.0250	2.50	ND	98.0	48-130			
o-Xylene	2.43	0.0250	2.50	ND	97.2	43-135			
p,m-Xylene	4.90	0.0500	5.00	ND	97.9	43-135			
Total Xylenes	7.33	0.0250	7.50	ND	97.7	43-135			
Surrogate: Bromofluorobenzene	0.608		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2351067-MSD1) Source: E312137-07 Prepared: 12/20/23 Analyzed: 12/20/23

Benzene	2.76	0.0250	2.50	ND	110	48-131	6.12	23	
Ethylbenzene	2.69	0.0250	2.50	ND	108	45-135	8.33	27	
Toluene	2.67	0.0250	2.50	ND	107	48-130	8.45	24	
o-Xylene	2.67	0.0250	2.50	ND	107	43-135	9.33	27	
p,m-Xylene	5.36	0.0500	5.00	ND	107	43-135	9.09	27	
Total Xylenes	8.03	0.0250	7.50	ND	107	43-135	9.17	27	
Surrogate: Bromofluorobenzene	0.620		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			



QC Summary Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	12/29/2023 10:07:38AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2351066-BLK1) Prepared: 12/20/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.605		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

LCS (2351066-BS2) Prepared: 12/20/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.620		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2351066-MS2) Source: E312133-09 Prepared: 12/20/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.613		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			

Matrix Spike Dup (2351066-MSD2) Source: E312133-09 Prepared: 12/20/23 Analyzed: 12/22/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	1.01	20	
Surrogate: Bromofluorobenzene	0.617		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.556		0.500		111	70-130			



QC Summary Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	12/29/2023 10:07:38AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2351067-BLK1) Prepared: 12/20/23 Analyzed: 12/20/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.607		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			

LCS (2351067-BS2) Prepared: 12/20/23 Analyzed: 12/20/23

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.618		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

Matrix Spike (2351067-MS2) Source: E312137-07 Prepared: 12/20/23 Analyzed: 12/20/23

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.610		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			

Matrix Spike Dup (2351067-MSD2) Source: E312137-07 Prepared: 12/20/23 Analyzed: 12/20/23

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130	0.762	20	
Surrogate: Bromofluorobenzene	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			



QC Summary Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	12/29/2023 10:07:38AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351090-BLK1)					Prepared: 12/22/23 Analyzed: 12/22/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

LCS (2351090-BS1)					Prepared: 12/22/23 Analyzed: 12/22/23				
Diesel Range Organics (C10-C28)	234	25.0	250		93.5	38-132			
Surrogate: n-Nonane	45.8		50.0		91.5	50-200			

Matrix Spike (2351090-MS1)					Source: E312157-03		Prepared: 12/22/23 Analyzed: 12/22/23		
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	48.8		50.0		97.6	50-200			

Matrix Spike Dup (2351090-MSD1)					Source: E312157-03		Prepared: 12/22/23 Analyzed: 12/22/23		
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	1.72	20	
Surrogate: n-Nonane	48.5		50.0		97.0	50-200			



QC Summary Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	12/29/2023 10:07:38AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2351093-BLK1)					Prepared: 12/22/23 Analyzed: 12/22/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.3		50.0		84.6	50-200			

LCS (2351093-BS1)					Prepared: 12/22/23 Analyzed: 12/22/23				
Diesel Range Organics (C10-C28)	223	25.0	250		89.2	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike (2351093-MS1)					Source: E312137-13		Prepared: 12/22/23 Analyzed: 12/22/23		
Diesel Range Organics (C10-C28)	222	25.0	250	ND	89.0	38-132			
Surrogate: n-Nonane	40.5		50.0		80.9	50-200			

Matrix Spike Dup (2351093-MSD1)					Source: E312137-13		Prepared: 12/22/23 Analyzed: 12/22/23		
Diesel Range Organics (C10-C28)	222	25.0	250	ND	88.9	38-132	0.138	20	
Surrogate: n-Nonane	41.7		50.0		83.5	50-200			



QC Summary Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	12/29/2023 10:07:38AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2351097-BLK1)					Prepared: 12/22/23 Analyzed: 12/22/23				
Chloride	ND	20.0							
LCS (2351097-BS1)					Prepared: 12/22/23 Analyzed: 12/22/23				
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2351097-MS1)					Source: E312137-23		Prepared: 12/22/23 Analyzed: 12/22/23		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2351097-MSD1)					Source: E312137-23		Prepared: 12/22/23 Analyzed: 12/22/23		
Chloride	266	20.0	250	ND	106	80-120	2.08	20	



QC Summary Data

Targa	Project Name:	Lily Lateral 8" Remediation	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	12/29/2023 10:07:38AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2351103-BLK1)					Prepared: 12/22/23 Analyzed: 12/22/23				
Chloride	ND	20.0							
LCS (2351103-BS1)					Prepared: 12/22/23 Analyzed: 12/22/23				
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2351103-MS1)					Source: E312137-02		Prepared: 12/22/23 Analyzed: 12/23/23		
Chloride	529	20.0	250	278	100	80-120			
Matrix Spike Dup (2351103-MSD1)					Source: E312137-02		Prepared: 12/22/23 Analyzed: 12/23/23		
Chloride	528	20.0	250	278	100	80-120	0.153	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Targa	Project Name:	Lily Lateral 8" Remediation	
12600 WCR 91	Project Number:	21102-0001	Reported:
Midland TX, 79707	Project Manager:	Brittany Long	12/29/23 10:07

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Released to Imaging: 4/19/2024 9:39:46 AM

Received by OCH: 4/2/2024 8:33:54 AM



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Targa	Site Manager:	Brittanny Long
Project Name:	Lily Lateral 8" Remediation		432-741-5813 Brittanny.Long@tetratech.com
Project Location: (county, state)	Eddy County, NM	Project #:	212C-MD-03301
Invoice to:	Attn: <u>Amber Groves</u>		
Receiving Laboratory:	Envirotech	Sampler Signature:	Jorge Fernandez

Comments: E312137 Job# 21102-0001

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		YEAR: 2023		WATER	SOIL		HCL	HNO ₃	ICE				
		DATE	TIME										
1	BH-1 (4.5')	12/18/2023			X				X				
2	BH-2 (4.5')	12/18/2023			X				X				
3	BH-3 (4.5')	12/18/2023			X				X				
4	BH-4 (4.5')	12/18/2023			X				X				
5	BH-5 (2.0')	12/18/2023			X				X				
6	BH-6 (2.0')	12/18/2023			X				X				
7	BH-7 (5.5')	12/18/2023			X				X				
8	BH-8 (2.0')	12/18/2023			X				X				
9	BH-9 (2.0')	12/18/2023			X				X				
10	BH-10 (4.5')	12/18/2023			X				X				

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<u>Jorge Fernandez Velo</u>			<u>Michelle Gough</u>	<u>12-19-23</u>	<u>0745</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<u>Michelle Gough</u>	<u>12-19-23</u>	<u>1615</u>	<u>Andrew</u>	<u>12-19-23</u>	<u>1700</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<u>Andrew</u>	<u>12-19-23</u>	<u>2330</u>	<u>Ally</u>	<u>12/20/23</u>	<u>830</u>

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance

LAB USE ONLY

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature: 4°C

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Targa	Site Manager:	Brittanny Long
Project Name:	Lily Lateral 8" Remediation Brittanny.Long@tetrattech.com		
Project Location: (county, state)	Eddy County, NM	Project #:	212C-MD-03301
Invoice to:	Attn: <u>Amber Graes</u>		
Receiving Laboratory:	Envirotech	Sampler Signature:	Jorge Fernandez

Comments:

E312137 job# 21102-0001

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8021B	TPH TX1005 (Ext to C	TPH 8015M (GRO - L	PAH 8270C	Total Metals Ag As Ba	TCLP Metals Ag As Ba	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 6	GC/MS Semi. Vol. 82	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate	General Water Chem	Anion/Cation Balance					
		YEAR: 2023		WATER	SOIL		HCL	HNO ₃	ICE																											
		DATE	TIME																																	
11	BH-11 (4.5')	12/18/2023		X				X					X	X																						
12	SW-1	12/18/2023		X				X					X	X													X									
13	SW-2	12/18/2023		X				X					X	X													X									
14	SW-3	12/18/2023		X				X					X	X													X									
15	SW-4	12/18/2023		X				X					X	X													X									
16	SW-5	12/18/2023		X									X	X													X									
17	SW-6	12/18/2023		X				X					X	X													X									
18	SW-7	12/18/2023		X				X					X	X													X									
19	SW-8	12/18/2023		X				X					X	X													X									
20	SW-9	12/18/2023		X				X					X	X													X									

Relinquished by: <i>George Fernandez Velo</i>	Date: <i>12-19-23</i>	Time: <i>1615</i>	Received by: <i>Michelle Gargyle</i>	Date: <i>12-19-23</i>	Time: <i>0745</i>
Relinquished by: <i>Michelle Gargyle</i>	Date: <i>12-19-23</i>	Time: <i>1615</i>	Received by: <i>Andrew Moss</i>	Date: <i>12-19-23</i>	Time: <i>1700</i>
Relinquished by: <i>Andrew Moss</i>	Date: <i>12-19-23</i>	Time: <i>2330</i>	Received by: <i>Alvin</i>	Date: <i>12/20/23</i>	Time: <i>830</i>

LAB USE ONLY

Sample Temperature

4°C

REMARKS:	Standard TAT
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☐ **RUSH:** Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Released to Imaging: 4/19/2024 9:39:46 AM

Received by OCD: 4/2/2024 8:33:54 AM



Client Name:	Targa	Site Manager:	Brittanny Long
Project Name:	Lily Lateral 8" Remediation		432-741-5813 Brittanny.Long@tetratech.com
Project Location: (county, state)	Eddy County, NM	Project #:	212C-MD-03301
Invoice to:	Attn: <i>Amber Groves</i>		
Receiving Laboratory:	Envirotech	Sampler Signature:	Jorge Fernandez

[illegible][illegible]

Relinquished by: <i>Jorge Fernandez Vela</i>	Date: <i>12-19-23</i>	Time: <i>1615</i>	Relinquished by: <i>Michelle Gungah</i>	Date: <i>12-19-23</i>	Time: <i>0745</i>
Relinquished by: <i>Michelle Gungah</i>	Date: <i>12-19-23</i>	Time: <i>1615</i>	Received by: <i>Andrew M. Sosa</i>	Date: <i>12-19-23</i>	Time: <i>1700</i>
Relinquished by: <i>Andrew M. Sosa</i>	Date: <i>12-19-23</i>	Time: <i>1730</i>	Received by: <i>Allyson</i>	Date: <i>12/20/23</i>	Time: <i>830</i>

<p>LAB USE ONLY</p> <p>Sample Temperature</p> <p>4°C</p>	<p>REMARKS: Standard TAT</p>
	<p><input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr</p> <p><input type="checkbox"/> Rush Charges Authorized</p> <p><input type="checkbox"/> Special Report Limits or TRRP Report</p>

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 42 of 43

Page 146 of 179

Envirotech Analytical Laboratory

Printed: 12/20/2023 3:19:33PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Targa	Date Received:	12/20/23 08:30	Work Order ID:	E312137
Phone:	(432) 999-8675	Date Logged In:	12/20/23 09:40	Logged In By:	Alexa Michaels
Email:	brittany.long@tetrattech.com	Due Date:	12/28/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution**

Time sampled is not documented on the COC by client. White-out is visible on COC when received from client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Brittany Long



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Targa

Project Name: Lily Lateral

Work Order: E401035

Job Number: 21102-0001

Received: 1/10/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/11/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/11/24

Brittany Long
12600 WCR 91
Midland, TX 79707



Project Name: Lily Lateral
Workorder: E401035
Date Received: 1/10/2024 8:45:00AM

Brittany Long,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/10/2024 8:45:00AM, under the Project Name: Lily Lateral.

The analytical test results summarized in this report with the Project Name: Lily Lateral apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Targa	Project Name:	Lily Lateral	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	01/11/24 16:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH-1 (5.5')	E401035-01A	Soil	01/09/24	01/10/24	Glass Jar, 2 oz.



Sample Data

Targa	Project Name:	Lily Lateral	
12600 WCR 91	Project Number:	21102-0001	Reported:
Midland TX, 79707	Project Manager:	Brittany Long	1/11/2024 4:26:32PM

BH-1 (5.5')

E401035-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2402033
Benzene	ND	0.0250	1	01/10/24	01/10/24	
Ethylbenzene	ND	0.0250	1	01/10/24	01/10/24	
Toluene	ND	0.0250	1	01/10/24	01/10/24	
o-Xylene	ND	0.0250	1	01/10/24	01/10/24	
p,m-Xylene	ND	0.0500	1	01/10/24	01/10/24	
Total Xylenes	ND	0.0250	1	01/10/24	01/10/24	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		01/10/24	01/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2402033
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/10/24	01/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		01/10/24	01/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2402036
Diesel Range Organics (C10-C28)	ND	25.0	1	01/10/24	01/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/10/24	01/10/24	
Surrogate: n-Nonane	87.6 %	50-200		01/10/24	01/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2402037
Chloride	ND	20.0	1	01/10/24	01/10/24	



QC Summary Data

Targa	Project Name:	Lily Lateral	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	1/11/2024 4:26:32PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2402033-BLK1) Prepared: 01/10/24 Analyzed: 01/10/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

LCS (2402033-BS1) Prepared: 01/10/24 Analyzed: 01/10/24

Benzene	4.71	0.0250	5.00		94.2	70-130			
Ethylbenzene	4.69	0.0250	5.00		93.8	70-130			
Toluene	4.74	0.0250	5.00		94.7	70-130			
o-Xylene	4.72	0.0250	5.00		94.5	70-130			
p,m-Xylene	9.57	0.0500	10.0		95.7	70-130			
Total Xylenes	14.3	0.0250	15.0		95.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

Matrix Spike (2402033-MS1) Source: E401037-02 Prepared: 01/10/24 Analyzed: 01/10/24

Benzene	4.70	0.0250	5.00	ND	94.0	54-133			
Ethylbenzene	4.67	0.0250	5.00	ND	93.5	61-133			
Toluene	4.73	0.0250	5.00	ND	94.6	61-130			
o-Xylene	4.71	0.0250	5.00	ND	94.1	63-131			
p,m-Xylene	9.52	0.0500	10.0	ND	95.2	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.2	70-130			

Matrix Spike Dup (2402033-MSD1) Source: E401037-02 Prepared: 01/10/24 Analyzed: 01/10/24

Benzene	4.99	0.0250	5.00	ND	99.9	54-133	6.06	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	61-133	6.23	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	5.95	20	
o-Xylene	5.00	0.0250	5.00	ND	100	63-131	6.03	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	6.40	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	6.27	20	
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			



QC Summary Data

Targa	Project Name:	Lily Lateral	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	1/11/2024 4:26:32PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2402033-BLK1) Prepared: 01/10/24 Analyzed: 01/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			

LCS (2402033-BS2) Prepared: 01/10/24 Analyzed: 01/10/24

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130			

Matrix Spike (2402033-MS2) Source: E401037-02 Prepared: 01/10/24 Analyzed: 01/10/24

Gasoline Range Organics (C6-C10)	51.3	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.2	70-130			

Matrix Spike Dup (2402033-MSD2) Source: E401037-02 Prepared: 01/10/24 Analyzed: 01/10/24

Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	4.37	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			



QC Summary Data

Targa	Project Name:	Lily Lateral	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	1/11/2024 4:26:32PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2402036-BLK1) Prepared: 01/10/24 Analyzed: 01/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.6	50-200			

LCS (2402036-BS1) Prepared: 01/10/24 Analyzed: 01/10/24

Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132			
Surrogate: n-Nonane	47.3		50.0		94.5	50-200			

Matrix Spike (2402036-MS1) Source: E401037-01 Prepared: 01/10/24 Analyzed: 01/10/24

Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			

Matrix Spike Dup (2402036-MSD1) Source: E401037-01 Prepared: 01/10/24 Analyzed: 01/10/24

Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	38-132	3.33	20	
Surrogate: n-Nonane	46.7		50.0		93.3	50-200			



QC Summary Data

Targa	Project Name:	Lily Lateral	Reported:
12600 WCR 91	Project Number:	21102-0001	
Midland TX, 79707	Project Manager:	Brittany Long	1/11/2024 4:26:32PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2402037-BLK1)					Prepared: 01/10/24 Analyzed: 01/10/24				
Chloride	ND	20.0							
LCS (2402037-BS1)					Prepared: 01/10/24 Analyzed: 01/10/24				
Chloride	247	20.0	250		99.0	90-110			
Matrix Spike (2402037-MS1)					Source: E401031-02		Prepared: 01/10/24 Analyzed: 01/10/24		
Chloride	354	20.0	250	104	99.7	80-120			
Matrix Spike Dup (2402037-MSD1)					Source: E401031-02		Prepared: 01/10/24 Analyzed: 01/10/24		
Chloride	357	20.0	250	104	101	80-120	1.04	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Targa	Project Name:	Lily Lateral	
12600 WCR 91	Project Number:	21102-0001	Reported:
Midland TX, 79707	Project Manager:	Brittany Long	01/11/24 16:26

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





Lab wo# E401035
Job # 21102-0001

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible][illegible]

Relinquished by: <i>Matthew Estrada</i>	Date: <i>1-9-24</i>	Time: <i>1115</i>	Received by: <i>Michelle Gayle</i>	Date: <i>1-9-24</i>	Time: <i>1115</i>
Relinquished by: <i>Michelle Gayle</i>	Date: <i>1-9-24</i>	Time: <i>1600</i>	Received by: <i>Andrew Musso</i>	Date: <i>1-9-24</i>	Time: <i>1700</i>
Relinquished by: <i>Andrew Musso</i>	Date: <i>1-9-24</i>	Time: <i>1700</i>	Received by: <i>Andrew Musso</i>	Date: <i>1/10/24</i>	Time: <i>845</i>

LAB USE
ONLY

Sample Temperature

4°

REMARKS:

☐ **RUSH:** Same Day ☒ 24 hr ☐ 48 hr ☐ 72 hr☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Envirotech Analytical Laboratory

Printed: 1/10/2024 11:25:45AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Targa	Date Received:	01/10/24 08:45	Work Order ID:	E401035
Phone:	(432) 999-8675	Date Logged In:	01/09/24 16:24	Logged In By:	Alexa Michaels
Email:	brittany.long@tetrattech.com	Due Date:	01/10/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



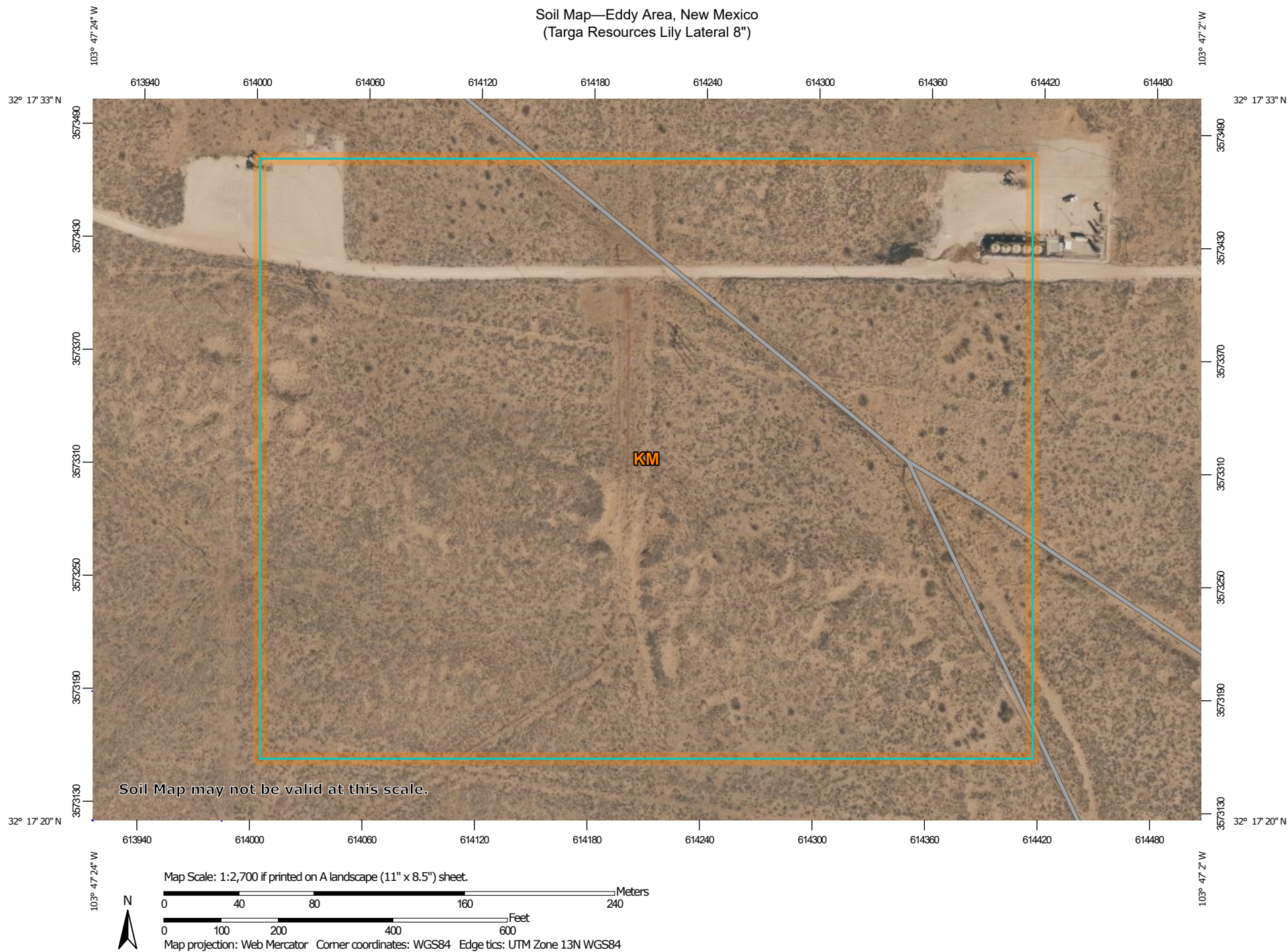
envirotech Inc.



Appendix F

Soil Survey Data

Soil Map—Eddy Area, New Mexico
(Targa Resources Lily Lateral 8")



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

2/29/2024
Page 1 of 3


Soil Map—Eddy Area, New Mexico
(Targa Resources Lily Lateral 8")


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermite-Berino fine sands, 0 to 3 percent slopes	32.6	100.0%
Totals for Area of Interest		32.6	100.0%

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Targa Resources Lily Lateral 8"

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q

Elevation: 3,100 to 4,200 feet

Mean annual precipitation: 10 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent

Berino and similar soils: 35 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand

H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Targa Resources Lily Lateral 8"

Description of Berino

Setting

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 50 inches: fine sandy loam
H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

(26)

BLM SERIAL #:

COMPANY REFERENCE:

3.1 Seed Mixture 1, for Loamy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains lovegrass (<i>Eragrostis intermedia</i>)	0.5
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sideoats grama (<i>Bouteloua curtipendula</i>)	5.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

(27)

BLM Serial #:

Company Reference:

3.2 Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed: Pounds of seed x percent purity x percent germination = pounds pure live seed

(28)

BLM SERIAL #:

COMPANY REFERENCE:

3.3 Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed: Pounds of seed x percent purity x percent germination = pounds pure live seed

(29)

BLM SERIAL #:

COMPANY REFERENCE:

3.4 Seed Mixture 3, for Shallow Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass (<i>Setaria magrostachya</i>)	1.0
Green Spangletop (<i>Leptochloa dubia</i>)	2.0
Side oats Grama (<i>Bouteloua curtipendula</i>)	5.0

*Pounds of pure live seed: Pounds of seed x percent purity x percent germination = pounds pure live seed

(30)

BLM SERIAL #:

COMPANY REFERENCE:

3.5 Seed Mixture 4, for Gypsum Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Alkali Sacaton (Sporobolus airoides)	1.0
DWS Four-wing saltbush (Atriplex canescens) (DWS: DeWinged Seed)	5.0

*Pounds of pure live seed: Pounds of seed x percent purity x percent germination = pounds pure live seed

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

QUESTIONS

Action 328697

QUESTIONS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID:	331548
	Action Number:	328697
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2319273619
Incident Name	NAPP2319273619 LILY 8" LATERAL @ 0
Incident Type	Natural Gas Release
Incident Status	Reclamation Report Received
Incident Facility	[fAPP2123031392] TARGA NORTHERN DELAWARE, LLC.

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LILY 8" LATERAL
Date Release Discovered	07/11/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Natural Gas Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Cause: Corrosion Pipeline (Any) Condensate Released: 10 BBL Recovered: 0 BBL Lost: 10 BBL.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 328697

QUESTIONS (continued)

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID:	331548
	Action Number:	328697
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Amber Groves Title: Environmental Specialist Email: agroves@targaresources.com Date: 04/02/2024
--	--

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QUESTIONS, Page 3

Action 328697

QUESTIONS (continued)

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID:
	331548
	Action Number: 328697
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	278
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	458
GRO+DRO (EPA SW-846 Method 8015M)	260
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	12/12/2023
On what date will (or did) the final sampling or liner inspection occur	12/18/2023
On what date will (or was) the remediation complete(d)	01/09/2024
What is the estimated surface area (in square feet) that will be reclaimed	5430
What is the estimated volume (in cubic yards) that will be reclaimed	490
What is the estimated surface area (in square feet) that will be remediated	3075
What is the estimated volume (in cubic yards) that will be remediated	490

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 328697

QUESTIONS (continued)

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID:	331548
	Action Number:	328697
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amber Groves Title: Environmental Specialist Email: agroves@targaresources.com Date: 04/02/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 328697

QUESTIONS (continued)

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 328697
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 328697

QUESTIONS (continued)

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID:
	331548
	Action Number:
	328697
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	328712
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/18/2023
What was the (estimated) number of samples that were to be gathered	24
What was the sampling surface area in square feet	3075

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3075
What was the total volume (cubic yards) remediated	490
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	5430
What was the total volume (in cubic yards) reclaimed	490
Summarize any additional remediation activities not included by answers (above)	Please see attached closure report.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Amber Groves Title: Environmental Specialist Email: agroves@targaresources.com Date: 04/02/2024
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Action 328697

QUESTIONS (continued)

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID:	331548
	Action Number:	328697
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Reclamation Report**

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	5430
What was the total volume of replacement material (in cubic yards) for this site	490

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	02/01/2024

Summarize any additional reclamation activities not included by answers (above)	The site was seeded with BLM Mixture #2, included in the closure report attached.
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The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Amber Groves Title: Environmental Specialist Email: agroves@targaresources.com Date: 04/02/2024
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QUESTIONS, Page 8

Action 328697

QUESTIONS (continued)

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 328697
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 328697

CONDITIONS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 328697
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scwells	Reclamation approved. Going forward, at least one (1) representative 5-point composite sample will also need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation and laboratory results provided to the OCD in order to receive reclamation approval.	4/19/2024