

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	NAPP2307233858
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party ETC Texas Pipeline, Ltd.	OGRID 371183
Contact Name Dean D. Ericson	Contact Telephone 432-238-2142
Contact email dean.ericson@energytransfer.com	Incident # (assigned by OCD)
Contact mailing address 600 N. Marienfeld St., Suite 700, Midland, TX 79701	

Location of Release Source

Latitude 32.3824 Longitude -103.203046
(NAD 83 in decimal degrees to 5 decimal places)

Site Name M-4 Release	Site Type Pipeline
Date Release Discovered 03/09/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
	19	22S	R37E	Lea

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 type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 3.5	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) Pipeline Liquids	Volume/Weight Released (provide units) 60.60bbls	Volume/Weight Recovered (provide units) 0bbls
Cause of Release Unknown at this time		

Incident ID	NAPP2307233858
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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? > 25bbbls released
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice given by Dean D. Ericson to Jennifer Nobui on 03/10/23 by phone	

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 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 NMSLO, Arc Survey must be completed prior to any ground disturbance. Arc Survey has not been completed at this time. Qualified Arc Monitor is not available to be on-site until 03/15/23 to begin initial Clean-up efforts	
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: <u>Dean D. Ericson</u>	Title: <u>Sr. Environmental Specialist</u>
Signature: <u>Dean D. Ericson</u>	Date: <u>03/10/2023</u>
email: <u>dean.ericson@energytransfer.com</u>	Telephone: <u>432-238-2142</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>03/13/2023</u>

Incident ID	NAPP2307233858
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Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Dean Ericson

Title: Sr. Environmental Specialist

Signature: Dean D. Ericson

Date: 07/14/2023

email: dean.ericson@energytransfer.com

Telephone: 432-238-2142

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez

Date: 10/05/2023

Printed Name: Nelson Velez

Title: Environmental Specialist - Adv

2135 S. Loop 250,
Midland, Texas 79703
United States
www.ghd.com

Our ref: 12608422

July 06, 2023

State of New Mexico Energy, Minerals and Resource Oil Conservation Division
District I
1625 N. French Dr.
Hobbs, NM 88240

Re: **Site Closure Report**
ETC Texas Pipeline, Ltd.
M-4 Release Site
Incident ID: nAPP2307233858
B and C-19-22S-37E, Lea County, New Mexico

1. Introduction

GHD Services, Inc. (GHD), on behalf of ETC Texas Pipeline, Ltd. (ETCTP) submits this Site Closure Report to the State of New Mexico Energy, Minerals and Resource Oil Conservation Division (OCD) District I Office. This report provides documentation of remediation activities and analyses in the natural gas and pipeline fluids impacted area at the M-4 Release Site (Site). The Site is located in Unit Letter B and C Section 19 of Township 22 South and Range 37 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.3824° N Latitude and 103.203046° W Longitude. The surface owner of the land where the release occurred is New Mexico State Trust Land. Figure 1 depicts the Site location. The Site and other details are depicted on Figure 2.

2. Background and Regulatory Notification Information

The release is subject to the jurisdiction of the OCD District I Office in Hobbs, New Mexico. Notice was given to the OCD via Notification of Release (NOR) Submission, Action 196103. A C-141 Release Notification for this release was submitted to the OCD on March 10, 2023. The C-141 stated 3.5 Mcf of natural gas and 60.60 barrels (bbls) of other pipeline fluids were released from the pipeline. The OCD assigned the release with Incident Number nAPP2307233858. The cause of the release is unknown. Approximately 0 bbls of pipeline liquids were recovered. The Release Notification and Closure portions of Form C-141 are attached to the front of this report.

3. Site Characterization and Closure Criteria

GHD characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12) (NMAC Table I Closure Criteria).

The Site Characterization and Remediation Work Plan dated March 29, 2023, was approved by the NMOCD on May 11, 2023. Details of the Site Characterization documentation and initial remedial activities can be found in the aforementioned report. The current Closure Criteria are listed below:

General Site Characterization and Groundwater Information:

Site Characterization	Average Groundwater Depth (ft)
No Receptors Found	Unknown, treated as less than fifty (50) feet

Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Regulatory Standard	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH (GRO+DRO+MRO) (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 feet)	600	--	100	50	10
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	600	--	100	50	10

4. Excavation, Confirmation Sampling, and Waste Management

ETCTP personnel mobilized to the Site in March and May 2023 to perform excavation activities on the affected area of the Site. Depths ranged from four (4) to ten (10) feet below ground surface (bgs). On May 12, 2023, GHD mobilized to the Site to collect five-point composite confirmation samples. Thirty-three (33) bottom hole (BH-1 through BH-33) and thirty-two (32) sidewall (SW-1 through SW-32) composite confirmation samples were collected. Composite confirmation samples represented areas no greater than 400 square feet, which was approved by NMOCD in correspondence dated May 1, 2023. The 400 square feet confirmation sample approval correspondence is included as Attachment A. Samples were placed in laboratory-provided containers, which were immediately labelled, sealed, and stored/transported in a cooler containing ice to a laboratory certified by the National Environmental Laboratory Program (NELAP) for analysis. All samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW846 Method 8021B, total petroleum hydrocarbons (TPH) by EPA SW46 Method 8015B Modified, and chloride by EPA Method 9056-Cl-B.

Analytical results indicated seven (7) of the bottom hole samples exhibited TPH concentrations above Table I Closure Criteria (BH-1, BH-7, BH-11, BH-13, BH-15, BH-21, and BH-23). Ten (10) of the sidewall samples exhibited TPH or chloride concentrations above Table I Closure Criteria (SW-1, SW-2, SW-4, SW-7, SW-8, SW-15, SW-21, SW-22, SW-28, and SW-29).

Due to analytical concentrations above Table I Closure Criteria, ETCTP returned to the Site to recollect samples. The areas around BH-1, BH-7, BH-11, BH-13, BH-15, BH-21, and BH-23 were resampled (BH-1A, BH-7A, BH-11A, BH-13A, BH-15A, BH-21A, and BH-23A). The sidewalls where SW-1, SW-2, SW-4, SW-7, SW-8, SW-15, SW-21, SW-22, SW-28, and SW-29 were collected were resampled (SW-1A, SW-2A, SW-4A, SW-7A, SW-8A, SW-15A, SW-21A, SW-22A, SW-28A, and SW-29A). Composite confirmation samples represented areas no greater than 400 square feet. Samples were placed in laboratory-provided containers, which were immediately labelled, sealed, and stored/transported in a cooler containing ice to a laboratory certified by the National Environmental Laboratory Program (NELAP) for analysis. All samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW46 Method 8015B Modified, and chloride by EPA Method 9056-CI-B.

Analytical results indicated none of the samples exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria. Analytical results are included in Table 1 and in the laboratory analytical reports included as Attachment B. Sample locations are shown on Figure 2.

Waste management activities were performed in coordination with ETCTP directives. ETCTP obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (fJEG1635837006), Sundance Services West, Inc. facility located at 196 Wallach Ln, Eunice, NM, 88231. Approximately 2,520 yards of impacted soils were removed from the remedial excavation and disposed of. The approved C-138 and waste manifests are available upon request but are not attached due to the size of the file. A summary of soil disposal is included in Table 2. A photographic log is included as Attachment C. Sampling notifications are included in Attachment A.

5. nAPP2307233858 Closure Request

The excavation was backfilled with non-impacted virgin soil transported to the Site from a locally sourced pit. Approximately sixteen (16) pounds of native grass seed was applied to the excavation area on June 19, 2023. Site Characterization and remediation activities for Incident nAPP2307233858 have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of ETCTP, respectfully requests closure of nAPP2307233858.

If you have any questions or comments concerning this Site Closure Report, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,

GHD



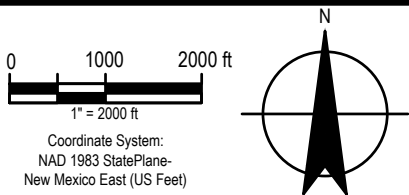
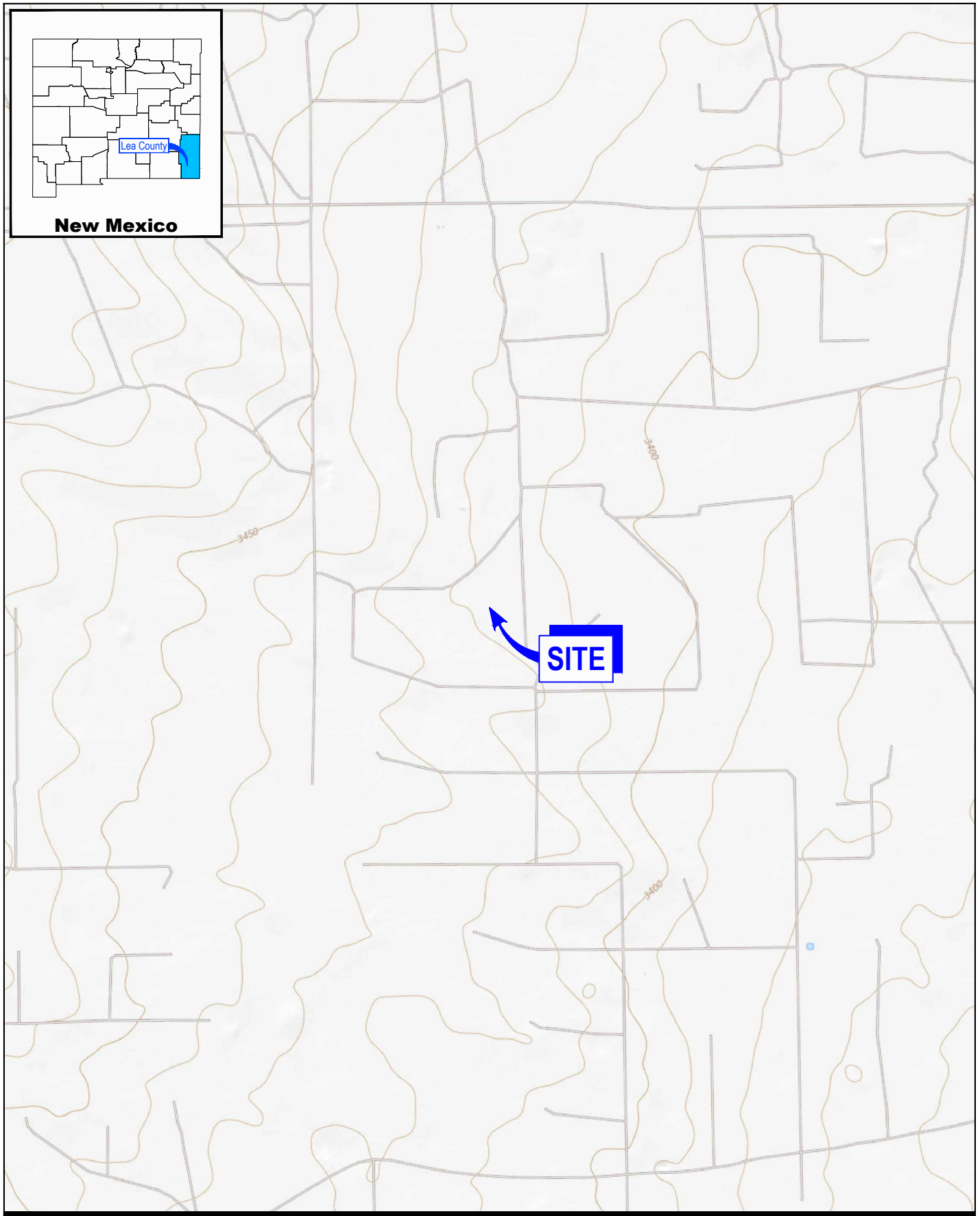
Nate Reece
Environmental Scientist

J.T. Murrey
Senior Project Director

Encl. Figure 1 – Site Location Map
 Figure 2 – Confirmation Sample Locations Map
 Table 1 – Summary of Soil Analytical Data
 Table 2 – Daily Soil Disposal Summary
 Attachment A – NMOCD Correspondence
 Attachment B – Laboratory Analytical Reports and Chain-of-Custody Documentation
 Attachment C – Photographic Log

cc: Dean Ericson, ETCTP

Figures

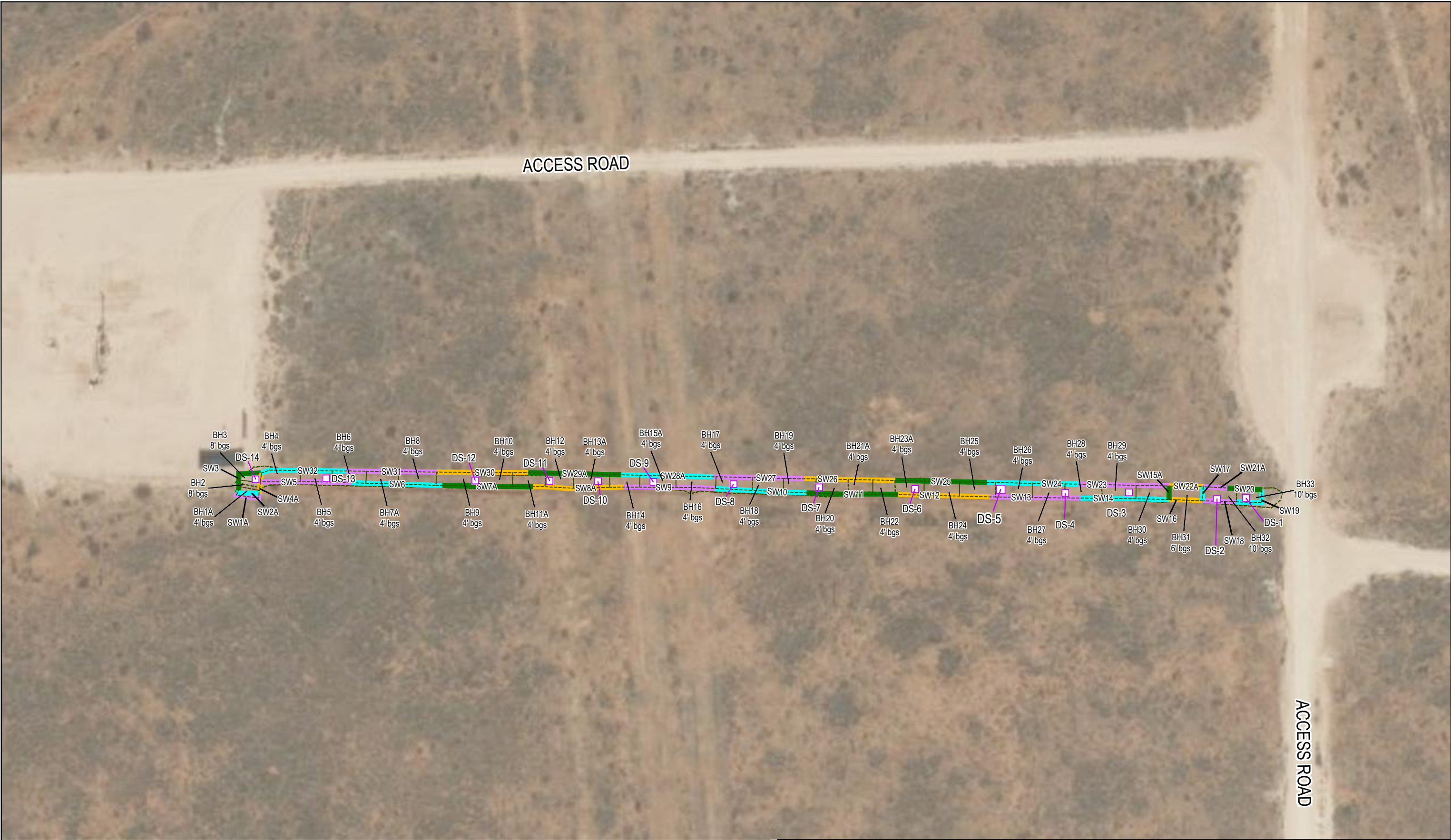


ETC TEXAS PIPELINE, Ltd.
LEA COUNTY, NEW MEXICO
M-4 RELEASE

Project No. 12608422
Date March 2023

SITE LOCATION MAP

FIGURE 1

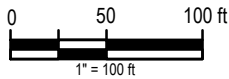


LEGEND

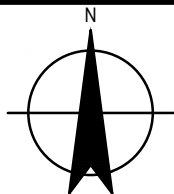
- EXCAVATED AREA
- SW2 INDICATES SIDE WALL COMPOSITE SAMPLE
- SW4 INDICATES SIDE WALL COMPOSITE SAMPLE
- SW5 INDICATES SIDE WALL COMPOSITE SAMPLE
- SW3 INDICATES SIDE WALL COMPOSITE SAMPLE

NOTES:

SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.



Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)



ETC TEXAS PIPELINE, LTD.
LEA COUNTY, NEW MEXICO
M-4 RELEASE

CONFIRMATION SAMPLE
LOCATIONS MAP

Project No. 12608422
Date June 2023

FIGURE 2

Tables

Table 1
Summary of Soil Analytical Data
M-4 Release
nAPP2307233858
Lea County, New Mexico

SAMPLE ID	SAMPLE DATE	DEPTH (FEET BGS)	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	BTEX	TPH				CHLORIDE (Lab)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	TOTAL GRO/DRO/MRO	(mg/kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10	---	---	---	50	---	---	---	100	600
Bottom Hole Confirmation Samples												
BH-1	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	117	17.3	134.3	32.0
BH-1A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-2	5/12/23	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
BH-3	5/12/23	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.9	<10.0	17.9	<16.0
BH-4	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.5	<10.0	22.5	32.0
BH-5	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	45.5	<10.0	45.5	16.0
BH-6	5/12/23	4	<0.050	0.062	0.072	0.191	0.326	<10.0	18.7	<10.0	18.7	48.0
BH-7	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	186	38.4	224.4	64.0
BH-7A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.9	<10.0	15.9	16.0
BH-8	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.4	<10.0	18.4	96.0
BH-9	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.0	<10.0	12.0	64.0
BH-10	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.1	<10.0	14.1	32.0
BH-11	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	385	72.7	457.7	32.0
BH-11A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
BH-12	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
BH-13	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	134	31.6	165.6	32.0
BH-13A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
BH-14	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-15	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	148	28.8	176.8	32.0
BH-15A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
BH-16	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	512
BH-17	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.8	<10.0	12.8	48.0
BH-18	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
BH-19	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
BH-20	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	41.8	<10.0	41.8	16.0
BH-21	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	91.3	11.9	103.2	48.0
BH-21A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-22	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-23	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	346	57.1	403.1	64.0
BH-23A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-24	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-25	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0

Table 1
Summary of Soil Analytical Data
M-4 Release
nAPP2307233858
Lea County, New Mexico

SAMPLE ID	SAMPLE DATE	DEPTH (FEET BGS)	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	BTEX	TPH				CHLORIDE (Lab)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	TOTAL GRO/DRO/MRO	(mg/kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10	---	---	---	50	---	---	---	100	600
BH-26	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-27	5/12/23	4	<0.050	<0.050	0.065	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
BH-28	5/12/23	4	<0.050	<0.050	0.107	0.269	0.376	<10.0	<10.0	<10.0	<10.0	32.0
BH-29	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
BH-30	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-31	5/12/23	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.1	<10.0	11.1	64.0
BH-32	5/12/23	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
BH-33	5/12/23	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
Sidewall Confirmation Samples												
SW 1	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	136	30.2	166.2	64.0
SW-1A	6/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW 2	5/12/23	4-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	118	24.2	142.2	48.0
SW-2A	6/12/23	4-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-3	5/12/23	0-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW 4	5/12/23	0-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	286	46.6	332.6	64.0
SW-4A	6/12/23	0-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.1	10.5	41.6	32.0
SW-5	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	34.1	<10.0	34.1	<16.0
SW-6	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.3	<10.0	13.3	16.0
SW 7	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	440	115	555	32.0
SW-7A	6/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.4	<10.0	10.4	48.0
SW 8	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	126	11.9	137.9	32.0
SW-8A	6/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-9	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.1	<10.0	36.1	<16.0
SW-10	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-11	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	41.8	15.3	57.1	32.0
SW-12	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-13	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-14	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW 15	5/12/23	4-6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	565	181	746	128
SW-15A	6/12/23	4-6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-16	5/12/23	0-6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.1	<10.0	10.1	400
SW-17	5/12/23	6-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
SW-18	5/12/23	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	512

Table 1
Summary of Soil Analytical Data
M-4 Release
nAPP2307233858
Lea County, New Mexico

SAMPLE ID	SAMPLE DATE	DEPTH (FEET BGS)	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	BTEX	TPH				CHLORIDE (Lab)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	TOTAL GRO/DRO/MRO	(mg/kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10	---	---	---	50	---	---	---	100	600
SW-19	5/12/23	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.6	<10.0	11.6	16.0
SW-20	5/12/23	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	48.5	14.8	63.3	80.0
SW-21	5/12/23	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	79.3	98.4	801.4	352
SW-21A	6/12/23	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW-22	5/12/23	0-6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	47.7	<10.0	47.7	1200
SW-22A	6/12/23	0-6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	32.3	<10.0	32.3	48.0
SW-23	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW-24	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW-25	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.7	<10.0	10.7	<16.0
SW-26	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.0	10.6	27.6	<16.0
SW-27	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.1	<10.0	15.1	<16.0
SW-28	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	161	29.2	190.2	192
SW-28A	6/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	32.9	<10.0	32.9	32.0
SW-29	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	216	41.1	257.1	32.0
SW-29A	6/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW-30	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	93.3	<10.0	93.3	32.0
SW-31	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW-32	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.8	<10.0	<10.0	<16.0

Notes:

1. Values reported in mg/kg

2. < = Value Less than Reporting Limit (RL)

3. Bold Indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B.

5. TPH analyses by EPA Method SW 8015 Mod.

B-BH-2	Sample Point Excavated
--------	------------------------

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

Table 2
Daily Disposal Summary
M-4 Release
nAPP2307233858
Lea County, New Mexico

Date of Disposal	Total Yards Disposed
3/14/2023	60
5/1/2023	60
5/2/2023	240
5/3/2023	340
5/4/2023	120
5/5/2023	360
5/8/2023	300
5/9/2023	360
5/10/2023	360
5/11/2023	100
5/12/2023	220
Project Total	2,520

Attachment A

NMOCD Correspondence

Nate Reece

From: J.T. Murrey
Sent: Monday, May 1, 2023 4:06 PM
To: Ericson, Dean; Nate Reece
Subject: FW: [EXTERNAL] nAPP2307233858 - Proposed Work Plan Variance Request

CompleteRepository: 12608422
Description: ET - M-4 Release
JobNo: 12608422
OperatingCentre: 562
RepoEmail: 12608422@ghd.com
RepoType: Project

Gentlemen,

Requested 500 but got 400 which is still great.

Thanks

J.T. Murrey

GHD

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2135 S. Loop 250 West, Midland, TX 79703 USA
M 361 252 6136 | **E** jt.murrey@ghd.com

GHD FIRST 24 Hour Emergency Response
US: 866 812 9565
Canada: 800 679 9082

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From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Monday, May 1, 2023 3:03 PM
To: J.T. Murrey <JT.Murrey@ghd.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] nAPP2307233858 - Proposed Work Plan Variance Request

Hello J.T.

Upon review of you request, OCD approves your request with a slight modification. As depth to groundwater was not established, composite confirmation samples can be collected from the bottom and sidewalls of the excavation from areas representing no more than four hundred (400) square feet.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Please let me know if you have any questions.

Thanks,
Jennifer Nobui

From: J.T. Murrey <JT.Murrey@ghd.com>

Sent: Monday, May 1, 2023 1:41 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nate Reece <Nate.Reece@ghd.com>; Ericson, Dean <Dean.Ericson@energyTransfer.com>

Subject: [EXTERNAL] nAPP2307233858 - Proposed Work Plan Variance Request

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ETC Texas Pipeline submitted a Site Characterization and Soil Remediation Work Plan for the release. Contractors are currently working to initiate the remediation of the release but it appears the affected area is larger than originally anticipated. As a result, we are requesting a variance to the sampling grid that was originally proposed (every 200 square feet) to one sample for every 500 square feet.

Please let us know if this variance is approved.

Thanks!

J.T. Murrey

GHD

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2135 S. Loop 250 West, Midland, TX 79703 USA

M 361 252 6136 | E jt.murrey@ghd.com

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US: 866 812 9565

Canada: 800 679 9082

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Nate Reece

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, May 10, 2023 10:35 AM
To: Nate Reece
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Sampling Notification - M-4

Nate,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Nate Reece <Nate.Reece@ghd.com>
Sent: Tuesday, May 9, 2023 12:32 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: J.T. Murrey <JT.Murrey@ghd.com>; Ericson, Dean <Dean.Ericson@energyTransfer.com>; Daniel Sparks <Daniel.Sparks@ghd.com>
Subject: [EXTERNAL] Sampling Notification - M-4

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To Whom it May Concern,

GHD on behalf of ETC Texas Pipeline, respectfully submits notification of sampling to be conducted at the below locations:.

M-4 Release
19-22S-37E
Lea County, NM
nAPP2307233858

Sampling will begin at 7:00 a.m. on Thursday, May 11, 2023 and be continuous through May 26, 2023.

Thank You,

Nate Reece
Environmental Scientist

GHD

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11451 Katy Fwy #400, Houston, TX 77079 United States

M +1 281 386 7158 | E nate.reece@ghd.com

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Attachment B

Laboratory Analytical Reports and Chain-of-Custody Documentation



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 18, 2023

NATE REECE

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE, NM 87110

RE: M-4 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/15/23 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1	H232416-01	Soil	12-May-23 00:00	15-May-23 14:25
BH-2	H232416-02	Soil	12-May-23 00:00	15-May-23 14:25
BH-3	H232416-03	Soil	12-May-23 00:00	15-May-23 14:25
BH-4	H232416-04	Soil	12-May-23 00:00	15-May-23 14:25
BH-5	H232416-05	Soil	12-May-23 00:00	15-May-23 14:25
BH-6	H232416-06	Soil	12-May-23 00:00	15-May-23 14:25
BH-7	H232416-07	Soil	12-May-23 00:00	15-May-23 14:25
BH-8	H232416-08	Soil	12-May-23 00:00	15-May-23 14:25
BH-9	H232416-09	Soil	12-May-23 00:00	15-May-23 14:25
BH-10	H232416-10	Soil	12-May-23 00:00	15-May-23 14:25
BH-11	H232416-11	Soil	12-May-23 00:00	15-May-23 14:25
BH-12	H232416-12	Soil	12-May-23 00:00	15-May-23 14:25
BH-13	H232416-13	Soil	12-May-23 00:00	15-May-23 14:25
BH-14	H232416-14	Soil	12-May-23 00:00	15-May-23 14:25
BH-15	H232416-15	Soil	12-May-23 00:00	15-May-23 14:25
BH-16	H232416-16	Soil	12-May-23 00:00	15-May-23 14:25
BH-17	H232416-17	Soil	12-May-23 00:00	15-May-23 14:25
BH-18	H232416-18	Soil	12-May-23 00:00	15-May-23 14:25
BH-19	H232416-19	Soil	12-May-23 00:00	15-May-23 14:25
BH-20	H232416-20	Soil	12-May-23 00:00	15-May-23 14:25
BH-21	H232416-21	Soil	12-May-23 00:00	15-May-23 14:25
BH-22	H232416-22	Soil	12-May-23 00:00	15-May-23 14:25
BH-23	H232416-23	Soil	12-May-23 00:00	15-May-23 14:25
BH-24	H232416-24	Soil	12-May-23 00:00	15-May-23 14:25
BH-25	H232416-25	Soil	12-May-23 00:00	15-May-23 14:25
BH-26	H232416-26	Soil	12-May-23 00:00	15-May-23 14:25
BH-27	H232416-27	Soil	12-May-23 00:00	15-May-23 14:25

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-28	H232416-28	Soil	12-May-23 00:00	15-May-23 14:25
BH-29	H232416-29	Soil	12-May-23 00:00	15-May-23 14:25
BH-30	H232416-30	Soil	12-May-23 00:00	15-May-23 14:25
BH-31	H232416-31	Soil	12-May-23 00:00	15-May-23 14:25
BH-32	H232416-32	Soil	12-May-23 00:00	15-May-23 14:25
BH-33	H232416-33	Soil	12-May-23 00:00	15-May-23 14:25
SW-1	H232416-34	Soil	12-May-23 00:00	15-May-23 14:25
SW-2	H232416-35	Soil	12-May-23 00:00	15-May-23 14:25
SW-3	H232416-36	Soil	12-May-23 00:00	15-May-23 14:25
SW-4	H232416-37	Soil	12-May-23 00:00	15-May-23 14:25
SW-5	H232416-38	Soil	12-May-23 00:00	15-May-23 14:25
SW-6	H232416-39	Soil	12-May-23 00:00	15-May-23 14:25
SW-7	H232416-40	Soil	12-May-23 00:00	15-May-23 14:25
SW-8	H232416-41	Soil	12-May-23 00:00	15-May-23 14:25
SW-9	H232416-42	Soil	12-May-23 00:00	15-May-23 14:25
SW-10	H232416-43	Soil	12-May-23 00:00	15-May-23 14:25
SW-11	H232416-44	Soil	12-May-23 00:00	15-May-23 14:25
SW-12	H232416-45	Soil	12-May-23 00:00	15-May-23 14:25
SW-13	H232416-46	Soil	12-May-23 00:00	15-May-23 14:25
SW-14	H232416-47	Soil	12-May-23 00:00	15-May-23 14:25
SW-15	H232416-48	Soil	12-May-23 00:00	15-May-23 14:25
SW-16	H232416-49	Soil	12-May-23 00:00	15-May-23 14:25
SW-17	H232416-50	Soil	12-May-23 00:00	15-May-23 14:25
SW-18	H232416-51	Soil	12-May-23 00:00	15-May-23 14:25
SW-19	H232416-52	Soil	12-May-23 00:00	15-May-23 14:25
SW-20	H232416-53	Soil	12-May-23 00:00	15-May-23 14:25
SW-21	H232416-54	Soil	12-May-23 00:00	15-May-23 14:25
SW-22	H232416-55	Soil	12-May-23 00:00	15-May-23 14:25
SW-23	H232416-56	Soil	12-May-23 00:00	15-May-23 14:25
SW-24	H232416-57	Soil	12-May-23 00:00	15-May-23 14:25

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-25	H232416-58	Soil	12-May-23 00:00	15-May-23 14:25
SW-26	H232416-59	Soil	12-May-23 00:00	15-May-23 14:25
SW-27	H232416-60	Soil	12-May-23 00:00	15-May-23 14:25
SW-28	H232416-61	Soil	12-May-23 00:00	15-May-23 14:25
SW-29	H232416-62	Soil	12-May-23 00:00	15-May-23 14:25
SW-30	H232416-63	Soil	12-May-23 00:00	15-May-23 14:25
SW-31	H232416-64	Soil	12-May-23 00:00	15-May-23 14:25
SW-32	H232416-65	Soil	12-May-23 00:00	15-May-23 14:25

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-1
H232416-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	117		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	17.3		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 103 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 124 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-2
H232416-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 110 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 139 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-3
H232416-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	17.9		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 114 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 142 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-4
H232416-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	22.5		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 98.5 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 125 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-5
H232416-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	45.5		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 109 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 136 % 49.1-148 3051539 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-6
H232416-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	0.062		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	
Ethylbenzene*	0.072		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	
Total Xylenes*	0.191		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	
Total BTEX	0.326		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	18.7		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 104 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 118 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-7
H232416-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	186		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	38.4		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 118 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 145 % 49.1-148 3051539 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-8
H232416-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	18.4		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 120 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 140 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-9
H232416-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	12.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 96.1 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 112 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-10
H232416-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	14.1		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 93.0 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 112 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-11
H232416-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	385		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	72.7		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 115 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 125 % 49.1-148 3051539 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-12
H232416-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	288		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 112 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 128 % 49.1-148 3051539 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-13
H232416-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	0.057		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	
Ethylbenzene*	0.088		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	
Total Xylenes*	0.208		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	
Total BTEX	0.352		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	134		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	31.6		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 110 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 129 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-14
H232416-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 119 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 134 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-15
H232416-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	148		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	28.8		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 113 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 143 % 49.1-148 3051539 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-16
H232416-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	512		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050	0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050	0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150	0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300	0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 128 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 162 % 49.1-148 3051539 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-17
H232416-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134 3051606 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	12.8		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 79.7 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-18
H232416-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 123 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 156 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-19
H232416-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 119 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 150 % 49.1-148 3051539 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-20
H232416-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	41.8		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 121 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 147 % 49.1-148 3051539 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-21
H232416-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	91.3		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	11.9		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 98.3 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 103 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-22**H232416-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 95.7 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148 3051540 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-23**H232416-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	346		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	57.1		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 118 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 130 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-24
H232416-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 93.1 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148 3051540 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-25
H232416-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 93.5 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148 3051540 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-26
H232416-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 96.9 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-27**H232416-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	0.065		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 92.3 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-28
H232416-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	0.107		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	
Total Xylenes*	0.269		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	
Total BTEX	0.376		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 86.2 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-29
H232416-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 103 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 104 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-30
H232416-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 91.6 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-31
H232416-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	11.1		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 117 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 127 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-32
H232416-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 115 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 120 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

BH-33
H232416-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 101 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 103 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-1
H232416-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	136		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	30.2		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 95.8 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 105 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-2
H232416-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	118		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	24.2		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 86.5 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-3
H232416-36 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050	0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050	0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150	0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300	0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 92.8 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-4
H232416-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051607 JH/ 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	286		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	46.6		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 106 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 116 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-5
H232416-38 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	QM-07, QR-03, U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	QM-07, QR-03, U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	QM-07, QR-03, U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	QM-07, QR-03, U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U
Surrogate: 4-Bromofluorobenzene (PID)			105 %		71.5-134	3051608	JH	16-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	34.1		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
Surrogate: 1-Chlorooctane			120 %		48.2-134	3051540	MS	16-May-23	8015B	
Surrogate: 1-Chlorooctadecane			129 %		49.1-148	3051540	MS	16-May-23	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-6
H232416-39 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	13.3		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 113 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 113 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-7
H232416-40 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	440		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	115		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 96.8 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 120 % 49.1-148 3051540 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-8
H232416-41 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	126		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	11.9		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 128 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 138 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-9
H232416-42 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	36.1		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 130 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 143 % 49.1-148 3051541 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-10
H232416-43 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 140 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 148 % 49.1-148 3051541 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-11**H232416-44 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	41.8		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	15.3		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 114 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 113 % 49.1-148 3051541 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-12
H232416-45 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 120 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 114 % 49.1-148 3051541 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-13**H232416-46 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 128 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 136 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-14
H232416-47 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 103 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 102 % 49.1-148 3051541 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-15
H232416-48 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	565		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	181		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 125 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 158 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-16
H232416-49 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	400		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	10.1		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 117 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 127 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-17**H232416-50 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 118 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 128 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-18
H232416-51 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	512		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050	0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050	0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150	0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300	0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 141 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 155 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-19**H232416-52 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	11.6		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 146 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 159 % 49.1-148 3051541 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-20
H232416-53 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	48.5		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	14.8		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 128 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 137 % 49.1-148 3051541 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-21**H232416-54 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	352		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	703		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	98.4		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 112 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 138 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-22**H232416-55 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1200		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	47.7		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 132 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 141 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-23**H232416-56 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 107 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 103 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-24**H232416-57 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051608 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 117 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 120 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-25
H232416-58 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	QM-07, U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	QM-07, U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	QM-07, U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051609 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	10.7		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 115 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 104 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-26
H232416-59 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3051609 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	17.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	10.6		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 122 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 124 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-27**H232416-60 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3051609 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	15.1		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 130 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 138 % 49.1-148 3051541 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-28**H232416-61 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 3051609 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
DRO >C10-C28*	161		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	
EXT DRO >C28-C36	29.2		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 97.7 % 48.2-134 3051544 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 108 % 49.1-148 3051544 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-29**H232416-62 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 3051609 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
DRO >C10-C28*	216		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	
EXT DRO >C28-C36	41.1		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 91.4 % 48.2-134 3051544 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 104 % 49.1-148 3051544 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-30
H232416-63 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3051609 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
DRO >C10-C28*	93.3		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 81.5 % 48.2-134 3051544 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148 3051544 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-31
H232416-64 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051609 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 90.0 % 48.2-134 3051544 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148 3051544 MS 16-May-23 8015B

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

SW-32
H232416-65 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3051609 JH 16-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
DRO >C10-C28*	13.8		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 80.6 % 48.2-134 3051544 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148 3051544 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3051630 - 1:4 DI Water**Blank (3051630-BLK1)**

Prepared & Analyzed: 16-May-23

Chloride	ND	16.0	mg/kg							U
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LCS (3051630-BS1)

Prepared & Analyzed: 16-May-23

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (3051630-BSD1)

Prepared & Analyzed: 16-May-23

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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Batch 3051631 - 1:4 DI Water**Blank (3051631-BLK1)**

Prepared & Analyzed: 16-May-23

Chloride	ND	16.0	mg/kg							U
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LCS (3051631-BS1)

Prepared & Analyzed: 16-May-23

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (3051631-BSD1)

Prepared & Analyzed: 16-May-23

Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	
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Batch 3051641 - 1:4 DI Water**Blank (3051641-BLK1)**

Prepared & Analyzed: 16-May-23

Chloride	ND	16.0	mg/kg							U
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LCS (3051641-BS1)

Prepared & Analyzed: 16-May-23

Chloride	416	16.0	mg/kg	400		104	80-120			
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3051641 - 1:4 DI Water**LCS Dup (3051641-BSD1)**

Prepared & Analyzed: 16-May-23

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Batch 3051642 - 1:4 DI Water**Blank (3051642-BLK1)**

Prepared & Analyzed: 16-May-23

Chloride	ND	16.0	mg/kg							U
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LCS (3051642-BS1)

Prepared & Analyzed: 16-May-23

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (3051642-BSD1)

Prepared & Analyzed: 16-May-23

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3051606 - Volatiles**Blank (3051606-BLK1)**

Prepared & Analyzed: 16-May-23

Benzene	ND	0.050	mg/kg							U
Toluene	ND	0.050	mg/kg							U
Ethylbenzene	ND	0.050	mg/kg							U
Total Xylenes	ND	0.150	mg/kg							U
Total BTEX	ND	0.300	mg/kg							U
Surrogate: 4-Bromofluorobenzene (PID)	0.0539		mg/kg	0.0500		108	71.5-134			

LCS (3051606-BS1)

Prepared & Analyzed: 16-May-23

Benzene	2.08	0.050	mg/kg	2.00		104	81.4-118			
Toluene	2.08	0.050	mg/kg	2.00		104	88.7-121			
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	86.1-120			
m,p-Xylene	4.34	0.100	mg/kg	4.00		109	88.2-124			
o-Xylene	2.15	0.050	mg/kg	2.00		108	84.9-118			
Total Xylenes	6.50	0.150	mg/kg	6.00		108	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.7	71.5-134			U

LCS Dup (3051606-BSD1)

Prepared & Analyzed: 16-May-23

Benzene	2.01	0.050	mg/kg	2.00		100	81.4-118	3.27	15.8	
Toluene	2.05	0.050	mg/kg	2.00		102	88.7-121	1.45	15.9	
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120	2.45	16	
m,p-Xylene	4.22	0.100	mg/kg	4.00		105	88.2-124	2.92	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	84.9-118	3.64	16.7	
Total Xylenes	6.30	0.150	mg/kg	6.00		105	87.3-122	3.16	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.1	71.5-134			U

Batch 3051607 - Volatiles**Blank (3051607-BLK1)**

Prepared & Analyzed: 16-May-23

Benzene	ND	0.050	mg/kg							U
Toluene	ND	0.050	mg/kg							U
Ethylbenzene	ND	0.050	mg/kg							U
Total Xylenes	ND	0.150	mg/kg							U

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3051607 - Volatiles**Blank (3051607-BLK1)**

Prepared & Analyzed: 16-May-23

Total BTEX	ND	0.300	mg/kg							U
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

LCS (3051607-BS1)

Prepared & Analyzed: 16-May-23

Benzene	2.05	0.050	mg/kg	2.00		102	81.4-118			
Toluene	2.11	0.050	mg/kg	2.00		106	88.7-121			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	86.1-120			
m,p-Xylene	4.38	0.100	mg/kg	4.00		109	88.2-124			
o-Xylene	2.04	0.050	mg/kg	2.00		102	84.9-118			
Total Xylenes	6.41	0.150	mg/kg	6.00		107	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	71.5-134			

LCS Dup (3051607-BS1)

Prepared & Analyzed: 16-May-23

Benzene	2.13	0.050	mg/kg	2.00		106	81.4-118	3.85	15.8	
Toluene	2.20	0.050	mg/kg	2.00		110	88.7-121	4.17	15.9	
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	86.1-120	3.03	16	
m,p-Xylene	4.55	0.100	mg/kg	4.00		114	88.2-124	3.92	16.2	
o-Xylene	2.15	0.050	mg/kg	2.00		107	84.9-118	5.34	16.7	
Total Xylenes	6.70	0.150	mg/kg	6.00		112	87.3-122	4.37	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	71.5-134			

Batch 3051608 - Volatiles**Blank (3051608-BLK1)**

Prepared & Analyzed: 16-May-23

Benzene	ND	0.050	mg/kg							U
Toluene	ND	0.050	mg/kg							U
Ethylbenzene	ND	0.050	mg/kg							U
Total Xylenes	ND	0.150	mg/kg							U
Total BTEX	ND	0.300	mg/kg							U
Surrogate: 4-Bromofluorobenzene (PID)	0.0533		mg/kg	0.0500		107	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3051608 - Volatiles**LCS (3051608-BS1)**

Prepared & Analyzed: 16-May-23

Benzene	2.28	0.050	mg/kg	2.00		114	81.4-118			
Toluene	2.34	0.050	mg/kg	2.00		117	88.7-121			
Ethylbenzene	2.47	0.050	mg/kg	2.00		123	86.1-120			BS-3
m,p-Xylene	4.92	0.100	mg/kg	4.00		123	88.2-124			
o-Xylene	2.38	0.050	mg/kg	2.00		119	84.9-118			BS-3
Total Xylenes	7.30	0.150	mg/kg	6.00		122	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500		105	71.5-134			

LCS Dup (3051608-BS1)

Prepared & Analyzed: 16-May-23

Benzene	2.20	0.050	mg/kg	2.00		110	81.4-118	3.60	15.8	
Toluene	2.25	0.050	mg/kg	2.00		112	88.7-121	4.15	15.9	
Ethylbenzene	2.36	0.050	mg/kg	2.00		118	86.1-120	4.48	16	
m,p-Xylene	4.70	0.100	mg/kg	4.00		118	88.2-124	4.56	16.2	
o-Xylene	2.27	0.050	mg/kg	2.00		114	84.9-118	4.71	16.7	
Total Xylenes	6.97	0.150	mg/kg	6.00		116	87.3-122	4.61	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.8	71.5-134			U

Batch 3051609 - Volatiles**Blank (3051609-BLK1)**

Prepared & Analyzed: 16-May-23

Benzene	ND	0.050	mg/kg							U
Toluene	ND	0.050	mg/kg							U
Ethylbenzene	ND	0.050	mg/kg							U
Total Xylenes	ND	0.150	mg/kg							U
Total BTEX	ND	0.300	mg/kg							U
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	71.5-134			

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Analytical Results For:

GHD SERVICES, INC.
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ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
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Reported:
18-May-23 13:16

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3051609 - Volatiles**LCS (3051609-BS1)**

Prepared & Analyzed: 16-May-23

Benzene	2.38	0.050	mg/kg	2.00		119	81.4-118			BS-3
Toluene	2.37	0.050	mg/kg	2.00		119	88.7-121			
Ethylbenzene	2.31	0.050	mg/kg	2.00		115	86.1-120			
m,p-Xylene	4.73	0.100	mg/kg	4.00		118	88.2-124			
o-Xylene	2.28	0.050	mg/kg	2.00		114	84.9-118			
Total Xylenes	7.01	0.150	mg/kg	6.00		117	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		99.0	71.5-134			U

LCS Dup (3051609-BSD1)

Prepared & Analyzed: 16-May-23

Benzene	2.24	0.050	mg/kg	2.00		112	81.4-118	6.10	15.8	
Toluene	2.23	0.050	mg/kg	2.00		111	88.7-121	6.29	15.9	
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	86.1-120	5.91	16	
m,p-Xylene	4.48	0.100	mg/kg	4.00		112	88.2-124	5.46	16.2	
o-Xylene	2.18	0.050	mg/kg	2.00		109	84.9-118	4.47	16.7	
Total Xylenes	6.66	0.150	mg/kg	6.00		111	87.3-122	5.14	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.5	71.5-134			U

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3051539 - General Prep - Organics**Blank (3051539-BLK1)**

Prepared: 15-May-23 Analyzed: 16-May-23

GRO C6-C10	ND	10.0	mg/kg							U
DRO >C10-C28	ND	10.0	mg/kg							U
EXT DRO >C28-C36	ND	10.0	mg/kg							U
Surrogate: 1-Chlorooctane	52.6		mg/kg	49.6		106	48.2-134			
Surrogate: 1-Chlorooctadecane	66.9		mg/kg	50.0		134	49.1-148			

LCS (3051539-BS1)

Prepared: 15-May-23 Analyzed: 16-May-23

GRO C6-C10	183	10.0	mg/kg	200		91.7	78.5-124			
DRO >C10-C28	203	10.0	mg/kg	200		102	72.5-126			
Total TPH C6-C28	387	10.0	mg/kg	400		96.7	77.6-123			
Surrogate: 1-Chlorooctane	56.0		mg/kg	49.6		113	48.2-134			
Surrogate: 1-Chlorooctadecane	66.9		mg/kg	50.0		134	49.1-148			

LCS Dup (3051539-BS1)

Prepared: 15-May-23 Analyzed: 17-May-23

GRO C6-C10	157	10.0	mg/kg	200		78.4	78.5-124	15.5	17.7	BS-3
DRO >C10-C28	176	10.0	mg/kg	200		88.0	72.5-126	14.4	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.2	77.6-123	14.9	18.5	
Surrogate: 1-Chlorooctane	46.6		mg/kg	49.6		94.0	48.2-134			
Surrogate: 1-Chlorooctadecane	57.0		mg/kg	50.0		114	49.1-148			

Batch 3051540 - General Prep - Organics**Blank (3051540-BLK1)**

Prepared: 15-May-23 Analyzed: 16-May-23

GRO C6-C10	ND	10.0	mg/kg							U
DRO >C10-C28	ND	10.0	mg/kg							U
EXT DRO >C28-C36	ND	10.0	mg/kg							U
Surrogate: 1-Chlorooctane	50.0		mg/kg	49.6		101	48.2-134			
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	49.1-148			

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Analytical Results For:

GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
Fax To:

Reported:
18-May-23 13:16

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3051540 - General Prep - Organics**LCS (3051540-BS1)**

Prepared: 15-May-23 Analyzed: 16-May-23

GRO C6-C10	204	10.0	mg/kg	200		102	78.5-124		
DRO >C10-C28	196	10.0	mg/kg	200		97.9	72.5-126		
Total TPH C6-C28	399	10.0	mg/kg	400		99.9	77.6-123		
Surrogate: 1-Chlorooctane	53.9		mg/kg	49.6		109	48.2-134		
Surrogate: 1-Chlorooctadecane	55.8		mg/kg	50.0		112	49.1-148		

LCS Dup (3051540-BS1)

Prepared: 15-May-23 Analyzed: 16-May-23

GRO C6-C10	205	10.0	mg/kg	200		102	78.5-124	0.527	17.7
DRO >C10-C28	180	10.0	mg/kg	200		90.2	72.5-126	8.19	21
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	77.6-123	3.65	18.5
Surrogate: 1-Chlorooctane	55.1		mg/kg	49.6		111	48.2-134		
Surrogate: 1-Chlorooctadecane	56.4		mg/kg	50.0		113	49.1-148		

Batch 3051541 - General Prep - Organics**Blank (3051541-BLK1)**

Prepared: 15-May-23 Analyzed: 16-May-23

GRO C6-C10	ND	10.0	mg/kg						U
DRO >C10-C28	ND	10.0	mg/kg						U
EXT DRO >C28-C36	ND	10.0	mg/kg						U
Surrogate: 1-Chlorooctane	57.1		mg/kg	49.6		115	48.2-134		
Surrogate: 1-Chlorooctadecane	64.6		mg/kg	50.0		129	49.1-148		

LCS (3051541-BS1)

Prepared: 15-May-23 Analyzed: 16-May-23

GRO C6-C10	206	10.0	mg/kg	200		103	78.5-124		
DRO >C10-C28	195	10.0	mg/kg	200		97.5	72.5-126		
Total TPH C6-C28	401	10.0	mg/kg	400		100	77.6-123		
Surrogate: 1-Chlorooctane	61.6		mg/kg	49.6		124	48.2-134		
Surrogate: 1-Chlorooctadecane	67.1		mg/kg	50.0		134	49.1-148		

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GHD SERVICES, INC.
6121 INDIAN SCHOOL RD, NE STE. 200
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE
Project Number: 12608422
Project Manager: NATE REECE
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Reported:
18-May-23 13:16

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3051541 - General Prep - Organics**LCS Dup (3051541-BSD1)**

Prepared: 15-May-23 Analyzed: 16-May-23

GRO C6-C10	209	10.0	mg/kg	200		105	78.5-124	1.51	17.7	
DRO >C10-C28	196	10.0	mg/kg	200		98.0	72.5-126	0.519	21	
Total TPH C6-C28	405	10.0	mg/kg	400		101	77.6-123	1.03	18.5	
Surrogate: 1-Chlorooctane	62.6		mg/kg	49.6		126	48.2-134			
Surrogate: 1-Chlorooctadecane	67.4		mg/kg	50.0		135	49.1-148			

Batch 3051544 - General Prep - Organics**Blank (3051544-BLK1)**

Prepared: 15-May-23 Analyzed: 16-May-23

GRO C6-C10	ND	10.0	mg/kg							U
DRO >C10-C28	ND	10.0	mg/kg							U
EXT DRO >C28-C36	ND	10.0	mg/kg							U
Surrogate: 1-Chlorooctane	50.9		mg/kg	49.6		103	48.2-134			
Surrogate: 1-Chlorooctadecane	58.3		mg/kg	50.0		117	49.1-148			

LCS (3051544-BS1)

Prepared: 15-May-23 Analyzed: 16-May-23

GRO C6-C10	220	10.0	mg/kg	200		110	78.5-124			
DRO >C10-C28	217	10.0	mg/kg	200		109	72.5-126			
Total TPH C6-C28	437	10.0	mg/kg	400		109	77.6-123			
Surrogate: 1-Chlorooctane	61.8		mg/kg	49.6		125	48.2-134			
Surrogate: 1-Chlorooctadecane	71.1		mg/kg	50.0		142	49.1-148			

LCS Dup (3051544-BSD1)

Prepared: 15-May-23 Analyzed: 16-May-23

GRO C6-C10	212	10.0	mg/kg	200		106	78.5-124	3.67	17.7	
DRO >C10-C28	209	10.0	mg/kg	200		105	72.5-126	3.65	21	
Total TPH C6-C28	421	10.0	mg/kg	400		105	77.6-123	3.66	18.5	
Surrogate: 1-Chlorooctane	57.1		mg/kg	49.6		115	48.2-134			
Surrogate: 1-Chlorooctadecane	65.9		mg/kg	50.0		132	49.1-148			

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Notes and Definitions

U	Analyte included in the analysis, but not detected
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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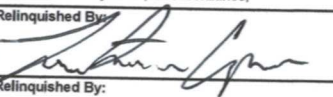
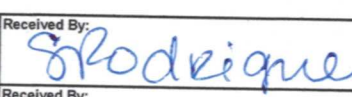
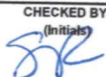
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Celey D. Keene, Lab Director/Quality Manager



Company Name: GHD		Project Manager: Nate Reece / JT Murrey		Address: 6121 Indian School Rd. NE St. 200		City: Albuquerque		State: NM		Zip: 87110		Phone #: (361)252-6136		Fax #:		Project #: 12608422		Project Owner: ETC Texas Pipeline, Ltd.		Project Name: M-4 Release		Project Location:		Sampler Name: Daniel Sparks	
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		G/RAB OR (COMP. # CONTAINERS)		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE/COOL		OTHER:	
DATE		TIME		BTX Modified 8021		TPH Modified 8015		Chloride Method 4500/Method 300																	
1 BH-1		C 1		X		X		X																	
2 BH-2		C 1		X		X		X																	
3 BH-3		C 1		X		X		X																	
4 BH-4		C 1		X		X		X																	
5 BH-5		C 1		X		X		X																	
6 BH-6		C 1		X		X		X																	
7 BH-7		C 1		X		X		X																	
8 BH-8		C 1		X		X		X																	
9 BH-9		C 1		X		X		X																	
10 BH-10		C 1		X		X		X																	

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Relinquished By: 	Date: 5-15-23 Time: 1249	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Date: 5/15/23 Time: 1425	Received By:	REMARKS:		
Delivered By: (Circle One) 4.40 C.O.W. 3.8 #113		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: 		

Please email results to: Dean Ericson, jt.murrey@ghd.com; nate.reece@ghd.com, daniel.sparks@ghd.com, Standard TAT

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



Company Name: GHD				BILL TO				ANALYSIS REQUEST																											
Project Manager: Nate Reece / JT Murrey																																			
Address: 6121 Indian School Rd. NE St. 200				P.O. #:				<div style="display: flex; justify-content: space-between; padding: 5px;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX Modified 8021</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH Modified 8015</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride Method 4500/Method 300</div> </div>																											
City: Albuquerque		State: NM		Zip: 87110		Compan: Energy Transfer																													
Phone #: (361)252-6136		Fax #:		Attn: Dean Ericson		Address:																													
Project #: 12608422		Project Owner: ETC Texas Pipeline, Ltd.		City:		State:																													
Project Name: M-4 Release				Zip:		Phone #:																													
Project Location:						Fax #:																													
Sampler Name: Daniel Sparks																																			
FOR LAB USE ONLY																																			
Lab I.D.				Sample I.D.																<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"># CONTAINERS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">GROUNDWATER</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">WASTEWATER</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SOIL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">OIL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SLUDGE</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">OTHER :</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">ACID/BASE:</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">ICE / COOL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">OTHER :</div> </div>				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">MATRIX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PRESERV.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SAMPLING</div> </div>				DATE				TIME			
11 BH-11				C 1								5/12/2023																							
12 BH-12				C 1				x				5/12/2023				X X X																			
13 BH-13				C 1				x				5/12/2023				X X X																			
14 BH-14				C 1				x				5/12/2023				X X X																			
15 BH-15				C 1				x				5/12/2023				X X X																			
16 BH-16				C 1				x				5/12/2023				X X X																			
17 BH-17				C 1				x				5/12/2023				X X X																			
18 BH-18				C 1				x				5/12/2023				X X X																			
19 BH-19				C 1				x				5/12/2023				X X X																			
20 BH-20				C 1				x				5/12/2023				X X X																			
				C 1				x				5/12/2023				X X X																			

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Relinquished By:		Date: 5-15-23		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 1249				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date: 5/15/23		Received By:		REMARKS: Please email results to: Dean Ericson, jtmurray@ghd.com; nate.reece@ghd.com, daniel.sparks@ghd.com, Standard TAT			
		Time: 1425							
Delivered By: (Circle One) 44-C-O-02 Sampler - UPS - Bus - Other: 38- #113						Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: 	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: GHD		BILL TO		ANALYSIS REQUEST												
Project Manager: Nate Reece / JT Murrey		P.O. #:		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX Modified 8021</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH Modified 8015</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride Method 4500/Method 300</div> </div>												
Address: 6121 Indian School Rd. NE St. 200		Compan: Energy Transfer														
City: Albuquerque	State: NM	Zip: 87110	Attn: Dean Ericson													
Phone #: (361)252-6136	Fax #:	Address:														
Project #: 12608422	Project Owner: ETC Texas Pipeline, Ltd.		City:													
Project Name: M-4 Release			State:													
Project Location:			Zip:													
Sampler Name: Daniel Sparks			Phone #:													
																Fax #:

FOR LAB USE ONLY																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX										PRESERV.	SAMPLING	DATE	TIME
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:					
H232416	BH-21	C 1			X									5/12/2023		
21	BH-22	C 1			X									5/12/2023		
22	BH-23	C 1			X									5/12/2023		
23	BH-24	C 1			X									5/12/2023		
24	BH-25	C 1			X									5/12/2023		
25	BH-26	C 1			X									5/12/2023		
26	BH-27	C 1			X									5/12/2023		
27	BH-28	C 1			X									5/12/2023		
28	BH-29	C 1			X									5/12/2023		
29	BH-30	C 1			X									5/12/2023		
30																

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Relinquished By:	Date: 5-15-23	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1251		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 5/15/23	Received By:	REMARKS:	
	Time: 1425		Please email results to: Dean Ericson, jt.murrey@ghd.com; nate.reece@ghd.com; daniel.sparks@ghd.com, Standard TAT	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4,400 C.O.W. 3,82 #113	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 		

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[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: GHD		BILL TO		ANALYSIS REQUEST													
Project Manager: Nate Reece / JT Murrey		P.O. #:		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX Modified 8021</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH Modified 8015</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride Method 4500/Method 300</div> </div>													
Address: 6121 Indian School Rd. NE St. 200		Compan: Energy Transfer															
City: Albuquerque	State: NM	Zip: 87110	Attn: Dean Ericson														
Phone #: (361)252-6136	Fax #:	Address:															
Project #: 12608422	Project Owner: ETC Texas Pipeline, Ltd.	City:															
Project Name: M-4 Release	State:	Zip:															
Project Location:	Phone #:																
Sampler Name: Daniel Sparks	Fax #:																
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	MATRIX	PRESERV.													SAMPLING	
		GROUNDWATER															
		WASTEWATER															
		SOIL															
		OIL															
		SLUDGE															
		OTHER:															
		ACID/BASE:															
		ICE/COOL															
		OTHER:															
		DATE		TIME													
H23 2416																	
41	SW-8	C 1			5/12/2023												
42	SW-9	C 1			5/12/2023												
43	SW-10	C 1			5/12/2023												
44	SW-11	C 1			5/12/2023												
45	SW-12	C 1			5/12/2023												
46	SW-13	C 1			5/12/2023												
47	SW-14	C 1			5/12/2023												
48	SW-15	C 1			5/12/2023												
49	SW-16	C 1			5/12/2023												
50	SW-17	C 1			5/12/2023												

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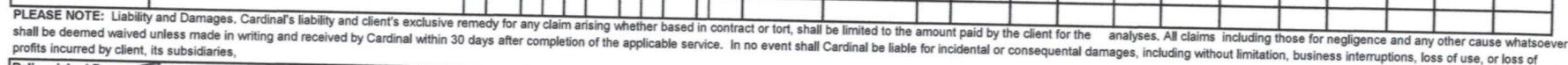
Relinquished By:	Date: 5-15-23	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1251		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 5/15/23	Received By:	REMARKS:	
	Time: 1425		Please email results to: Dean Ericson, jt.murrey@ghd.com; nate.reece@ghd.com; daniel.sparks@ghd.com, Standard TAT	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.4: C-O-U:	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 882		
3.8-#113				

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



Company Name:				GHD	BILL TO				ANALYSIS REQUEST												
Project Manager:				Nate Reece / JT Murrey	P.O. #:																
Address:				6121 Indian School Rd. NE St. 200	Compan :				Energy Transfer												
City:		Albuquerque	State:		NM	Zip:		87110	Attn:				Dean Ericson								
Phone #:		(361)252-6136	Fax #:			Address:															
Project #:		12608422	Project Owner:		ETC Texas Pipeline, Ltd.	City:															
Project Name:		M-4 Release	State:				Zip:														
Project Location:				Phone #:																	
Sampler Name:				Daniel Sparks	Fax #:																
FOR LAB USE ONLY																					
Lab I.D.																					
Sample I.D.																					
# CONTAINERS MATRIX PRESERV. SAMPLING																					
GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE ICE / COOL OTHER :																					
DATE TIME																					
HZ32416	SW-18	C	I		X							5/12/2023		X	X	X					
51	SW-19	C	I		x							5/12/2023		X	X	X					
52	SW-20	C	I		x							5/12/2023		X	X	X					
53	SW-21	C	I		x							5/12/2023		X	X	X					
54	SW-22	C	I		x							5/12/2023		X	X	X					
55	SW-23	C	I		x							5/12/2023		X	X	X					
56	SW-24	C	I		x							5/12/2023		X	X	X					
57	SW-25	C	I		x							5/12/2023		X	X	X					
58	SW-26	C	I		x							5/12/2023		X	X	X					
59	SW-27	C	I		x							5/12/2023		X	X	X					
60	SW-27	C	I		x							5/12/2023		X	X	X					
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Relinquished By:				Date: 5-15-23 Time: 1252	Received By:				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Phone #: Add'l Fax #:								
Delivered By:				Date: 5/15/23 Time: 1425	Received By:				REMARKS: Please email results to: Dean.Ericson@ghd.com;nate.murray@ghd.com;nate.reece@ghd.com;daniel.sparks@ghd.com, Standard TAT												
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool Intact <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not <input type="checkbox"/> No				CHECKED BY: (Initials) SK													

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 15, 2023

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: M - 4

Enclosed are the results of analyses for samples received by the laboratory on 06/12/23 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: M - 4
 Project Number: 32.3824-103.203046
 Project Location: NEW MEXICO

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 1 A (H232999-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73	
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26	
Total BTEx	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	158	78.8	200	26.6	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	166	83.2	200	24.2	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 06/12/2023
Reported: 06/15/2023
Project Name: M - 4
Project Number: 32.3824-103.203046
Project Location: NEW MEXICO

Sampling Date: 06/12/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 7 A (H232999-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73		
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26		
Total BTEx	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/13/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	158	78.8	200	26.6	
DRO >C10-C28*	15.9	10.0	06/13/2023	ND	166	83.2	200	24.2	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: M - 4
 Project Number: 32.3824-103.203046
 Project Location: NEW MEXICO

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 11 A (H232999-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73		
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26		
Total BTEx	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/13/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 06/12/2023
Reported: 06/15/2023
Project Name: M - 4
Project Number: 32.3824-103.203046
Project Location: NEW MEXICO

Sampling Date: 06/12/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 13 A (H232999-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73		
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26		
Total BTEx	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/13/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: M - 4
 Project Number: 32.3824-103.203046
 Project Location: NEW MEXICO

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 15 A (H232999-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73		
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26		
Total BTEX	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 06/12/2023
Reported: 06/15/2023
Project Name: M - 4
Project Number: 32.3824-103.203046
Project Location: NEW MEXICO

Sampling Date: 06/12/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 21 A (H232999-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73		
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26		
Total BTEx	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 06/12/2023
Reported: 06/15/2023
Project Name: M - 4
Project Number: 32.3824-103.203046
Project Location: NEW MEXICO

Sampling Date: 06/12/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 23 A (H232999-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	QR-03
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	QR-03
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	QR-03
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEx	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 06/12/2023
Reported: 06/15/2023
Project Name: M - 4
Project Number: 32.3824-103.203046
Project Location: NEW MEXICO

Sampling Date: 06/12/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 1 A (H232999-08)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70		
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305		
Total BTX	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/13/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: M - 4
 Project Number: 32.3824-103.203046
 Project Location: NEW MEXICO

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 A (H232999-09)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70		
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305		
Total BTX	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 06/12/2023
Reported: 06/15/2023
Project Name: M - 4
Project Number: 32.3824-103.203046
Project Location: NEW MEXICO

Sampling Date: 06/12/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 4 A (H232999-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEx	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	31.1	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	10.5	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: M - 4
 Project Number: 32.3824-103.203046
 Project Location: NEW MEXICO

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 A (H232999-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/13/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	10.4	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: M - 4
 Project Number: 32.3824-103.203046
 Project Location: NEW MEXICO

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 8 A (H232999-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70		
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305		
Total BTEX	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: M - 4
 Project Number: 32.3824-103.203046
 Project Location: NEW MEXICO

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 15 A (H232999-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70		
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305		
Total BTEx	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: M - 4
 Project Number: 32.3824-103.203046
 Project Location: NEW MEXICO

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 21 A (H232999-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70		
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305		
Total BTEx	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: M - 4
 Project Number: 32.3824-103.203046
 Project Location: NEW MEXICO

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 22 A (H232999-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70		
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305		
Total BTEx	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	32.3	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: M - 4
 Project Number: 32.3824-103.203046
 Project Location: NEW MEXICO

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 28 A (H232999-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70		
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305		
Total BTEx	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	32.9	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

Received: 06/12/2023
 Reported: 06/15/2023
 Project Name: M - 4
 Project Number: 32.3824-103.203046
 Project Location: NEW MEXICO

Sampling Date: 06/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 29 A (H232999-17)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/13/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ETC		BILL TO		ANALYSIS REQUEST													
Project Manager: Dean Ericson		P.O. #:															
Address:		Company:															
City: State: Zip:		Attn:															
Phone #: Fax #:		Address:															
Project #: Project Owner:		City:															
Project Name: M-4		State: Zip:															
Project Location: 32.3824 -103.203046		Phone #:															
Sampler Name: Tyler B.		Fax #:															
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX				PRESERV.	SAMPLING								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CL	TPH EXT	BTCP
H232999																	
1	BH-1A												6/12/23	10:05am			
2	BH-7A													10:15am			
3	BH-11A													10:19am			
4	BH-13A													10:23am			
5	BH-15A													10:31am			
6	BH-21A													10:40am			
7	BH-23A													10:46am			
8	SW-1A													10:55am			
9	SW-2A													11:01am			
10	SW-4A													11:09am			

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Relinquished By:	Date: 6/12/23 Time: 2:10pm	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
	Time:		REMARKS: NM
Delivered By: (Circle One)	Observed Temp. °C 1.1	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C 0.5	Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Bacteria (only) Sample Condition <input type="checkbox"/> Yes <input type="checkbox"/> No
		CHECKED BY:	Thermometer ID #113 Correction Factor -0.6°C
			Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 07/18/22

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>ETC</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Dean Ericson</u>				P.O. #:															
Address:				Company:															
City: State: Zip:				Attn:															
Phone #: Fax #:				Address:															
Project #: Project Owner:				City:															
Project Name: <u>M-4</u>				State: Zip:															
Project Location: <u>32.3824 -103.203046</u>				Phone #:															
Sampler Name: <u>Tyler B.</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING							
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:					
				ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME							
<u>H232999</u>				<u>C</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>6/12/23</u>		<u>11:20am</u>					
<u>11 SW-7A</u>				<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>11:29am</u>		<u>1</u>					
<u>12 SW-8A</u>				<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>11:36am</u>		<u>1</u>					
<u>13 SW-15A</u>				<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>11:45am</u>		<u>1</u>					
<u>14 SW-21A</u>				<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>11:52am</u>		<u>1</u>					
<u>15 SW-22A</u>				<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>12:05pm</u>		<u>1</u>					
<u>16 SW-28A</u>				<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>12:10pm</u>		<u>1</u>					
<u>17 SW-29A</u>				<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>									

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Relinquished By:		Date: <u>6/12/23</u>	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>2:10pm</u>		Time: <u>2:10pm</u>		All Results are emailed. Please provide Email address:		
Relinquished By:		Date:	Received By:		REMARKS:	
Time:						
Delivered By: (Circle One)		Observed Temp. °C <u>11</u>	Sample Condition		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>NM</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>0.5</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Bacteria (only) Sample Condition	
			CHECKED BY: (Initials) <u>TO</u>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
					Thermometer ID #113	
					Correction Factor -0.6°C	
					Observed Temp. °C	
					Corrected Temp. °C	

FORM-006 R 3.3 07/16/22

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Attachment C Photographic Log



View of excavation facing west.



View of excavation facing east.



Site Photograph

ETCTP M-4 Release Site.

GHD | Report for ETCTP | 12608422



View of western end of excavation facing northwest.



View of western end of excavation facing northeast.



Site Photograph

ETCTP M-4 Release Site.

GHD | Report for ETCTP | 12608422



Aerial view of excavation facing east.



Aerial view of excavation facing north.



Site Photograph
ETCTP M-4 Release Site.

GHD | Report for ETCTP | 12608422

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 240406

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 240406
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	10/5/2023