

Remediation Summary & Soil Closure Request

Permian Resources Outland 14-23 State 2BS 2H

Lea County, New Mexico
Unit Letter D, Section 14, Township 21 South, Range 34 East
Latitude 32.486037 North, Longitude 103.445132 West
NMOCD Reference No. NOY1831140454 (1RP-5260)

Prepared By:

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Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Permian Resources, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Outland 14-23 State 2BS 2H (henceforth, "Site"). On or around November 19, 2019, while the facility was owned by an alternative operator, a *Workplan* was prepared and submitted to the New Mexico Oil Conservation Division (NMOCD) proposing remediation activities designed to advance the Site toward an approved closure; the *Workplan* was subsequently approved. Based on field observations made during the remediation of a more recent release (nAPP2328345879) and lack of environmental records, it is inferred historical remediation activities were not conducted. Impacts related to nOY1831140454 and nAPP2328345879 were remediated concurrently. Details of the release are summarized below:

Location of Release Source				
Latitude: <u>32.486037</u>		Longitude: <u>-103.445132</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>Outland 14-23 State 2BS 2H</u>		Site Type: <u>Tank Battery</u>		
Date Release Discovered: <u>10/21/2018</u>		API # (if applicable): <u>30-025-44157</u>		
Unit Letter	Section	Township	Range	County
D	14	21S	34E	Lea
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)				
Nature and Volume of Release				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)	0	Volume Recovered (bbls)	0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	30	Volume Recovered (bbls)	10
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	
Cause of Release: The release was attributed to equipment failure.				
Initial Response				
<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"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices				
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

Previously submitted portions of the NMOCD Form C-141 are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 75 and 100 (ft.)
What method was used to determine the depth to groundwater?	NM OSE iWaters Database Search
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution or church?	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	
Any other fresh water well or spring?	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Greater than 5 (mi.)
A wetland?	Between 1 and 5 (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Greater than 5 (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater and NMOCD siting information is provided as Appendix A.

Additional NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4 and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
Between 75 and 100 (ft.)	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	10,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

** Environmental Protection Agency

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
On what estimated date will (or did) the remediation commence?	12/1/2023	
On what date will (or did) the final sampling or liner inspection occur?	10/16/2024	
On what date will (or was) the remediation complete(d)?	10/29/2024	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	25,700	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	3,398	
What was the total surface area (sq. ft.) that has or will be remediated?	25,700	
What was the total volume (cy) that has or will be remediated?	6,280	
This remediation utilized the following processes to remediate/reduce contaminants:		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes/Fertilizer, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	Lea Land, Inc.	
NMOCD Disposal Facility ID?	FEEM0112342028	
Summarize any additional remediation activities not included by answers above.	See below	

Between December 1, 2023, and June 3, 2024, remediation activities were conducted at the Site by an alternative environmental contractor. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and temporarily stockpiled on-site, then transferred to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	20,400	SW-52	4/12/2024	5-6	Excavated/Disposed
TPH	1,260	SW-36	12/15/2023	0-3	Excavated/Disposed
GRO+DRO	1,260	SW-36	12/15/2023	0-3	Excavated/Disposed
BTEX	2.49	CS-60	12/15/2023	3	Excavated/Disposed
Benzene	<Method Detection Limit	All submitted samples	All dates	All Depths	N/A

Please reference Table 1 for additional information.

On June 21, 2024, Etech assumed remediation responsibilities at the Site. Once remediation resumed, impacted material affected above the NMOCD Closure Criteria remaining in-situ was excavated and temporarily stockpiled on-site, then transferred to an NMOCD-permitted surface waste facility for disposal. Between December 1, 2023, and October 16, 2024, two hundred and sixty-five (265) confirmation soil samples were collected from the floor and sidewalls of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Impacted areas characterized by soil samples exhibiting BTEX, TPH, and/or chloride concentrations above the applicable NMOCD Closure Criteria were excavated and resampled, as necessary.

Equipment on at the Site made further remediation impossible. Once the equipment had been removed, sidewall soil samples that were previously established for deferral purposes (SW10, SW12A, SW21, SW22, SW46, SW53, SW54, SW60) were advanced. The soils that represented these sidewalls were excavated and taken to an NMOCD surface waste facility.

The final dimensions of the excavated area were approximately two hundred and thirty (230) feet in length, fifty-five (55) to one hundred and thirty five (135) feet in width, and one (1) to twenty-nine (29) feet in depth. During the course of remediation activities, approximately six-thousand two hundred eighty (6,280) cubic yards of impacted soil were transported to an NMOCD-permitted surface waste facility for disposal. An equal amount of locally sourced, non-impacted material was imported to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the site are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

5.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	25,700	
What was the total volume (cy) remediated?	6,280	

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Permian Resources provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request remediation closure approval be granted to the Site.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a reclamation approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	25,700	
What was the total volume (in cubic yards) reclaimed?	3,398	

On September 4, 2024, in accordance with the NMOCD requirements, a 5-point composite soil sample (Merchant Outland Pit) was collected from the imported material stockpiled on-site to be utilized as backfill. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations in the soil sample were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards and confirmed that the material was acceptable for use as backfill.

Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

The release was limited to the production pad of an active facility and did not impact the adjacent pasture. Final reclamation will be conducted in accordance with the NMSLO requirements upon decommissioning and abandonment of the facility.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Permian Resources. Use of the information contained in this report is prohibited without the consent of Etech and/or Permian Resources.

8.0 DISTRIBUTION

Permian Resources

*300 N. Marienfeld St. Suite 100
Midland, TX 79701*

New Mexico Energy, Minerals and Natural Resources Department

*Oil Conservation Division, District 1
1220 South St. Francis Drive
Santa Fe, NM 87505*

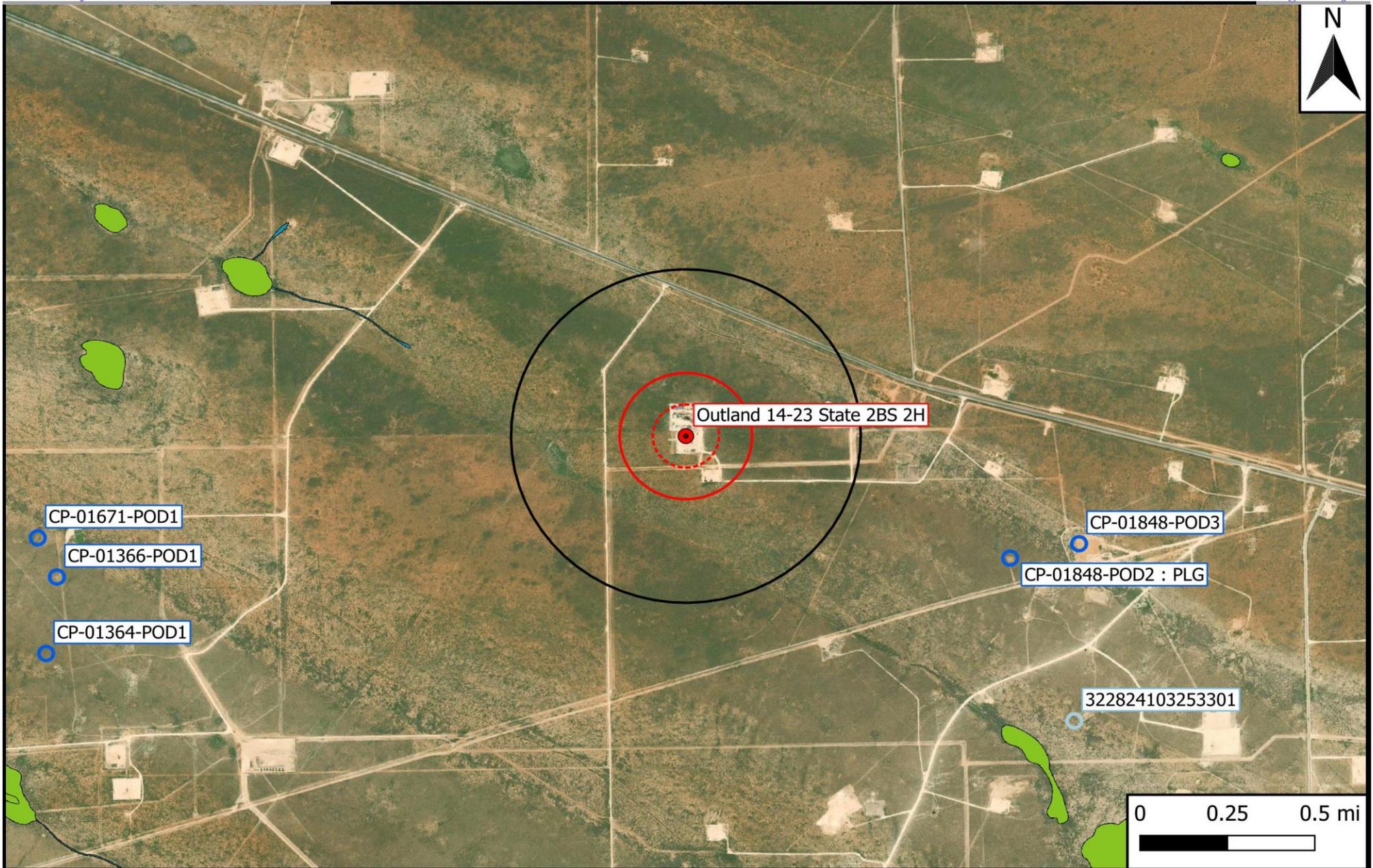
Hobbs Field Office

*New Mexico State Land Office
2827 North Dal Paso Street
Suite 117
Hobbs, NM 88240*

(Electronic Submission)

Figure 1 Topographic Map

Figure 2 Aerial Proximity Map



Legend	
●	Site Location
○	Well - NMOSE
○	Well - USGS
—	Potash Mine Workings
■	Medium/High Karst
	500 Ft Radius
	1000 Ft Radius
	0.5 Mi Radius
	1% Annual Flood Chance
	Lake/Freshwater Pond
	Emergent/Forested Wetlands
	Riverine

Figure 2
 Aerial Proximity Map
 Permian Resources
 Outland 14-23 State 2BS 2H
 GPS: 32.486037, -103.445132
 Lea County

Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/21/24

Figure 3 Sample Location Map

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Permian Resources Outland 14-23 State 2BS 2H NMOCD Ref. #: NOY1831140454 (1RP-5260)											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
CS-1	12/1/2023	1	In-Situ	<0.050	<0.300	<10.0	25.5	25.5	<10.0	25.5	272
CS-2	12/1/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-3	12/1/2023	1	In-Situ	<0.050	<0.300	<10.0	45.0	45.0	<10.0	45.0	544
CS-4	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
CS-5	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-6	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS-7	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-8	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-9	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-10	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-11	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	14.0	14.0	<10.0	14.0	240
CS-12	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-13	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS-14	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-15	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS-16	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-17	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS-18	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
CS-19	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	36.8	36.8	<10.0	36.8	528
CS-20	12/1/2023	3	Excavated	<0.050	<0.300	<10.0	191	191	<10.0	191	272
CS-20A	4/12/2024	5	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	129
CS-21	12/1/2023	3	Excavated	<0.050	<0.300	<10.0	304	304	<10.0	304	448
CS-21A	4/12/2024	5	In-Situ	<0.00200	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	161
CS-22	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	21.1	21.1	<10.0	21.1	352
CS-23	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
CS-24	12/1/2023	3	Excavated	<0.050	<0.300	<10.0	19.8	19.8	<10.0	19.8	768
CS-24A	4/12/2024	5	Excavated	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	930
CS - 24B @ 5'	10/14/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
CS-25	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	31.6	31.6	<10.0	31.6	224
CS-26	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	17.7	17.7	<10.0	17.7	128
CS-27	12/1/2023	3	In-Situ	<0.050	<0.300	<10.0	10.3	10.3	<10.0	10.3	64.0
CS-28	12/1/2023	3	Excavated	<0.050	<0.300	<10.0	241	241	68.1	309	4,640
CS-28A	4/12/2024	6	Excavated	<0.00200	<0.00399	<49.7	58.2	58.2	<49.7	58.2	14,200
CS 28 A @ 12'	10/16/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
CS-29	12/1/2023	3	Excavated	<0.050	<0.300	<10.0	26.4	26.4	<10.0	26.4	2,200
CS-29A	4/12/2024	6	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	626
CS 29 A @ 12'	10/16/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
CS-30	12/4/2023	4	In-Situ	<0.050	<0.300	<10.0	10.3	10.3	<10.0	10.3	304
CS-31	12/4/2023	4	In-Situ	<0.050	<0.300	<10.0	11.4	11.4	<10.0	11.4	528
CS-32	12/4/2023	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
CS-33	12/4/2023	6	Excavated	<0.050	<0.300	<10.0	22.3	22.3	<10.0	22.3	2,840

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Permian Resources
Outland 14-23 State 2BS 2H
NMOCD Ref. #: NOY1831140454 (1RP-5260)

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
CS-33A	4/12/2024	9	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	313
CS-34	12/4/2023	6	Excavated	<0.050	<0.300	<10.0	770	770	<10.0	770	1,260
CS-34A	4/12/2024	9	In-Situ	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	259
CS-35	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	16.0	16.0	<10.0	16.0	160
CS-36	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
CS-37	12/4/2023	9	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,440
CS-37A	4/12/2024	12	In-Situ	<0.00202	<0.00403	<50.3	<50.3	<50.3	<50.3	<50.3	279
CS-38	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	16.0	16.0	<10.0	16.0	560
CS-39	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-40	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	32.4	32.4	<10.0	32.4	288
CS-41	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	51.9	51.9	<10.0	51.9	240
CS-42	12/4/2023	9	Excavated	<0.050	<0.300	<10.0	181	181	<10.0	181	448
CS-42A	4/12/2024	10	In-Situ	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	304
CS-43	12/4/2023	9	Excavated	<0.050	<0.300	<10.0	135	135	<10.0	135	496
CS-43A	4/12/2024	10	Excavated	<0.00202	<0.00404	<50.4	171	171	<50.4	171	374
CS 43 B @ 10'	8/27/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
CS-44	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
CS-45	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-46	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	85.6	85.6	<10.0	85.6	496
CS-47	12/4/2023	9	Excavated	<0.050	<0.300	<10.0	102	102	<10.0	102	688
CS-47A	4/12/2024	10	Excavated	<0.00200	<0.00399	<50.1	216	216	<50.1	216	137
CS 47 B @ 7'	8/27/2024	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
CS-48	12/4/2023	9	In-Situ	<0.050	<0.300	<10.0	87.6	87.6	<10.0	87.6	416
CS-49	12/4/2023	9	Excavated	<0.050	<0.300	<10.0	170	170	<10.0	170	944
CS-49A	4/12/2024	10	In-Situ	<0.00198	<0.00396	<50.5	74.9	74.9	<50.5	74.9	208
CS-50	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-51	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	27.3	27.3	<10.0	27.3	400
CS-52	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	16.9	16.9	<10.0	16.9	368
CS-53	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	64.1	64.1	<10.0	64.1	112
CS-54	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	28.9	28.9	<10.0	28.9	64.0
CS-55	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-56	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	70.8	70.8	<10.0	70.8	80.0
CS-57	12/15/2023	3	Excavated	<0.050	<0.300	<10.0	114	114	<10.0	114	32.0
CS-57A	4/12/2024	4	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	237
CS-58	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	22.5	22.5	<10.0	22.5	48.0
CS-59	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	41.8	41.8	<10.0	41.8	48.0
CS-60	12/15/2023	3	Excavated	<0.050	2.49	<10.0	695	695	62.0	757	112
CS-60A	4/12/2024	5	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	477
CS-61	12/15/2023	3	Excavated	<0.050	<0.300	<10.0	112	112	<10.0	122	80.0
CS-61A	4/12/2024	5	Excavated	<0.00201	<0.00402	<49.8	753	753	<49.8	753	481
CS 61 B @ 6'	8/26/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Permian Resources Outland 14-23 State 2BS 2H NMOCD Ref. #: NOY1831140454 (1RP-5260)											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
CS-62	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	16.0	16.0	<10.0	16.0	288
CS-63	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	82.9	82.9	<10.0	82.9	144
CS-64	12/15/2023	3	Excavated	<0.050	<0.300	<10.0	242	242	<10.0	242	96.0
CS-64A	4/12/2024	4	In-Situ	<0.00200	<0.00401	<50.3	50.8	50.8	<50.3	50.8	150
CS-65	12/15/2023	3	Excavated	<0.050	<0.300	<10.0	111	111	<10.0	111	32.0
CS-65A	4/12/2024	5	In-Situ	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	102
CS-66	12/15/2023	3	Excavated	<0.050	<0.300	<10.0	183	183	<10.0	183	320
CS-66A	4/12/2024	5	In-Situ	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	69.1
CS-67	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	21.2	21.2	<10.0	21.2	<16.0
CS-68	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	43.7	43.7	<10.0	43.7	400
CS-69	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	79.8	79.8	<10.0	79.8	144
CS-70	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-71	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-72	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-73	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-74	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-75	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-76	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-77	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-78	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
CS-79	12/15/2023	5	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
CS-79A	4/12/2024	6	Excavated	<0.00198	<0.00396	<50.5	74.3	74.3	<50.5	74.3	7,240
CS 79 B @ 11'	8/28/2024	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
CS-80	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-81	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-82	12/15/2023	5	Excavated	<0.050	<0.300	<10.0	22.8	22.8	<10.0	22.8	1,260
CS-82A	4/12/2024	9	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,510
CS 82 B @ 10'	8/27/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
CS-83	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-84	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-85	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS-86	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-87	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-88	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-89	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-90	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
CS-91	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
CS-92	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-93	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-94	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS-95	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Permian Resources
Outland 14-23 State 2BS 2H
NMOCD Ref. #: NOY1831140454 (1RP-5260)

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
CS-96	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-97	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-98	12/15/2023	2	Excavated	<0.050	<0.300	<10.0	92.7	92.7	20.5	113	3,440
CS-98A	4/12/2024	5	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3,370
CS - 98A @ 13'	10/14/2024	13	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
CS-99	12/15/2023	2	Excavated	<0.050	<0.300	<10.0	44.1	44.1	<10.0	44.1	1,920
CS-99A	4/12/2024	5	Excavated	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	2,810
CS - 99A @ 12'	10/14/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
CS-100	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-101	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-102	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-103	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-104	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	16.5	16.5	<10.0	16.5	128
CS-105	12/15/2023	15	Excavated	<0.050	<0.300	<10.0	32.4	32.4	<10.0	32.4	3,040
CS 105 @ 29'	10/16/2024	29	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
CS-106	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS-107	4/12/2024	5	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	52.7
CS-108	4/12/2024	3	Excavated	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	617
CS - 108 @ 2'	10/14/2024	2	In-Situ	<0.050	<0.300	<10.0	13.8	13.8	<10.0	13.8	272
CS-109	4/12/2024	9	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	196
CS-110	4/12/2024	5	In-Situ	<0.00200	<0.00400	<50.2	<50.2	<50.2	<50.2	<50.2	185
CS 111 @ 12'	10/14/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
CS 112 @ 13'	10/14/2024	13	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
CS 113 @ 12'	10/14/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
CS 114 @ 12'	10/14/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
CS 115 @ 12'	10/16/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
CS 116 @ 12'	10/16/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 1 @ 10'	8/26/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
NW1	8/26/2024	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW-1	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-2	12/15/2023	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
SW-3	12/15/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-4	12/15/2023	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW-5	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-6	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	13.4	13.4	<10.0	13.4	16.0
SW-7	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-8	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SW-9	12/15/2023	0-2	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,700
SW-9A	4/12/2024	0-5	In-Situ	<0.00200	<0.00400	<50.3	<50.3	<50.3	<50.3	<50.3	104
SW-10	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,790
SW-11	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Permian Resources
Outland 14-23 State 2BS 2H
NMOCD Ref. #: NOY1831140454 (1RP-5260)

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SW-12	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	308	308	66.8	375	384
SW-12A	4/12/2024	0-6	Excavated	<0.00200	<0.00401	<50.1	239	239	<50.1	239	7,590
SW-13	12/15/2023	6-9	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	784
SW-13A	4/12/2024	6-9	Excavated	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	2,890
SW-13B	10/16/2024	6-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW-14	12/15/2023	6-9	Excavated	<0.050	<0.300	<10.0	35.8	35.8	<10.0	35.8	1,280
SW-14A	4/12/2024	9-12	Excavated	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	1,340
SW-14B	10/16/2024	9-12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW-15	12/15/2023	3-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-16	12/15/2023	3-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW-17	12/15/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-18	12/15/2023	3-4	Excavated	<0.050	<0.300	<10.0	153	153	38.1	191	656
SW-18A	4/12/2024	3-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	242
SW-19	12/15/2023	0-4	In-Situ	<0.050	<0.300	<10.0	12.7	12.7	<10.0	12.7	448
SW-20	12/15/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW-21	12/15/2023	2-5	Excavated	<0.050	<0.300	<10.0	169	169	25.3	194	1,360
SW-22	12/15/2023	0-5	Excavated	<0.050	<0.300	<10.0	112	112	18.9	131	13,000
SW-23	12/15/2023	0-5	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,960
SW-23A	4/12/2024	0-5	In-Situ	<0.903	<1.80	<49.9	<49.9	<49.9	<49.9	<49.9	135
SW-24	12/15/2023	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SW-25	12/15/2023	3-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-26	12/15/2023	5-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-27	12/15/2023	3-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-28	12/15/2023	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-29	12/15/2023	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-30	12/15/2023	0-6	Excavated	<0.050	<0.300	<10.0	167	167	11.6	179	208
SW-30A	4/12/2024	0-9	In-Situ	<0.909	<1.82	<50.1	<50.1	<50.1	<50.1	<50.1	195
SW-31	12/15/2023	0-9	Excavated	<0.050	<0.300	<10.0	239	239	<10.0	239	240
SW-31A	4/12/2024	0-9	In-Situ	<0.909	<1.82	<50.4	<50.4	<50.4	<50.4	<50.4	486
SW-32	12/15/2023	0-6	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,070
SW-32A	4/12/2024	0-6	Excavated	<0.902	<1.80	<50.5	75.8	75.8	<50.5	75.8	3,590
SW - 32 B	10/14/2024	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
SW-33	12/15/2023	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-34	12/15/2023	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
SW-35	12/15/2023	3-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-36	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	1,260	1,260	<10.0	1,260	304
SW-36A	4/12/2024	0-3	Excavated	<0.905	<1.81	<49.8	281	281	<49.8	281	772
SW 36 B	8/28/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW-37	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	114	114	<10.0	114	288
SW-37A	4/12/2024	0-3	Excavated	<0.913	<1.83	<50.0	513	513	<50.0	513	118
SW 37 B	8/28/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Permian Resources Outland 14-23 State 2BS 2H NMOCD Ref. #: NOY1831140454 (1RP-5260)											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SW-38	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	291	291	<10.0	291	272
SW-38A	4/12/2024	0-3	Excavated	<0.916	<1.83	<49.9	<49.9	<49.9	<49.9	<49.9	1,020
SW 38 E	8/26/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW-39	12/15/2023	0-3	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,150
SW-39A	4/12/2024	0-5	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	255
SW-40	12/15/2023	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-41	12/15/2023	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-42	12/15/2023	3-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-43	12/15/2023	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-44	12/15/2023	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-45	12/15/2023	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-46	12/15/2023	0-5	Excavated	<0.050	<0.300	<10.0	81.1	81.1	21.0	102	480
SW-47	4/12/2024	0-10	Excavated	<0.00200	<0.00401	<50.1	96.4	96.4	<50.1	96.4	712
SW 47 B	8/26/2024	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SW-48	4/12/2024	3-4	In-Situ	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	576
SW-49	4/12/2024	3-4	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	217
SW-50	4/12/2024	3-5	In-Situ	<0.00200	<0.00399	<49.8	84.1	84.1	<49.8	84.1	293
SW-51	4/12/2024	5-9	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5,760
SW-52	4/12/2024	5-6	Excavated	<0.907	<1.81	<50.0	408	408	<50.0	408	20,400
SW 52 A	8/27/2024	5-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
SW-53	4/12/2024	0-5	Excavated	<0.902	<1.80	<50.1	137	137	<50.1	137	3,660
SW-54	4/12/2024	3-6	Excavated	<0.909	<1.82	<50.4	58.6	58.6	<50.4	58.6	13,300
SW-54B	10/16/2024	3-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW-55	4/12/2024	3-5	Excavated	<0.909	<1.82	<50.4	<50.4	<50.4	<50.4	<50.4	2,370
SW-55B	10/16/2024	3-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
SW-56	4/12/2024	3-9	In-Situ	<0.902	<1.80	<50.3	<50.3	<50.3	<50.3	<50.3	65.9
SW-57	4/12/2024	9-10	In-Situ	<0.905	<1.81	<49.7	<49.7	<49.7	<49.7	<49.7	405
SW-58	4/12/2024	4-10	In-Situ	<0.913	<1.83	<49.6	<49.6	<49.6	<49.6	<49.6	51.4
SW-59	4/12/2024	10-12	In-Situ	<0.916	<1.83	<50.0	<50.0	<50.0	<50.0	<50.0	388
SW-60	4/12/2024	9-10	Excavated	<0.900	<1.80	<50.4	243	243	<50.4	243	1,010
SW-61	4/12/2024	0-10	Excavated	<0.00200	<0.00399	<49.6	101	101	<49.6	101	570
SW 61 B	8/29/2024	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-62	4/12/2024	6-9	Excavated	<0.00202	<0.00403	<50.2	60.0	60.0	<50.2	60.0	3,440
SW-62B	10/16/2024	6-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
SW-63	4/12/2024	3-9	Excavated	<0.00200	<0.00401	<49.7	65.5	65.5	<49.7	65.5	2,440
SW-63B	10/16/2024	3-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
SW-64	4/12/2024	5-6	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	42.0
SW-65	4/12/2024	5-6	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	139
TP-1	12/15/2023	0	Excavated	<0.050	<0.300	<10.0	42.3	42.3	<10.0	42.3	1,120
TP-1	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
TP-1	12/15/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

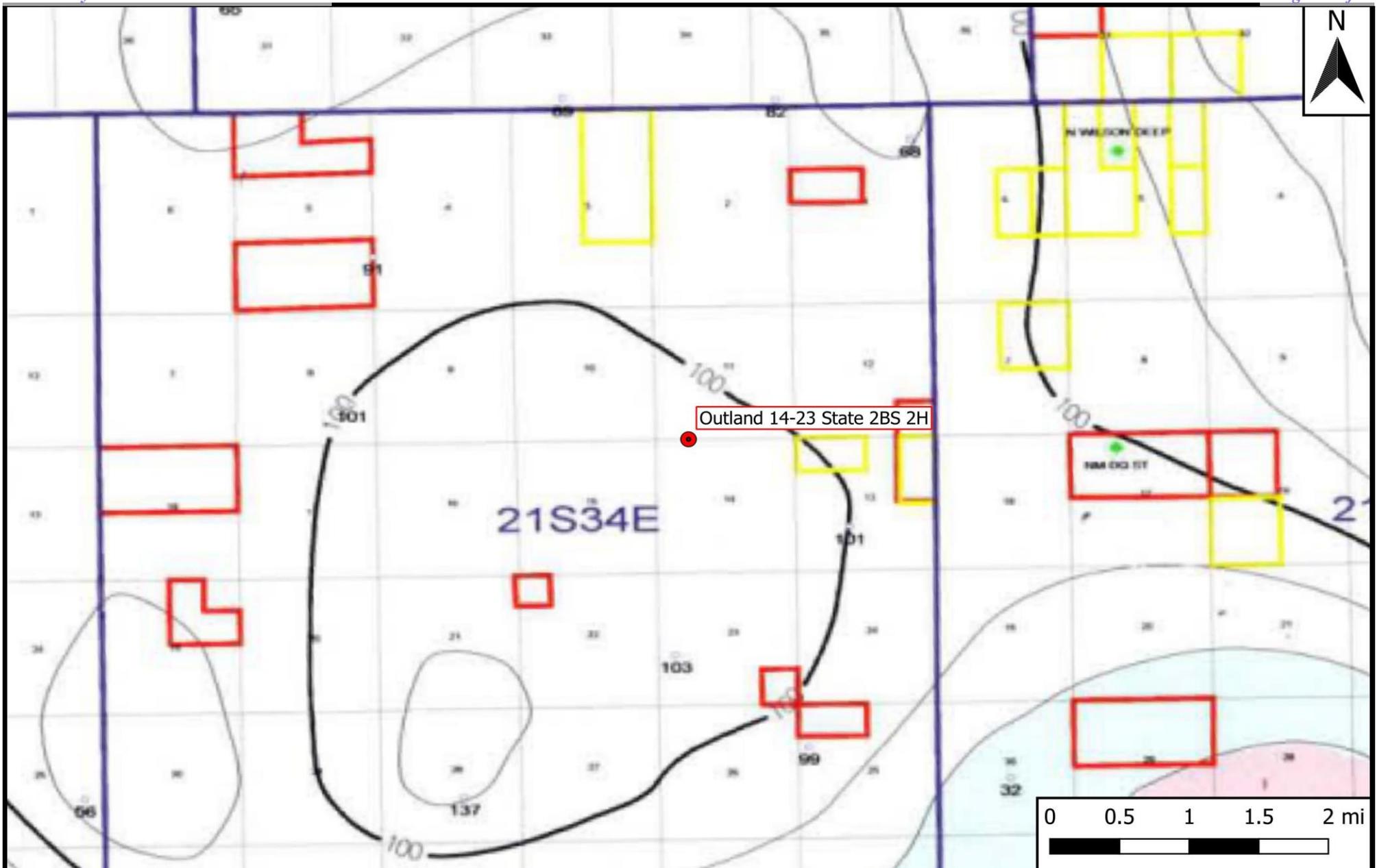
Red Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Permian Resources Outland 14-23 State 2BS 2H NMOCD Ref. #: NOY1831140454 (1RP-5260)												
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000	
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600	
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl	
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)	
TP-2	12/15/2023	0	In-Situ	<0.050	<0.300	<10.0	81.8	81.8	<10.0	81.8	336	
TP-2	12/15/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448	
TP-2	12/15/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400	
TP-3	12/15/2023	3	In-Situ	<0.050	<0.300	<10.0	26.4	26.4	<10.0	26.4	16.0	
TP-3	12/15/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192	
TP-3	12/15/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128	
TP-4	12/15/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128	
TP-4	12/15/2023	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0	
D-1	4/12/2024	0	Excavated	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	143	
D-2	6/3/2024	7	Excavated	<0.050	<0.300	<10.0	16.6	16.6	<10.0	16.6	10,400	
D-2	6/3/2024	9	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,020	
D-2	6/3/2024	11	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608	
D-2	6/3/2024	13	Excavated	<0.050	<0.300	<10.0	20.0	20.0	13.9	33.9	64.0	
D-3	6/3/2024	10	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288	
D-3	6/3/2024	12	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
D-4	6/3/2024	7	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,840	
D-4	6/3/2024	9	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,380	
D-4	6/3/2024	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544	
D-4	6/3/2024	13	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
Merchant Outland Pit	9/4/2024	N/A	Backfill	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	

Dash (-): Sample not analyzed for that constituent.
Bold: NMOCD Closure Criteria exceedance.
Red: NMOCD Reclamation Standard exceedance.
 Red Border with Shading: Highest observed concentration.

Appendix A

Depth to Groundwater and NMOCD Siting Information



Legend
 ● Site Location

Figure 4
 Inferred Depth to Groundwater Trend Map
 Permian Resources
 Outland 14-23 State 2BS 2H
 GPS: 32.486037, -103.445132
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/21/24



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	WellDepth	Average Depth to Water	Water Column
CP 01848 POD2		CP	LE	4	3	1	13	21S	34E	647587	3594789	1604	96	80	16
CP 01848 POD3		CP	LE	2	4	1	13	21S	34E	647904	3594858	1883	87	70	17
CP 00089	O	CP	LE		2	1	13	21S	34E	647840	3594615	1905	235		
CP 01366 POD1		CP	LE	4	4	1	16	21S	34E	643196	3594698	2974	180	110	70
CP 01671 POD1		CP	LE	2	4	1	16	21S	34E	643108	3594887	3024	157		
CP 01364 POD1		CP	LE	4	2	3	16	21S	34E	643147	3594331	3126	165	105	60
CP 00590 POD1		CP	LE				01	21S	34E	648099	3597829*	3168	79		

Average Depth to Water: **91 feet**
 Minimum Depth: **70 feet**
 Maximum Depth: **110 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 646093.22 **Northing (Y):** 3595376.14 **Radius:** 3220

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/21/24 10:24 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)				X	Y		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00089	2	1	13	21S	34E		647840	3594615

Driller License:	Driller Company:	
Driller Name: BUCK THERIAE		
Drill Start Date: 08/28/1943	Drill Finish Date:	Plug Date:
Log File Date:	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 7.00	Depth Well: 235 feet	Depth Water:

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)
Well Tag	POD Number	(quarters are smallest to largest)	Q64 Q16 Q4	Sec	Tws	Rng
	CP 00590 POD1			01	21S	34E
						X Y
						648099 3597829*

Driller License: 122	Driller Company: UNKNOWN	
Driller Name:		
Drill Start Date:	Drill Finish Date:	Plug Date:
Log File Date:	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 3 GPM
Casing Size: 6.63	Depth Well: 79 feet	Depth Water:

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY

Revised December 1975

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

Declaration of Owner of Underground Water Right

80227
19

CAPITAN BASIN

BASIN NAME

Declaration No. CP-590

Date received April 17, 1979

79 APR 20 PM 3 00

STATEMENT

1. Name of Declarant THE MERCHANT LIVESTOCK COMPANY
Mailing Address P.O. Box 548 Carlsbad STATE ENGINEER OFFICE
County of Eddy, State of New Mexico SANTA FE, N.M. 87501

2. Source of water supply shallow
(artesian or shallow water aquifer)

3. Describe well location under one of the following subheadings:
a. $\frac{1}{4}$ Lot 16 $\frac{1}{4}$ of Sec. 1 Twp. 21 S Rge. 34 E N.M.P.M., in Lea County.
b. Tract No. _____ of Map No. _____ of the _____
c. X = _____ feet, Y = _____ feet, N. M. Coordinate System _____ Zone _____
in the _____ Grant.
On land owned by _____

4. Description of well: date drilled 1911 driller _____ depth 79' feet.
outside diameter of casing 6 5/8 inches; original capacity _____ gal. per min.; present capacity 3 gal. per min.; pumping lift _____ feet; static water level 70 feet (above) (below) land surface;
make and type of pump _____
make, type, horsepower, etc., of power plant _____
Fractional or percentage interest claimed in well _____

5. Quantity of water appropriated and beneficially used up to 3
~~(acre feet per annum)~~ (acre feet per annum)
for stock water purposes.

6. Acreage actually irrigated _____ acres, located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acres Irrigated	Owner
				<u>stock only</u>	<u>The Merchant Livestock Co.</u>

(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)

7. Water was first applied to beneficial use 1911 month _____ day _____ year _____ since that time has been used fully and continuously on all of the above described lands or for the above described purposes except as follows: _____

STATE ENGINEER OFFICE
OSWELL, N.M.
79 APR 17 AM 8 04

8. Additional statements or explanations name of well - Jeff Davis

I, J. D. Merchant, Jr., President being first duly sworn upon my oath, depose and say that the above is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully read each and all of the terms contained therein and that the same are true to the best of my knowledge and belief.

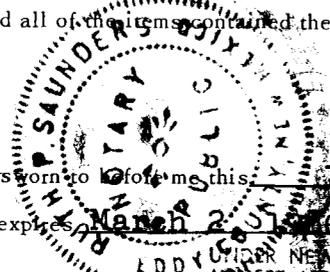
546608

THE MERCHANT LIVESTOCK CO., declarant.

by: J. D. Merchant, Jr., President
day of April, A.D. 19 79

Subscribed and sworn to before me this 12th

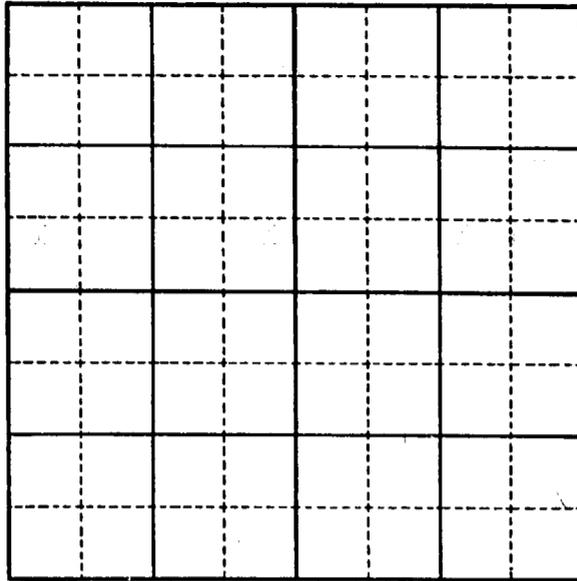
My commission expires March 2, 1980 Paul Saunders Notary Public



UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM. ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CLAIM.

Locate well and areas actually irrigated as accurately as possible on following plat:

Section (s) _____, Township _____, Range _____ N. M. P. M.



INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a \$1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-3. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest 2½ acre subdivision. If located on unsurveyed lands, describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

April 17, 1979

Files: CP-584; CP-585; CP-586; CP-587; CP-588;
CP-589; CP-590; CP-591; CP-592; CP-593;
CP-594; CP-595; CP-596; CP-597; CP-598;
CP-599; CP-600; CP-601; CP-602

The Merchant Livestock Company
P. O. Box 548
Carlsbad, NM 88220

Gentlemen:

Enclosed are your copies of Declarations of Owner of Underground Water Right as numbered above, which have been filed for record in the office of the State Engineer.

Please refer to each individual number in all future correspondence concerning these declarations.

The filing of these declarations does not indicate affirmation or rejection of the statements contained therein.

Yours very truly,

J. C. Groseclose
Basin Supervisor

JCG/eh
encls.
cc: Santa Fe



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01364 POD1	4	2	3	16	21S	34E	643147	3594331

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: CORKY GLENN		
Drill Start Date: 06/24/2015	Drill Finish Date: 06/24/2015	Plug Date:
Log File Date: 06/26/2015	PCW Rcv Date: 04/27/2017	Source: Shallow
Pump Type: SUBMER	Pipe Discharge Size: 3	Estimated Yield: 35 GPM
Casing Size: 8.63	Depth Well: 165 feet	Depth Water: 105 feet

Water Bearing Stratifications:	Top	Bottom	Description
	105	153	Sandstone/Gravel/Conglomerate

Meter Number: 18280	Meter Make: SEAMETRICS
Meter Serial Number: 05 212 614	Meter Multiplier: 1.0000
Number of Dials: 8	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
06/26/2015	2015	0	A	ap		0
07/27/2015	2015	49879	A	ap		64.291
08/21/2015	2015	50233	A	ap		0.456
09/30/2015	2015	50233	A	ap		0
10/31/2015	2015	50233	A	ap		0
11/30/2015	2015	52676	A	ap		3.149
04/28/2016	2016	97694	A	ap		58.025
06/30/2016	2016	131190	A	ap		43.174
07/27/2016	2016	155986	A	ap		31.960
09/01/2016	2016	161887	A	ap		7.606
09/28/2016	2016	174036	A	ap		15.659
10/31/2016	2016	180596	A	ap		8.455
11/29/2016	2016	200991	A	ap		26.288
12/31/2016	2016	200991	A	ap		0
02/01/2017	2017	200991	A	ap		0
03/01/2017	2017	200991	A	ap		0
03/31/2017	2017	200991	A	ap		0
05/01/2017	2017	200991	A	ap		0
05/31/2017	2017	200991	A	ap		0
07/31/2017	2017	239371	A	ap		49.469
10/31/2017	2017	284859	A	ap		58.631
11/30/2017	2017	307429	A	ap		29.091

12/30/2017	2017	465973	A	ap	204.353
01/30/2018	2018	490805	A	ap	32.007
02/28/2018	2018	503452	A	ap	16.301
03/30/2018	2018	519955	A	ap	21.271
04/30/2018	2018	539357	A	ap	25.008
06/01/2018	2018	573740	A	ap	44.317
06/29/2018	2018	603789	A	ap	38.731
07/31/2018	2018	603864	A	ap	0.097
08/30/2018	2018	636674	A	ap	42.290
09/30/2018	2018	664748	A	ap	36.185
11/30/2018	2018	688316	A	ap	30.378
01/02/2019	2018	700034	A	ca	1.510
02/01/2019	2019	700230	A	RPT	0.025
08/01/2019	2019	781145	A	RPT	10.429
09/01/2019	2019	781188	A	RPT	0.006
09/30/2019	2019	795696	A	RPT	1.870
10/31/2019	2019	829344	A	RPT	4.337
11/30/2019	2019	854139	A	RPT	3.196
12/31/2019	2019	868898	A	RPT	1.902
02/01/2020	2020	892649	A	RPT	3.061
03/01/2020	2020	909531	A	RPT	2.176
04/01/2020	2020	924970	A	RPT	1.990
05/01/2020	2020	924970	A	RPT	0
06/01/2020	2020	924970	A	RPT	0
08/01/2020	2020	936094	A	RPT	1.434
09/01/2020	2020	942895	A	RPT	0.877
10/01/2020	2020	942895	A	RPT	0
10/31/2020	2020	943082	A	WEB	0.024 X
11/30/2020	2020	943082	A	WEB	0 X
12/31/2020	2020	994754	A	WEB	6.660 X
01/30/2021	2021	996172	A	ad	0.183
02/28/2021	2021	1017693	A	ad	2.774
03/31/2021	2021	1026468	A	ad	1.131
04/30/2021	2021	1028037	A	ad	0.202
05/31/2021	2021	1060431	A	ad	4.175
06/30/2021	2021	1123906	A	ad	8.182
07/31/2021	2021	1123906	A	ad	0
08/31/2021	2021	16462	A	ad	0
08/31/2021	2021	1143586	A	ad	2.537
09/30/2021	2021	30978	A	ad	1.871
10/31/2021	2021	30979	A	ad	0
11/30/2021	2021	30979	A	ad	0
12/31/2021	2021	30979	A	ad	0
01/31/2022	2022	30979	A	ad	0
02/28/2022	2022	32692	A	ad	0.221
03/31/2022	2022	60131	A	ad	3.537
04/30/2022	2022	77450	A	ad	2.232
06/01/2022	2022	132325	A	ad	7.073
07/01/2022	2022	149721	A	ad	2.242

08/01/2022	2022	149721	A	ad	0
09/01/2022	2022	149721	A	ad	0
11/01/2022	2022	278838	A	WEB	16.642 X
12/01/2022	2022	292073	A	WEB	1.706 X
01/01/2023	2022	317352	A	WEB	3.258 X
02/01/2023	2023	317353	A	WEB	0 X
03/01/2023	2023	339287	A	WEB	2.827 X
04/01/2023	2023	339287	A	WEB	0 X
05/01/2023	2023	381819	A	WEB	5.482 X
06/01/2023	2023	430440	A	WEB	6.267 X
07/01/2023	2023	436246	A	WEB	0.748 X
08/01/2023	2023	449633	A	WEB	1.725 X
09/01/2023	2023	484855	A	WEB	4.540 X
10/01/2023	2023	484855	A	WEB	0 X
11/01/2023	2023	531043	A	WEB	5.953 X
12/01/2023	2023	531043	A	WEB	0 X
01/01/2024	2023	543751	A	WEB	1.638 X
02/01/2024	2024	543751	A	WEB	0 X
03/01/2024	2024	543751	A	WEB	0 X
04/01/2024	2024	543751	A	WEB	0 X
05/01/2024	2024	543751	A	WEB	0 X
06/07/2024	2024	543751	A	WEB	0 X

**YTD Meter Amounts:		
Year	Amount	
2015	67.896	
2016	191.167	
2017	341.544	
2018	288.095	
2019	21.765	
2020	16.222	
2021	21.055	
2022	36.911	
2023	29.180	
2024	0	

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01366 POD1	4	4	1	16	21S	34E	643196	3594698

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: CORKY GLEN		
Drill Start Date: 06/19/2015	Drill Finish Date: 06/19/2015	Plug Date:
Log File Date: 06/26/2015	PCW Rcv Date: 04/27/2017	Source: Shallow
Pump Type: SUBMER	Pipe Discharge Size: 3	Estimated Yield: 35 GPM
Casing Size: 8.63	Depth Well: 180 feet	Depth Water: 110 feet

Water Bearing Stratifications:	Top	Bottom	Description
	110	160	Sandstone/Gravel/Conglomerate

Meter Number: 18281	Meter Make: SEAMETRICS
Meter Serial Number: 05 212 606	Meter Multiplier: 1.0000
Number of Dials: 8	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
07/01/2015	2015	0	A	ap		0
07/27/2015	2015	26985	A	ap		34.782
08/31/2015	2015	26985	A	ap		0
09/30/2015	2015	26985	A	ap		0
10/31/2015	2015	26985	A	ap		0
11/30/2015	2015	29343	A	ap		3.039
04/28/2016	2016	70297	A	ap		52.787
06/30/2016	2016	101474	A	ap		40.185
06/30/2016	2016	0	A	ap	new meter on old base	0
07/27/2016	2016	22719	A	ap		292.833
09/01/2016	2016	27505	A	ap		61.688
09/28/2016	2016	40240	A	ap		164.146
11/29/2016	2016	46546	A	ap		81.280
11/29/2016	2016	64235	A	ap		227.999
12/31/2016	2016	64235	A	ap		0
02/01/2017	2017	64235	A	ap		0
03/01/2017	2017	64235	A	ap		0
03/31/2017	2017	64235	A	ap		0
05/01/2017	2017	64235	A	ap		0
05/31/2017	2017	64235	A	ap		0
07/31/2017	2017	99062	A	ap		448.897
10/31/2017	2017	147627	A	ap		625.970

11/30/2017	2017	165441	A	ap	229.610
12/30/2017	2017	197744	A	ap	416.364
01/30/2018	2018	215118	A	ap	223.939
02/28/2018	2018	226825	A	ap	150.895
03/30/2018	2018	242179	A	ap	197.903
04/30/2018	2018	259935	A	ap	228.863
06/01/2018	2018	291863	A	ap	411.530
06/29/2018	2018	320334	A	ap	366.972
07/31/2018	2018	320335	A	ap	0.013
08/30/2018	2018	349558	A	ap	376.665
09/30/2018	2018	372983	A	ap	301.932
11/30/2018	2018	393314	A	ap	262.053
01/02/2019	2018	415950	A	RPT	2.918
02/01/2019	2019	446864	A	RPT	3.985
08/01/2019	2019	519535	A	RPT	9.367
09/30/2019	2019	532181	A	RPT	1.630
10/31/2019	2019	558235	A	RPT	3.358
11/30/2019	2019	581962	A	RPT	3.058
12/31/2019	2019	595185	A	RPT	1.704
02/01/2020	2020	605584	A	RPT	1.340
03/01/2020	2020	618205	A	RPT	1.627
06/01/2020	2020	630926	A	RPT	1.640
08/01/2020	2020	643456	A	RPT	1.615
09/01/2020	2020	650901	A	RPT	0.960
10/01/2020	2020	650901	A	RPT	0
10/31/2020	2020	652012	A	WEB	0.143 X
11/30/2020	2020	652012	A	WEB	0 X
12/31/2020	2020	709950	A	WEB	7.468 X
01/31/2021	2021	709950	A	ad	0
02/28/2021	2021	720466	A	ad	1.355
03/31/2021	2021	738323	A	ad	2.302
04/30/2021	2021	745950	A	ad	0.983
05/31/2021	2021	762080	A	ad	2.079
06/30/2021	2021	778150	A	ad	2.071
07/31/2021	2021	778151	A	ad	0
08/31/2021	2021	796719	A	ad	0
08/31/2021	2021	15007	A	ad	0
09/30/2021	2021	20289	A	ad	0.681
10/31/2021	2021	52851	A	ad	4.197
11/30/2021	2021	52851	A	ad	0
12/31/2021	2021	58527	A	ad	0.732
01/31/2022	2022	58527	A	ad	0
02/28/2022	2022	58527	A	ad	0
03/22/2022	2022	58538	A	ad	0.001
04/30/2022	2022	75228	A	ad	2.151
06/01/2022	2022	126413	A	ad	6.597
07/01/2022	2022	142302	A	ad	2.048
08/01/2022	2022	142302	A	ad	0
09/01/2022	2022	142302	A	ad	0

11/01/2022	2022	259985	A	WEB	15.169 X
12/01/2022	2022	272049	A	WEB	1.555 X
01/01/2023	2022	295089	A	WEB	2.970 X
02/01/2023	2023	295089	A	WEB	0 X
03/01/2023	2023	314761	A	WEB	2.536 X
04/01/2023	2023	314761	A	WEB	0 X
05/01/2023	2023	353069	A	WEB	4.938 X
06/01/2023	2023	396775	A	WEB	5.633 X
07/01/2023	2023	402013	A	WEB	0.675 X
08/01/2023	2023	412371	A	WEB	1.335 X
09/01/2023	2023	444260	A	WEB	4.110 X
10/01/2023	2023	444260	A	WEB	0 X
11/01/2023	2023	486606	A	WEB	5.458 X
12/01/2023	2023	486606	A	WEB	0 X
01/01/2024	2023	542948	A	WEB	7.262 X
02/01/2024	2024	550626	A	WEB	0.990 X
03/01/2024	2024	583016	A	WEB	4.175 X
04/01/2024	2024	607344	A	WEB	3.136 X
05/01/2024	2024	627225	A	WEB	2.563 X
06/07/2024	2024	650160	A	WEB	2.956 X

^x **YTD Meter Amounts:		
Year	Year	Amount
	2015	37.821
	2016	920.918
	2017	1720.841
	2018	2523.683
	2019	23.102
	2020	14.793
	2021	14.400
	2022	30.491
	2023	31.947
	2024	13.820

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
205F4	CP 01671 POD1	2	4	1	16	21S	34E	643108	3594887

Driller License: 1731 **Driller Company:** HARRISON & COOPER, INC DBA: HCI DRILLING

Driller Name: COOPER, KENNY

Drill Start Date: 10/05/2017 **Drill Finish Date:** 10/05/2017 **Plug Date:**

Log File Date: 10/31/2017 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 5.00 **Depth Well:** 157 feet **Depth Water:**

	Casing Perforations:	Top	Bottom
		117	157

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6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEERS OFFICE
SANTA FE, NEW MEXICO
2017 OCT 10 PM 3:16

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1; WW-1		WELL TAG ID NO.		OSE FILE NO(S). CP-1671			
	WELL OWNER NAME(S) The Merchand Livestock Co., Inc.				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS P.O. Box 1105				CITY Eunice	STATE NM	ZIP 88231	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 28	SECONDS 55.2606	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LATITUDE				* DATUM REQUIRED: WGS 84			
	LONGITUDE	-103	28	37.07	W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1731		NAME OF LICENSED DRILLER Kenny Cooper			NAME OF WELL DRILLING COMPANY Harrison & Cooper, Inc. (DBA HCI Drilling)		
	DRILLING STARTED 10/05/2017	DRILLING ENDED 10/05/2017	DEPTH OF COMPLETED WELL (FT) 157	BORE HOLE DEPTH (FT) 157	DEPTH WATER FIRST ENCOUNTERED (FT)			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 114.9'			
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	117	9 7/8	Riser	Bell End	5	Sch 40	
	117	157	9 7/8	Screen	Bell End	5	Sch 40	0.035
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	97	9 7/8	Bentonite Grout	1	Poured		
	97	157	9 7/8	Sand - 8/16	1	Poured		

STATE ENGINEERS OFFICE
SANTA FE, NEW MEXICO
2017 NOV - 6 PM 12:38

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. CP-1671	POD NO. 1	TRN NO. 610479
LOCATION Dom STR	2B. 34E. 16. 142	WELL TAG ID NO. 205F4

PAGE 1 OF 2



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)		(NAD83 UTM in meters)
Well Tag	POD Number	(quarters are smallest to largest)		
		Q64 Q16 Q4 Sec Tws Rng	X	Y
NA	CP 01848 POD2	4 3 1 13 21S 34E	647587	3594789

Driller License: 1249	Driller Company: ATKINS ENGINEERING ASSOC. INC.	
Driller Name: JACKIE ATKINS		
Drill Start Date: 06/01/2021	Drill Finish Date: 06/02/2021	Plug Date:
Log File Date: 07/01/2021	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 2.00	Depth Well: 96 feet	Depth Water: 80 feet

Water Bearing Stratifications:	Top	Bottom	Description
	81	96	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	0	96

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6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01848 POD3	2	4	1	13	21S	34E	647904	3594858

Driller License: 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

Driller Name: ATKINS, JACKIE D.UELENER

Drill Start Date: 08/19/2021 **Drill Finish Date:** 08/19/2021 **Plug Date:**

Log File Date: 09/13/2021 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 2.00 **Depth Well:** 87 feet **Depth Water:** 70 feet

Water Bearing Stratifications:	Top	Bottom	Description
	65	87	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	67	87

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/21/24 10:24 AM

POINT OF DIVERSION SUMMARY



Legend	
	Site Location
	Well - USGS
	500 Ft Radius
	1000 Ft Radius
	0.5 Mi Radius

Figure 5
 USGS Well Proximity Map
 Permian Resources
 Outland 14-23 State 2BS 2H
 GPS: 32.486037, -103.445132
 Lea County



Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/21/24



USGS Home
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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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[Groundwater levels for the Nation](#)

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322824103253301

Minimum number of levels = 1

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

USGS 322824103253301 21S.34E.13.32413

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°28'24", Longitude 103°25'33" NAD27

Land-surface elevation 3,650 feet above NAVD88

The depth of the well is 335 feet below land surface.

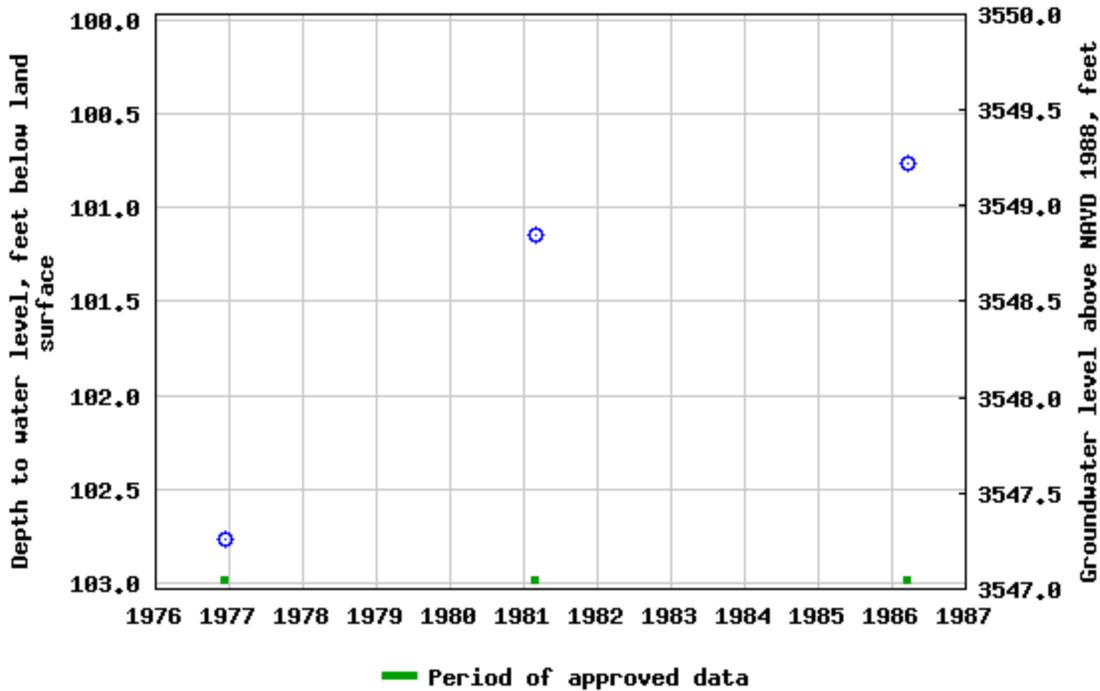
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

USGS 322824103253301 21S,34E,13,32413



Breaks in the plot represent a gap of at least one year between field measurements.
[Download a presentation-quality graph](#)

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2024-06-21 12:21:10 EDT

0.55 0.47 nadww02

Appendix B

Field Data and Soil Profile Logs



Sample Log

Date: 8-22-24

Project: Outland 14-23 State 2BS 2H

Project Number: 20751 Latitude: 32.486037 Longitude: -103.445132

Sample ID	PID/Odor	Chloride Conc.	GPS
SW-47	-	1256 CS-8a B @ 7'	- 5640
SW-47A #1	-	1088 CS-8a B @ 8'	- 2384
SW-47B	-	188 SW-1	- 6092
SW-38A #1	-	1768 CS-8a B @ 9'	- 1276
SW-38B	-	872 SW-1	- 2584
SW-38B #2	-	872 CS-43-B @ 10'	- 352
SW-38B #3	-	872 CS-47B @ 7'	- 252
SW-38B #4	-	804 CS-8a B @ 10'	- 436
SW-38C	-	804 SW-52A	- 352
SW-38C #1	-	804 CS-79B @ 11'	- 480
SW-38C #2	-	872 SW-37B	- 392
SW-38C #3	-	804 SW-36B	- 1800
SW-38C #4	-	1440 SW-36B	- 1276
SW-1	-	872 SW-36B	- 816
NW-1	-	2544 SW-61A	- 1680
FL-1 @ 8'	-	1256 SW-36B	- 436
FL-1 @ 9'	-	1168 SW-61A	- 692
FL-1 @ 10'	-	624 SW-6' B	- 352
SW-38D	-	1168	-
NW-1	-	872	-
NW-1	-	684	-
NW-1	-	624	-
NW-1	-	684	-
NW-1	-	520	-
SW-38D #1	-	276	-
SW-38D #2	-	348	-
SW-38D #3	-	872	-
FL-1 @ 10'	-	472	-
SW-38D #4	-	804	-
SW-38D #5	-	1168	-
SW-38E	-	624	-
CS-61-B @ 6'	-	276	-
CS-8a B @ 6'	-	1256	-
SW-52A	-	2544	-
NW-2	-	352	-
SW-1	-	27,492	-

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples = SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



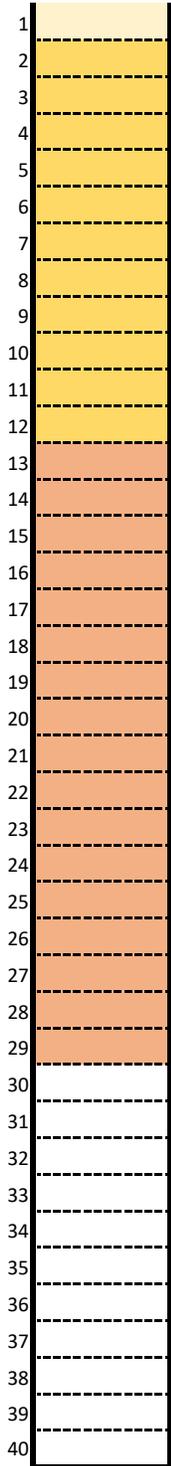
Soil Profile

Date: 10/18/2024

Project: Outland 14-23 State 2BS 2H

Project Number: 20751 Latitude: 32.486037 Longitude: -103.445132

Depth (ft. bgs)



Description

Imported Fill

Caliche/Hard Rock

Brownish Red Sandy Caliche

TD

Appendix C

Laboratory Analytical Reports



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

December 06, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND

Enclosed are the results of analyses for samples received by the laboratory on 12/01/23 13:56.

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, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 1 (1') (H236469-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.02	101	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	272	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	25.5	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 2 (1') (H236469-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.02	101	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	192	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 3 (1') (H236469-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.02	101	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	544	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	45.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 4 (3') (H236469-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	320	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 5 (3') (H236469-05)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	160	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	215	108	200	2.48		
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 6 (3') (H236469-06)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	256	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	215	108	200	2.48		
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 7 (3') (H236469-07)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	96.0	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	215	108	200	2.48		
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 8 (3') (H236469-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	128	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 9 (3') (H236469-09)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	176	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	215	108	200	2.48		
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 10 (3') (H236469-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	144	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 11 (3') (H236469-11)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	240	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	215	108	200	2.48		
DRO >C10-C28*	14.0	10.0	12/04/2023	ND	213	107	200	3.16		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 12 (3') (H236469-12)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	80.0	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	215	108	200	2.48		
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 13 (3') (H236469-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	352	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	215	108	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	213	107	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 14 (3') (H236469-14)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	176	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	187	93.6	200	9.08		
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 15 (3') (H236469-15)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	256	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 16 (3') (H236469-16)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	144	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	187	93.6	200	9.08		
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 17 (3') (H236469-17)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	240	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	187	93.6	200	9.08		
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 18 (3') (H236469-18)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	416	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	187	93.6	200	9.08		
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 19 (3') (H236469-19)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	528	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	187	93.6	200	9.08		
DRO >C10-C28*	36.8	10.0	12/04/2023	ND	195	97.3	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 20 (3') (H236469-20)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	272	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	191	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 21 (3') (H236469-21)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	448	16.0	12/04/2023	ND	416	104	400	3.92		

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	12/04/2023	ND	187	93.6	200	9.08		
DRO >C10-C28*	304	10.0	12/04/2023	ND	195	97.3	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND						

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 22 (3') (H236469-22)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	352	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	21.1	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 23 (3') (H236469-23)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	1.99	99.7	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.10	105	2.00	2.15	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.30	105	6.00	2.64	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	320	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	<10.0	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 24 (3') (H236469-24)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.23	112	2.00	12.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	768	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	19.8	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 25 (3') (H236469-25)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.23	112	2.00	12.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5	
Total BTEX	<0.300	0.300	12/04/2023	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	224	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	31.6	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 26 (3') (H236469-26)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.23	112	2.00	12.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	128	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	17.7	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 27 (3') (H236469-27)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.23	112	2.00	12.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5	
Total BTEX	<0.300	0.300	12/04/2023	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	64.0	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	10.3	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 28 (3') (H236469-28)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.23	112	2.00	12.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5	
Total BTEX	<0.300	0.300	12/04/2023	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	4640	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	241	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	68.1	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/01/2023	Sampling Date:	12/01/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 29 (3') (H236469-29)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2023	ND	2.23	112	2.00	12.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.20	110	2.00	12.7	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.16	108	2.00	12.7	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.86	114	6.00	10.5	
Total BTEX	<0.300	0.300	12/04/2023	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	2200	16.0	12/04/2023	ND	416	104	400	3.92	

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	12/04/2023	ND	187	93.6	200	9.08	
DRO >C10-C28*	26.4	10.0	12/04/2023	ND	195	97.3	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	12/04/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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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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: NTRK Project Manager: Beth Haskell Address: 209 W McRay St City: Carlisland State: NM Zip: 88220 Phone #: 936-929-8056 Fax #: Project #: 237863 Project Owner: Earthstone Project Name: Outland Project Location: Lea County Sampler Name: Tyler Kamball				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPT Chlorides BTEX											
H236469						X							12-1	9:30												
21	CS-21 (3)																									
22	CS-22 (3)																									
23	CS-23 (3)																									
24	CS-24 (3)																									
25	CS-25 (3)																									
26	CS-26 (3)																									
27	CS-27 (3)																									
28	CS-28 (3)																									
29	CS-29 (3)																									

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Relinquished By: Date: 12-1-25 Time: 1:56	Received By: Date: Time:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Al! Results are emailed. Please provide Email address:
Relinquished By: Date: Time:	Received By: Date: Time:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.1 Corrected Temp. °C	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
	Thermometer ID #140 Correction Factor 0°C	CHECKED BY: (Initials) VO

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

December 07, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND

Enclosed are the results of analyses for samples received by the laboratory on 12/04/23 15:00.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 30 (4') (H236498-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	304	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	10.3	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 31 (4') (H236498-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	528	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	11.4	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 32 (6') (H236498-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	288	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 33 (6') (H236498-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	2840	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	22.3	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 34 (6') (H236498-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	1260	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	770	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 35 (9') (H236498-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	160	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	16.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 36 (9') (H236498-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	560	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 37 (9') (H236498-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	1440	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 38 (9') (H236498-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	560	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	16.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 39 (9') (H236498-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	112	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 40 (9') (H236498-11)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	288	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	211	105	200	1.01	
DRO >C10-C28*	32.4	10.0	12/05/2023	ND	216	108	200	0.791	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 41 (9') (H236498-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	240	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	51.9	10.0	12/05/2023	ND	196	97.8	200	2.59	QM-07
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 42 (9') (H236498-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/07/2023	ND	432	108	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	181	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 43 (9') (H236498-14)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/07/2023	ND	432	108	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	135	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 44 (9') (H236498-15)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/07/2023	ND	432	108	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 45 (9') (H236498-16)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/07/2023	ND	432	108	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 46 (9') (H236498-17)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	1.93	96.5	2.00	1.85	
Toluene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	0.254	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.03	102	2.00	0.160	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.10	102	6.00	0.303	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/07/2023	ND	432	108	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	85.6	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 47 (9') (H236498-18)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	12/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/05/2023	ND	208	104	200	1.89		
DRO >C10-C28*	102	10.0	12/05/2023	ND	196	97.8	200	2.59		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 135 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 48 (9') (H236498-19)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	12/07/2023	ND	432	108	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	87.6	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	OUTLAND	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Dionica Hinojos
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 49 (9') (H236498-20)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	12/07/2023	ND	432	108	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	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	170	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: NTOE	BILL TO	ANALYSIS REQUEST										
Project Manager: Betsy Haske		P.O. #:										
Address: 209 Wmchay		Company:										
City: Carlsbad State: NM Zip: 88220		Attn:										
Phone #: 436-924-8056 Fax #:		Address:										
Project #: 237863 Project Owner: Earthstone		City:										
Project Name: Outland		State: Zip:										
Project Location: Lea County		Phone #:										
Sampler Name: cyer/unk all	Fax #:											

FOR LAB USE ONLY		(G/RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	TRH	Chlorides	BTEX
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
H232498	CS-30 (4')			X							12-4	9:00				
16900165400	CS-31 (4')															
	CS-32 (6')															
	CS-33 (6')															
	CS-34 (6')															
	CS-35 (9')															
	CS-36 (9')															
	CS-37 (9')															
	CS-38 (9')															
	CS-39 (9')															

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Relinquished By:	Date: 12-4	Received By:	Verbal Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C -0.90	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
FORM-006 R 3.4 07/11/23	Corrected Temp. °C	Thermometer ID #140 Correction Factor 0°C	REMARKS:		

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

December 21, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND 14-23 STATE UNIT 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 12/18/23 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 4 1-3 (H236708-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	256	16.0	12/19/2023	ND	416	104	400	3.77		

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	12/20/2023	ND	163	81.3	200	4.49		
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36		
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 5 0-3 (H236708-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	64.0	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 6 0-3 (H236708-03)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	12/19/2023	ND	416	104	400	3.77		

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	12/20/2023	ND	163	81.3	200	4.49		
DRO >C10-C28*	13.4	10.0	12/20/2023	ND	168	84.1	200	5.36		
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 7 0-3 (H236708-04)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	12/19/2023	ND	416	104	400	3.77		

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	12/19/2023	ND	191	95.6	200	3.12		
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24		
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND						

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 8 0-3 (H236708-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	464	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 9 0-2 (H236708-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	10700	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 10 0-3 (H236708-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	1790	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 73.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 11 0-3 (H236708-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	80.0	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 12 0-3 (H236708-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	384	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	308	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	66.8	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 13 6-9 (H236708-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	784	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 14 6-9 (H236708-11)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.06	103	2.00	4.43		
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	1280	16.0	12/19/2023	ND	416	104	400	3.77		

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	12/19/2023	ND	191	95.6	200	3.12		
DRO >C10-C28*	35.8	10.0	12/19/2023	ND	201	101	200	3.24		
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND						

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 15 3-6 (H236708-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.06	103	2.00	4.43	
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 16 3-6 (H236708-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.06	103	2.00	4.43	
Toluene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	3.32	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.18	109	2.00	5.43	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.64	111	6.00	4.65	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	128	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 65.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 17 0-3 (H236708-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	80.0	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 18 3-4 (H236708-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	656	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	153	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	38.1	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 19 0-4 (H236708-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	448	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	12.7	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 20 0-4 (H236708-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 21 0-3 (H236708-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	169	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	25.3	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 22 0-5 (H236708-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	112	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	18.9	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 23 0-5 (H236708-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 24 0-5 (H236708-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 25 3-5 (H236708-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/19/2023	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	12/19/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 26 5-9 (H236708-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/19/2023	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	12/20/2023	ND	191	95.6	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	201	101	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 27 3-9 (H236708-24)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98		
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22		
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430		
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND						

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 28 0-9 (H236708-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 29 0-9 (H236708-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 30 0-6 (H236708-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	167	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	11.6	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 31 0-9 (H236708-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	239	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 32 0-6 (H236708-29)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 33 0-9 (H236708-30)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 34 0-9 (H236708-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 35 3-9 (H236708-32)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 36 0-3 (H236708-33)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	2.98	
Toluene*	<0.050	0.050	12/19/2023	ND	2.13	106	2.00	3.69	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.12	106	2.00	3.79	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.28	105	6.00	3.74	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	1260	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 37 0-3 (H236708-34)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	114	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 38 0-3 (H236708-35)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	291	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 39 0-3 (H236708-36)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	12/19/2023	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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 40 0-9 (H236708-37)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	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	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 41 0-10 (H236708-38)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	12/19/2023	ND	416	104	400	3.77		

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	12/19/2023	ND	199	99.5	200	2.22		
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430		
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND						

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 42 3-10 (H236708-39)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	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	48.0	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 43 0-10 (H236708-40)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	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	32.0	16.0	12/19/2023	ND	416	104	400	3.77	

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	12/19/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 44 0-10 (H236708-41)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	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	12/19/2023	ND	416	104	400	3.77	

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	12/20/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 45 0-10 (H236708-42)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13	
Total BTEX	<0.300	0.300	12/19/2023	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	12/19/2023	ND	416	104	400	3.77	

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	12/20/2023	ND	199	99.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	189	94.4	200	0.430	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 46 0-5 (H236708-43)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.28	114	2.00	4.33		
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	4.40		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.20	110	2.00	4.48		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.96	116	6.00	5.13		
Total BTEX	<0.300	0.300	12/19/2023	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	480	16.0	12/19/2023	ND	416	104	400	3.77		

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	12/20/2023	ND	199	99.5	200	2.22		
DRO >C10-C28*	81.1	10.0	12/20/2023	ND	189	94.4	200	0.430		
EXT DRO >C28-C36	21.0	10.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Notes and Definitions

- 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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Chain of Custody



Work Order No: H236708

Page 7 of 11

Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes						
Project Number:	237863	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	Pres. Code																		
Project Location:	Lea Co, NM	Due Date:		Parameters													None: NO					
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm															DI Water: H ₂ O					
PO #:																	Cool: Cool					
SAMPLE RECEIPT		Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice:													MeOH: Me				
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140														HNO ₃ : HN					
COOLER CUSTODY SEALS:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:														NaOH: Na						
SAMPLE CUSTODY SEALS:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	-10.0													H ₂ SO ₄ : H ₂						
TOTAL CONTAINERS:	103	Corrected Temperature:														H ₃ PO ₄ : HP						
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500											NaHSO ₄ : NABIS	
SW-4	1-3	12/15/2023	11:00	X		Comp	1	X	X	X											Na ₂ S ₂ O ₃ : NaSO ₃	
SW-5	0-3	12/15/2023	11:02	X		Comp	1	X	X	X											Zn Acetate+NaOH: Zn	
SW-6	0-3	12/15/2023	11:04	X		Comp	1	X	X	X											NaOH+Ascorbic Acid: SAPC	
SW-7	0-3	12/15/2023	11:06	X		Comp	1	X	X	X												
SW-8	0-3	12/15/2023	11:08	X		Comp	1	X	X	X												
SW-9	0-2	12/15/2023	11:10	X		Comp	1	X	X	X												
SW-10	0-3	12/15/2023	11:12	X		Comp	1	X	X	X												
SW-11	0-3	12/15/2023	11:14	X		Comp	1	X	X	X												
SW-12	0-3	12/15/2023	11:16	X		Comp	1	X	X	X												
SW-13	6-9	12/15/2023	11:18	X		Comp	1	X	X	X												

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	12-18-23 1055			

Chain of Custody



Work Order No: H236708

Page 9 of 11

Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes							
Project Number:	237863	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	Pres. Code																			
Project Location:	Lea Co, NM	Due Date:		Parameters													None: NO						
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm															DI Water: H ₂ O						
PO #:																	Cool: Cool						
SAMPLE RECEIPT		Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice:													MeOH: Me					
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140														HNO ₃ : HN						
COOLER CUSTODY SEALS:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:														NaOH: Na							
SAMPLE CUSTODY SEALS:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	-10.02													H ₂ SO ₄ : H ₂							
TOTAL CONTAINERS:	103	Corrected Temperature:														H ₃ PO ₄ : HP							
																NaHSO ₄ : NABIS							
																Na ₂ S ₂ O ₃ : NaSO ₃							
																Zn Acetate+NaOH: Zn							
																NaOH+Ascorbic Acid: SAPC							
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments			
SW-24	0-5	12/15/2023	11:40	X		Comp	1	X	X	X													
SW-25	3-5	12/15/2023	11:42	X		Comp	1	X	X	X													
SW-26	5-9	12/15/2023	11:44	X		Comp	1	X	X	X													
SW-27	3-9	12/15/2023	11:46	X		Comp	1	X	X	X													
SW-28	0-9	12/15/2023	11:48	X		Comp	1	X	X	X													
SW-29	0-9	12/15/2023	11:50	X		Comp	1	X	X	X													
SW-30	0-6	12/15/2023	11:52	X		Comp	1	X	X	X													
SW-31	0-9	12/15/2023	11:54	X		Comp	1	X	X	X													
SW-32	0-6	12/15/2023	11:56	X		Comp	1	X	X	X													
SW-33	0-9	12/15/2023	11:58	X		Comp	1	X	X	X													

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		12/18/23 1055			

Chain of Custody



Work Order No: H236708

Page 10 of 11

Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes						
Project Number:	237863	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	Pres. Code																		
Project Location:	Lea Co, NM	Due Date:		Parameters													None: NO					
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm															DI Water: H ₂ O					
PO #:																	Cool: Cool					
SAMPLE RECEIPT		Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice:													MeOH: Me				
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140														HNO ₃ : HN					
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:														H ₂ SO ₄ : H ₂						
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	-10.0													NaOH: Na						
Total Containers:	103	Corrected Temperature:														H ₃ PO ₄ : HP						
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500											NaHSO ₄ : NABIS	
SW-34	0-9	12/15/2023	12:00	X		Comp	1	X	X	X											Na ₂ S ₂ O ₃ : NaSO ₃	
SW-35	3-9	12/15/2023	12:02	X		Comp	1	X	X	X											Zn Acetate+NaOH: Zn	
SW-36	0-3	12/15/2023	12:04	X		Comp	1	X	X	X											NaOH+Ascorbic Acid: SAPC	
SW-37	0-3	12/15/2023	12:06	X		Comp	1	X	X	X												
SW-38	0-3	12/15/2023	12:08	X		Comp	1	X	X	X												
SW-39	0-3	12/15/2023	12:10	X		Comp	1	X	X	X												
SW-40	0-9	12/15/2023	12:12	X		Comp	1	X	X	X												
SW-41	0-10	12/15/2023	12:14	X		Comp	1	X	X	X												
SW-42	3-10	12/15/2023	12:16	X		Comp	1	X	X	X												
SW-43	0-10	12/15/2023	12:18	X		Comp	1	X	X	X												

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		10-18-23 1055			

Received by OGD: 11/13/2024 2:50:28 PM

Released to Imaging: 3/10/2025 3:54:39 PM



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

December 21, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND 14-23 STATE UNIT 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 12/18/23 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 50 3 (H236707-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/18/2023	ND	432	108	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	12/18/2023	ND	216	108	200	3.12	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 51 3 (H236707-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/18/2023	ND	432	108	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	12/19/2023	ND	216	108	200	3.12	
DRO >C10-C28*	27.3	10.0	12/19/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 52 3 (H236707-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/18/2023	ND	432	108	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	12/19/2023	ND	216	108	200	3.12	
DRO >C10-C28*	16.9	10.0	12/19/2023	ND	203	101	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 53 3 (H236707-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/18/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	64.1	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 54 3 (H236707-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/18/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	28.9	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 55 3 (H236707-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/18/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 56 3 (H236707-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/18/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	70.8	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 57 3 (H236707-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	114	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 58 3 (H236707-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	48.0	16.0	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	22.5	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 59 3 (H236707-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	41.8	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 60 3 (H236707-11)

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.50	125	2.00	12.9	
Toluene*	0.051	0.050	12/19/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	0.461	0.050	12/19/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	1.98	0.150	12/19/2023	ND	7.60	127	6.00	12.7	
Total BTEX	2.49	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 165 % 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	112	16.0	12/19/2023	ND	432	108	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*	62.0	10.0	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	695	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 61 3 (H236707-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/19/2023	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	80.0	16.0	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	122	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 62 3 (H236707-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.50	125	2.00	12.9	
Toluene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	11.5	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.51	126	2.00	11.7	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.60	127	6.00	12.7	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	288	16.0	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	16.0	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 63 3 (H236707-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.19	120	6.00	4.53	QR-03
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	144	16.0	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	82.9	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 64 3 (H236707-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	96.0	16.0	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	242	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 65 3 (H236707-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/18/2023	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	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	111	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 66 3 (H236707-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	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	320	16.0	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	183	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 67 3 (H236707-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	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	<16.0	16.0	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	21.2	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 68 3 (H236707-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	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	400	16.0	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	43.7	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 69 3 (H236707-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	144	16.0	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	79.8	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 70 3 (H236707-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	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	48.0	16.0	12/19/2023	ND	432	108	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	12/18/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	<10.0	10.0	12/18/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/18/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 71 3 (H236707-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	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	12/19/2023	ND	432	108	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	12/19/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 72 5 (H236707-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	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	144	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	179	89.4	200	17.0	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	181	90.4	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 73 5 (H236707-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	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	160	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	QR-03
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 74 5 (H236707-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	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	112	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 75 5 (H236707-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	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	128	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 76 5 (H236707-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	144	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 77 5 (H236707-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 78 5 (H236707-29)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 79 5 (H236707-30)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 80 5 (H236707-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 81 5 (H236707-32)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 82 5 (H236707-33)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.49	125	2.00	0.0559	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.42	121	2.00	3.77	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.19	120	6.00	4.53	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	22.8	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 83 5 (H236707-34)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 84 5 (H236707-35)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 85 5 (H236707-36)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 86 10 (H236707-37)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 87 10 (H236707-38)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 71.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 88 10 (H236707-39)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 89 10 (H236707-40)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 90 10 (H236707-41)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 91 10 (H236707-42)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 92 10 (H236707-43)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/18/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/18/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	232	116	200	12.3	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	231	115	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 93 10 (H236707-44)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 94 10 (H236707-45)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 95 10 (H236707-46)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 96 10 (H236707-47)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 97 10 (H236707-48)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	80.0	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 98 2 (H236707-49)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	3440	16.0	12/19/2023	ND	432	108	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	12/19/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	92.7	10.0	12/19/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	20.5	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 99 2 (H236707-50)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	1920	16.0	12/19/2023	ND	432	108	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	44.1	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 100 4 (H236707-51)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	96.0	16.0	12/19/2023	ND	432	108	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 101 4 (H236707-52)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	96.0	16.0	12/19/2023	ND	432	108	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 102 4 (H236707-53)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.19	110	2.00	0.569	
Toluene*	<0.050	0.050	12/19/2023	ND	2.30	115	2.00	0.0373	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.345	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.01	117	6.00	1.18	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	80.0	16.0	12/19/2023	ND	432	108	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 103 4 (H236707-54)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	12/19/2023	ND	432	108	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 104 4 (H236707-55)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	128	16.0	12/19/2023	ND	432	108	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	16.5	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 105 4 (H236707-56)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	3040	16.0	12/19/2023	ND	432	108	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	32.4	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 106 5 (H236707-57)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	256	16.0	12/19/2023	ND	432	108	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 1 0-1 (H236707-58)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	80.0	16.0	12/19/2023	ND	432	108	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 2 1-3 (H236707-59)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	496	16.0	12/19/2023	ND	432	108	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 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:

NTG ENVIRONMENTAL
 BECKY HASKELL
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/21/2023	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE UNIT 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	237863	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 3 0-1 (H236707-60)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.14	107	2.00	12.7	
Toluene*	<0.050	0.050	12/19/2023	ND	2.24	112	2.00	12.4	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.26	113	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.80	113	6.00	12.5	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	12/19/2023	ND	432	108	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	12/20/2023	ND	163	81.3	200	4.49	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	168	84.1	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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.
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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: H236707

Project Manager:	Becky Haskell	Bill to: (if different)	Montgomery Floyd
Company Name:	NTG Environmental	Company Name:	Permian Resources
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:		Turn Around		ANALYSIS REQUEST										Preservative Codes						
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code																
Project Location:		Due Date:		Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MIRO)	Chloride 4500	HOLD	None: NO		DI Water: H ₂ O		Cool: Cool		MeOH: Me					
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm							HCL: HC		HNO ₃ : HN		H ₂ SO ₄ : H ₂		NaOH: Na		H ₃ PO ₄ : HP		NaHSO ₄ : NABIS	
PO #:									Na ₂ S ₂ O ₃ : NaSO ₃		Zn Acetate+NaOH: Zn		NaOH+Ascorbic Acid: SAPC							
SAMPLE RECEIPT		Temp Blank:							Wet Ice:											
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:														
Cooler Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Correction Factor:																
Sample Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Temperature Reading:																
Total Containers:		103		Corrected Temperature:																
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont													
CS-60	3	12/15/2023	9:20	X		Comp	1	X	X	X										
CS-61	3	12/15/2023	9:22	X		Comp	1	X	X	X										
CS-62	3	12/15/2023	9:24	X		Comp	1	X	X	X										
CS-63	3	12/15/2023	9:26	X		Comp	1	X	X	X										
CS-64	3	12/15/2023	9:28	X		Comp	1	X	X	X										
CS-65	3	12/15/2023	9:30	X		Comp	1	X	X	X										
CS-66	3	12/15/2023	9:32	X		Comp	1	X	X	X										
CS-67	3	12/15/2023	9:34	X		Comp	1	X	X	X										
CS-68	3	12/15/2023	9:36	X		Comp	1	X	X	X										
CS-69	3	12/15/2023	9:38	X		Comp	1	X	X	X										

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		12-18-23 1055			

11
12
13
14
15
Received by OCD: 11/13/2024 2:50:27 PM

Released to Imaging: 3/10/2025 3:54:39 PM



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

August 30, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/26/24 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/26/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW 47 B (H245177-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	8.22	
Toluene*	<0.050	0.050	08/27/2024	ND	2.04	102	2.00	7.61	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.35	106	6.00	7.35	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/27/2024	ND	448	112	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	08/27/2024	ND	188	94.0	200	3.41	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	199	99.4	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/26/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN - LEA CO NM		

Sample ID: NW1 (H245177-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	2.01	100	2.00	8.22	
Toluene*	<0.050	0.050	08/27/2024	ND	2.04	102	2.00	7.61	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.35	106	6.00	7.35	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/27/2024	ND	448	112	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	08/27/2024	ND	188	94.0	200	3.41	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	199	99.4	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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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Celey D. Keene, Lab Director/Quality Manager



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

August 30, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/27/24 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/27/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN - LEA CO NM		

Sample ID: FL 1 @ 10' (H245214-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2024	ND	2.11	106	2.00	4.12	
Toluene*	<0.050	0.050	08/29/2024	ND	1.98	99.1	2.00	4.59	
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.01	101	2.00	4.46	
Total Xylenes*	<0.150	0.150	08/29/2024	ND	5.98	99.6	6.00	4.36	
Total BTEX	<0.300	0.300	08/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/29/2024	ND	416	104	400	3.77	

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	08/29/2024	ND	195	97.5	200	7.40	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	189	94.7	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/27/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW 38 E (H245214-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2024	ND	2.11	106	2.00	4.12		
Toluene*	<0.050	0.050	08/29/2024	ND	1.98	99.1	2.00	4.59		
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.01	101	2.00	4.46		
Total Xylenes*	<0.150	0.150	08/29/2024	ND	5.98	99.6	6.00	4.36		
Total BTEX	<0.300	0.300	08/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/29/2024	ND	416	104	400	3.77		

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	08/29/2024	ND	195	97.5	200	7.40		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	189	94.7	200	4.79		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/27/2024	Sampling Date:	08/26/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 61 B @ 6' (H245214-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2024	ND	2.11	106	2.00	4.12	
Toluene*	<0.050	0.050	08/29/2024	ND	1.98	99.1	2.00	4.59	
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.01	101	2.00	4.46	
Total Xylenes*	<0.150	0.150	08/29/2024	ND	5.98	99.6	6.00	4.36	
Total BTEX	<0.300	0.300	08/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/29/2024	ND	416	104	400	3.77	

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	08/29/2024	ND	195	97.5	200	7.40	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	189	94.7	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Robbie Runnels
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 20751 Project Owner: Permian Resources
Project Name: Outland 14-23 State 2BS 2H
Project Location: 32.486037, -103.445132
Sampler Name: Tania Felts
BILL TO ANALYSIS REQUEST
Chloride TPH (8015M) BTEX (8021B)
FOR LAB USE ONLY
Lab I.D. Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS
MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER
PRESERV.: ACID/BASE, ICE / COOL, OTHER
SAMPLING: DATE, TIME

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.

Relinquished By: [Signature] Date: 8-27-24 Time: 1455
Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechnv.com
REMARKS: Bush added 8/29/24 24hr
Delivered By: (Circle One) Observed Temp. °C = 3.8 Sample Condition Cool Intact [] Yes [] No
Corrected Temp. °C = 4.4 CHECKED BY: (Initials) Turnaround Time: Standard [X] Rush []
Bacteria (only) Sample Condition Cool Intact [] Yes [] No Observed Temp. °C
Thermometer ID #140 Correction Factor -0.6°C [] Yes [] No Corrected Temp. °C



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

August 29, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/28/24 14:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/28/2024	Sampling Date:	08/27/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 43 B @ 10' (H245243-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	2.19	110	2.00	2.05	
Toluene*	<0.050	0.050	08/28/2024	ND	2.24	112	2.00	0.850	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.28	114	2.00	0.786	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.80	113	6.00	0.630	
Total BTEX	<0.300	0.300	08/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/29/2024	ND	432	108	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	08/29/2024	ND	217	108	200	1.10	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	219	110	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 59.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/28/2024	Sampling Date:	08/27/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 47 B @ 7' (H245243-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2024	ND	2.19	110	2.00	2.05		
Toluene*	<0.050	0.050	08/28/2024	ND	2.24	112	2.00	0.850		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.28	114	2.00	0.786		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.80	113	6.00	0.630		
Total BTEX	<0.300	0.300	08/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/29/2024	ND	432	108	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	08/28/2024	ND	222	111	200	0.583		
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	229	114	200	0.598		
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/28/2024	Sampling Date:	08/27/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 82 B @ 10' (H245243-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2024	ND	2.19	110	2.00	2.05		
Toluene*	<0.050	0.050	08/28/2024	ND	2.24	112	2.00	0.850		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.28	114	2.00	0.786		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.80	113	6.00	0.630		
Total BTEX	<0.300	0.300	08/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/29/2024	ND	432	108	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	08/29/2024	ND	222	111	200	0.583		
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	229	114	200	0.598		
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND						

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/28/2024	Sampling Date:	08/27/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW 52 A (H245243-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	2.19	110	2.00	2.05	
Toluene*	<0.050	0.050	08/28/2024	ND	2.24	112	2.00	0.850	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.28	114	2.00	0.786	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.80	113	6.00	0.630	
Total BTEX	<0.300	0.300	08/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/29/2024	ND	432	108	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	08/29/2024	ND	222	111	200	0.583	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	229	114	200	0.598	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

August 30, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/29/24 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/29/2024	Sampling Date:	08/28/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 79 B @ 11' (H245255-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2024	ND	1.92	95.9	2.00	15.7	
Toluene*	<0.050	0.050	08/29/2024	ND	2.03	102	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.25	112	2.00	5.04	
Total Xylenes*	<0.150	0.150	08/29/2024	ND	6.86	114	6.00	4.25	
Total BTEX	<0.300	0.300	08/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/29/2024	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	08/29/2024	ND	204	102	200	1.54	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	195	97.7	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/29/2024	Sampling Date:	08/28/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW 36 B (H245255-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2024	ND	1.92	95.9	2.00	15.7	
Toluene*	<0.050	0.050	08/29/2024	ND	2.03	102	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.25	112	2.00	5.04	
Total Xylenes*	<0.150	0.150	08/29/2024	ND	6.86	114	6.00	4.25	
Total BTEX	<0.300	0.300	08/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/29/2024	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	08/29/2024	ND	204	102	200	1.54	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	195	97.7	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/29/2024	Sampling Date:	08/28/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW 37 B (H245255-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2024	ND	1.92	95.9	2.00	15.7	
Toluene*	<0.050	0.050	08/29/2024	ND	2.03	102	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.25	112	2.00	5.04	
Total Xylenes*	<0.150	0.150	08/29/2024	ND	6.86	114	6.00	4.25	
Total BTEX	<0.300	0.300	08/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/29/2024	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	08/29/2024	ND	204	102	200	1.54	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	195	97.7	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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

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

August 30, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 08/29/24 15:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/29/2024	Sampling Date:	08/29/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW 61 B (H245284-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2024	ND	1.96	97.8	2.00	2.34	
Toluene*	<0.050	0.050	08/29/2024	ND	2.03	101	2.00	1.61	
Ethylbenzene*	<0.050	0.050	08/29/2024	ND	2.07	104	2.00	0.00655	
Total Xylenes*	<0.150	0.150	08/29/2024	ND	6.43	107	6.00	0.556	
Total BTEX	<0.300	0.300	08/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/30/2024	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	08/30/2024	ND	225	112	200	2.10	
DRO >C10-C28*	<10.0	10.0	08/30/2024	ND	230	115	200	6.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Robbie Runnels
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 20751 Project Owner: Permian Resources
Project Name: Outland 14-23 State 2BS 2H
Project Location: 32.486037, -103.445132
Sampler Name: Tania Felts
BILL TO: P.O. #: Company: Permian Resources Attn: Montgomery Floyd Address: City: State: Zip: Phone #: Fax #:
ANALYSIS REQUEST: Chloride, TPH (8015M), BTEX (8021B)
Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), and analysis results for Chloride, TPH, BTEX.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.

Relinquished By: [Signature] Date: 8-29-24 Time: 1513
Received By: [Signature] Date: Received By:
Verbal Result: [] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechnv.com
REMARKS: RUSH SAMPLES - 24 HOUR
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C: -1.9°C Corrected Temp. °C: -2.5°C
Sample Condition Cool Intact [] Yes [] No
CHECKED BY: (Initials) [Signature]
Turnaround Time: Standard [] Rush [X]
Thermometer ID #140 Correction Factor -0.6°C
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C



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

September 11, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 09/06/24 8:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	09/06/2024	Sampling Date:	09/04/2024
Reported:	09/11/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN - LEA CO NM		

Sample ID: MERCHANT OUTLAND PIT (H245395-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2024	ND	1.91	95.3	2.00	2.29	
Toluene*	<0.050	0.050	09/09/2024	ND	1.88	93.8	2.00	0.525	
Ethylbenzene*	<0.050	0.050	09/09/2024	ND	1.91	95.5	2.00	0.939	
Total Xylenes*	<0.150	0.150	09/09/2024	ND	5.69	94.9	6.00	0.901	
Total BTEX	<0.300	0.300	09/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/09/2024	ND	400	100	400	7.69	

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	09/06/2024	ND	202	101	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	191	95.3	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane 58.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.5 % 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

Notes and Definitions

- 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Etech Environmental & Safety Solutions, Inc.), project details (Project Manager: Robbie Runnels), and a table for analysis request with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling. Includes handwritten entries like 'H245395' and 'Merchant Outland Pit'.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Form for Relinquished/Received By, Verbal Result, and Turnaround Time. Includes handwritten signatures, dates (9/6/24), and temperatures (-5.0C, -6.2C).



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

October 16, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/14/24 15:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/14/2024	Sampling Date:	10/14/2024
Reported:	10/16/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS - 98A @ 13' (H246242-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2024	ND	2.03	102	2.00	2.65	
Toluene*	0.083	0.050	10/15/2024	ND	2.04	102	2.00	1.89	
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94	
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59	
Total BTEX	<0.300	0.300	10/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	10/15/2024	ND	400	100	400	3.92	

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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/14/2024	Sampling Date:	10/14/2024
Reported:	10/16/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS - 99A @ 12' (H246242-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2024	ND	2.03	102	2.00	2.65	
Toluene*	<0.050	0.050	10/15/2024	ND	2.04	102	2.00	1.89	
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94	
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59	
Total BTEX	<0.300	0.300	10/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	10/15/2024	ND	400	100	400	3.92	

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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/14/2024	Sampling Date:	10/14/2024
Reported:	10/16/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 111 @ 12' (H246242-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/15/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/15/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59		
Total BTEX	<0.300	0.300	10/15/2024	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	<16.0	16.0	10/15/2024	ND	400	100	400	3.92		

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	10/15/2024	ND	216	108	200	8.09		
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND						

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/14/2024	Sampling Date:	10/14/2024
Reported:	10/16/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 112 @ 13' (H246242-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2024	ND	2.03	102	2.00	2.65	
Toluene*	<0.050	0.050	10/15/2024	ND	2.04	102	2.00	1.89	
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94	
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59	
Total BTEX	<0.300	0.300	10/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	10/15/2024	ND	400	100	400	3.92	

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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/14/2024	Sampling Date:	10/14/2024
Reported:	10/16/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 113 @ 12' (H246242-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/15/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/15/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	10/15/2024	ND	400	100	400	3.92		

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	10/15/2024	ND	216	108	200	8.09		
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND						

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/14/2024	Sampling Date:	10/14/2024
Reported:	10/16/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 114 @ 12' (H246242-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2024	ND	2.03	102	2.00	2.65	
Toluene*	<0.050	0.050	10/15/2024	ND	2.04	102	2.00	1.89	
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.12	106	2.00	1.94	
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.35	106	6.00	1.59	
Total BTEX	<0.300	0.300	10/15/2024	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	10/15/2024	ND	400	100	400	3.92	

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	10/15/2024	ND	216	108	200	8.09	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/14/2024	Sampling Date:	10/14/2024
Reported:	10/16/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS - 24B @ 5' (H246242-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.35	106	6.00	1.59		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	128	16.0	10/15/2024	ND	400	100	400	3.92		

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	10/15/2024	ND	216	108	200	8.09		
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND						

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/14/2024	Sampling Date:	10/14/2024
Reported:	10/16/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS - 108 @ 2' (H246242-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.35	106	6.00	1.59		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	272	16.0	10/15/2024	ND	400	100	400	3.92		

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	10/15/2024	ND	216	108	200	8.09		
DRO >C10-C28*	13.8	10.0	10/15/2024	ND	199	99.7	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND						

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/14/2024	Sampling Date:	10/14/2024
Reported:	10/16/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW - 32 B (H246242-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	2.65		
Toluene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.89		
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.12	106	2.00	1.94		
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.35	106	6.00	1.59		
Total BTEX	<0.300	0.300	10/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	416	16.0	10/15/2024	ND	400	100	400	3.92		

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	10/15/2024	ND	216	108	200	8.09		
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	199	99.7	200	10.7		
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND						

Surrogate: 1-Chlorooctane 60.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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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

2/2

Company Name: Etech Environmental Safety Solutions LLC				BILL TO				ANALYSIS REQUEST															
Project Manager: Joel Lowry				P.O. #:																			
Address: 2617 W Marland				Company: Permian Resources																			
City: Hobbs State: NM Zip: 88240				Attn:																			
Phone #: 575-631-1366 Fax #:				Address:																			
Project #: 20751 Project Owner: Permian Resources				City:																			
Project Name: Outland 14-23 state 2BS 2H				State: Zip:																			
Project Location: 32.486037, -103.4415132				Phone #:																			
Sampler Name: Addison Elston				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.		SAMPLING													
						GROUNDWATER		ACID/BASE:		DATE		TIME											
						WASTEWATER		ICE / COOL															
						SOIL		OTHER:															
						OIL		OTHER:															
						SLUDGE																	
						OTHER:																	
1440242		CS-98A @ 13'		C	1	X		X		10-14-24		07:00		X		X		X					
1		CS-99A @ 12'		C	1	X		X		10-14-24		07:20		X		X		X					
2		CS11 @ 12'		C	1	X		X		10-14-24		07:45		X		X		X					
3		CS12 @ 13'		C	1	X		X		10-14-24		08:15		X		+		+					
4		CS113 @ 12'		C	1	X		X		10-14-24		08:30		X		X		X					
5		CS114 @ 12'		C	1	X		X		10-14-24		08:45		X		X		X					
6		CS-24B @ 5'		C	1	X		X		10-14-24		10:15		X		X		X					
7		CS-108 @ 2'		C	1	X		X		10-14-24		10:20		X		X		X					
8		SW-32B		C	1	X		X		10-14-24		10:45		X		X		X					
9																							

Chlorides
BTEX
TPH

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Relinquished By: Addison Elston		Date: 10-14-24	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: 1503	Received By:	All Results are emailed. Please provide Email address:	
		Date:		REMARKS: Bill Rush charges to Etech	
		Time:		PM @ etechenv.com, addison@etechenv.com	
Delivered By: (Circle One)		Observed Temp. °C	Sample Condition	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:		Corrected Temp. °C	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #140	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
			Checked By: [Signature]	Correction Factor °C	Observed Temp. °C
					Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

October 21, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/17/24 16:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/17/2024	Sampling Date:	10/16/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 28 A @ 12' (H246372-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.18	109	2.00	1.04	
Toluene*	<0.050	0.050	10/18/2024	ND	2.09	105	2.00	1.12	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.06	103	2.00	1.77	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.04	101	6.00	2.07	
Total BTEX	<0.300	0.300	10/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	176	16.0	10/18/2024	ND	432	108	400	3.77	

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	10/18/2024	ND	200	100	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	209	105	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/17/2024	Sampling Date:	10/16/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 29 A @ 12' (H246372-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.18	109	2.00	1.04	
Toluene*	<0.050	0.050	10/18/2024	ND	2.09	105	2.00	1.12	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.06	103	2.00	1.77	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.04	101	6.00	2.07	
Total BTEX	<0.300	0.300	10/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	144	16.0	10/18/2024	ND	432	108	400	3.77	

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	10/18/2024	ND	200	100	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	209	105	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/17/2024	Sampling Date:	10/16/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 105 @ 29' (H246372-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.18	109	2.00	1.04	
Toluene*	<0.050	0.050	10/18/2024	ND	2.09	105	2.00	1.12	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.06	103	2.00	1.77	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.04	101	6.00	2.07	
Total BTEX	<0.300	0.300	10/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/18/2024	ND	432	108	400	3.77	

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	10/18/2024	ND	200	100	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	209	105	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/17/2024	Sampling Date:	10/16/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 115 @ 12' (H246372-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.18	109	2.00	1.04	
Toluene*	<0.050	0.050	10/18/2024	ND	2.09	105	2.00	1.12	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.06	103	2.00	1.77	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.04	101	6.00	2.07	
Total BTEX	<0.300	0.300	10/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	10/18/2024	ND	432	108	400	3.77	

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	10/18/2024	ND	200	100	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	209	105	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:

Etech Environmental & Safety Solutions
 ROBBIE RUNNELS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/17/2024	Sampling Date:	10/16/2024
Reported:	10/21/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN - LEA CO NM		

Sample ID: CS 116 @ 12' (H246372-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2024	ND	2.18	109	2.00	1.04	
Toluene*	<0.050	0.050	10/18/2024	ND	2.09	105	2.00	1.12	
Ethylbenzene*	<0.050	0.050	10/18/2024	ND	2.06	103	2.00	1.77	
Total Xylenes*	<0.150	0.150	10/18/2024	ND	6.04	101	6.00	2.07	
Total BTEX	<0.300	0.300	10/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/18/2024	ND	432	108	400	3.77	

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	10/18/2024	ND	200	100	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/18/2024	ND	209	105	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	10/18/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 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

Notes and Definitions

- 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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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Etech Environmental & Safety Solutions, Inc.), project details (Project Manager: Robbie Runnels, Project Name: Outland 14-23 State 2BS 2H), and a table for analysis request with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling. The table includes handwritten entries for samples CS 28 A @ 12', CS 29 A @ 12', CS 105 @ 29', CS 115 @ 12', and CS 116 @ 12'.

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Bottom section of the form containing 'Relinquished By' and 'Received By' signatures, 'Remarks' (Bill Rush to Etech please!), and 'Delivered By' information with temperature readings and sample condition checkboxes.



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

October 23, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: OUTLAND 14-23 STATE 2BS 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/22/24 8:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/22/2024	Sampling Date:	10/16/2024
Reported:	10/23/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW-54B (H246418-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2024	ND	1.94	97.2	2.00	5.59	
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55	
Total BTEX	<0.300	0.300	10/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 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:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/22/2024	Sampling Date:	10/16/2024
Reported:	10/23/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW-55B (H246418-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2024	ND	1.94	97.2	2.00	5.59	
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55	
Total BTEX	<0.300	0.300	10/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 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:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/22/2024	Sampling Date:	10/16/2024
Reported:	10/23/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW-13B (H246418-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2024	ND	1.94	97.2	2.00	5.59		
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85		
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89		
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55		
Total BTEX	<0.300	0.300	10/22/2024	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	160	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2		
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6		
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND						

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/22/2024	Sampling Date:	10/16/2024
Reported:	10/23/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW-14B (H246418-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2024	ND	1.94	97.2	2.00	5.59		
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85		
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89		
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55		
Total BTEX	<0.300	0.300	10/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2		
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6		
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND						

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/22/2024	Sampling Date:	10/16/2024
Reported:	10/23/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW-62B (H246418-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2024	ND	1.94	97.2	2.00	5.59	
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55	
Total BTEX	<0.300	0.300	10/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/22/2024	Sampling Date:	10/16/2024
Reported:	10/23/2024	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE 2BS 2H	Sampling Condition:	Cool & Intact
Project Number:	20751	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN - LEA CO NM		

Sample ID: SW-63B (H246418-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2024	ND	1.94	97.2	2.00	5.59	
Toluene*	<0.050	0.050	10/22/2024	ND	2.03	102	2.00	5.85	
Ethylbenzene*	<0.050	0.050	10/22/2024	ND	2.15	107	2.00	6.89	
Total Xylenes*	<0.150	0.150	10/22/2024	ND	6.41	107	6.00	7.55	
Total BTEX	<0.300	0.300	10/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/22/2024	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	10/22/2024	ND	238	119	200	14.2	
DRO >C10-C28*	<10.0	10.0	10/22/2024	ND	242	121	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	10/22/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Notes and Definitions

- 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 LCS/D recovery and/or RPD values.
- 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO										ANALYSIS REQUEST																			
Project Manager: <u>Joel Lowry</u>		P.O. #:										Chloride TPH (8015M) BTEX (8021B)																			
Address: P.O. Box 301		Company: <u>Permian Resources</u>																													
City: Lovington State: NM Zip: 88260		Attn: <u>Montgomery Floyd</u>																													
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address:																													
Project #: <u>20751</u> Project Owner: <u>Permian Resources</u>		City:																													
Project Name: <u>Outland 14-23 state ABS 24</u>		State: Zip:																													
Project Location: <u>32.486037, -103.445132</u>		Phone #:																													
Sampler Name: <u>Miguel Ramirez</u>		Fax #:																													
FOR LAB USE ONLY		MATRIX										PRESERV.										SAMPLING									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME																	
<u>12010418</u>																															
<u>1</u>	<u>SW-54B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>13:00</u>	<u>X</u>	<u>X</u>	<u>X</u>														
<u>2</u>	<u>SW-55B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>13:30</u>	<u>X</u>	<u>X</u>	<u>X</u>														
<u>3</u>	<u>SW-13B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>14:00</u>	<u>X</u>	<u>X</u>	<u>X</u>														
<u>4</u>	<u>SW-14B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>14:30</u>	<u>X</u>	<u>X</u>	<u>X</u>														
<u>5</u>	<u>SW-62B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>15:00</u>	<u>X</u>	<u>X</u>	<u>X</u>														
<u>6</u>	<u>SW-63B</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>10/16/24</u>	<u>15:30</u>	<u>X</u>	<u>X</u>	<u>X</u>														
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. No event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																															
Relinquished By: <u>[Signature]</u>					Date: <u>10-20-24</u>					Received By: <u>[Signature]</u>					Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																
Relinquished By:					Date: <u>8/11</u>					Received By:					Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																
Delivered By: (Circle One) <u>UPS</u>					Sample Condition					CHECKED BY: (Initials) <u>AD</u>					REMARKS: <u>24 hr Rush please! Bill rush to Etech</u> Please email results to pm@etechenv.com.																
Sampler - UPS - Bus - Other: <u>UPS / #100</u>					Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No																										

FORM-006
Revision 1.0

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

Appendix D

Photographic Log

Photographic Log

Photo Number: 1	 <p>10/24/24, 7:44 AM +32.485909, -103.445216 NM, Eunice</p>
Photo Direction: Northeast	
Photo Description: View of excavation activities.	

Photo Number: 2	 <p>Oct 9, 2024 at 11:33:41 AM</p>
Photo Direction: West	
Photo Description: View of excavation activities.	

Photographic Log

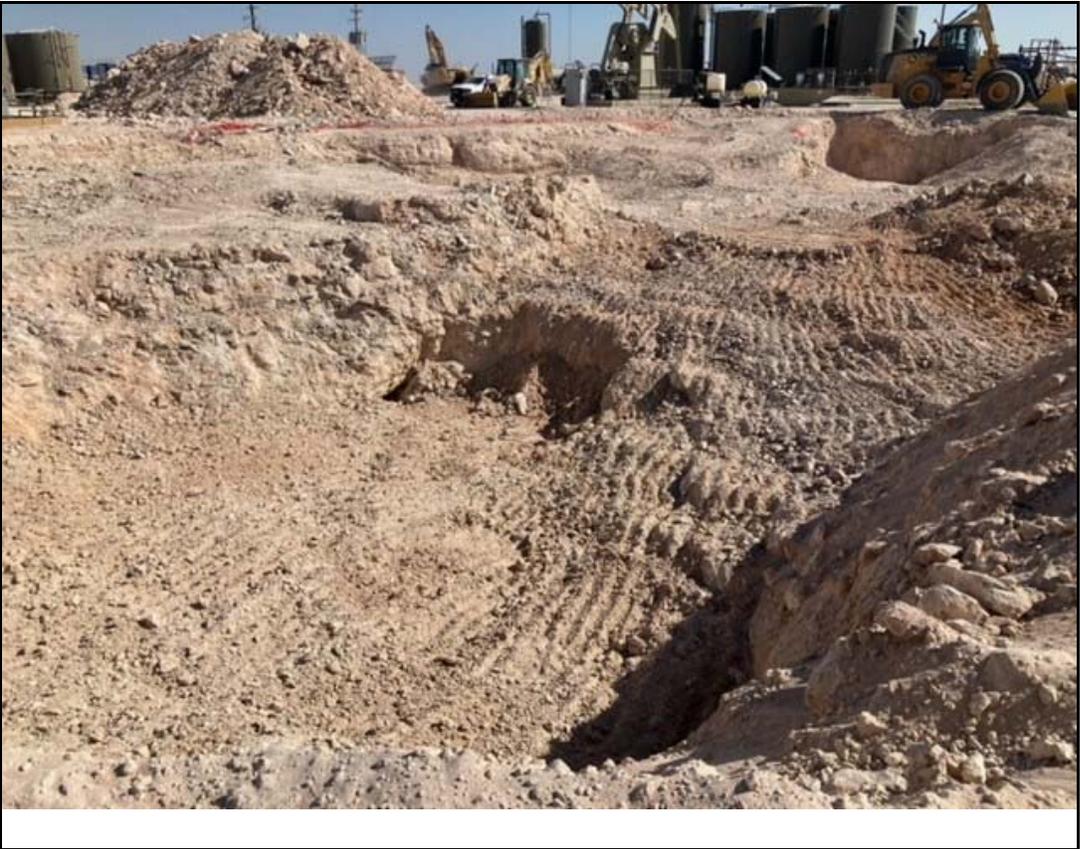
Photo Number: 3	
Photo Direction: North	
Photo Description: View of excavation activities.	

Photo Number: 4	
Photo Direction: East	
Photo Description: View of excavation activities.	

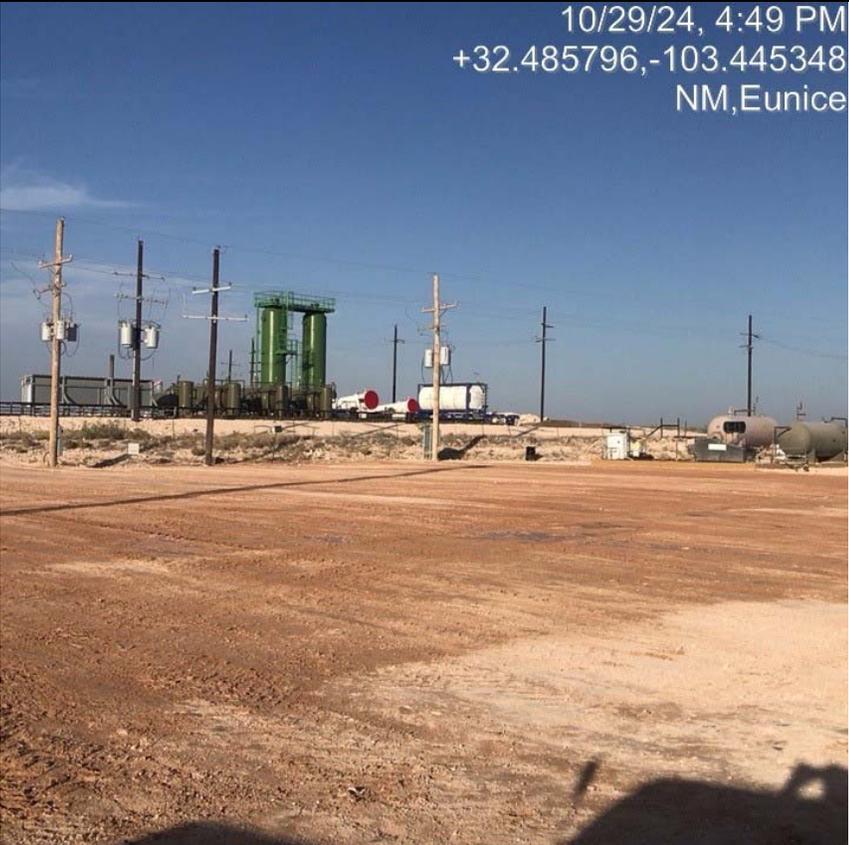
Photographic Log

Photo Number: 5	 <p>Oct 25, 2024 at 12:19:35 PM Eunice NM 88231 United States</p>
Photo Direction: Northwest	
Photo Description: View of backfilling and compacting activities.	

Photo Number: 6	 <p>10/18/24, 9:55 AM +32.486108, -103.445185 NM, Eunice</p>
Photo Direction: Southeast	
Photo Description: View of portion of the excavated area.	

Photographic Log

Photo Number: 7	 <p>10/29/24, 4:49 PM +32.485796,-103.445348 NM,Eunice</p>
Photo Direction: North	
Photo Description: View of the affected area after remediation activities.	

Photo Number: 8	 <p>10/29/24, 4:49 PM +32.485796,-103.445348 NM,Eunice</p>
Photo Direction: Northeast	
Photo Description: View of the affected area after remediation activities.	

Appendix E

Regulatory Correspondence

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	293175	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	12/11/2023		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	2,500
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/13/2023
Time sampling will commence	09:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Kenny Han 575-988-8856
Please provide any information necessary for navigation to sampling site	32.486074,-103.445038

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

khart (12/11/2023), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	294029	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	12/13/2023		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/15/2023
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	tyler kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	32.486074,-103.445038

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

khart (12/13/2023), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	323678	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/20/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tyler Kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	coordinates 32.48604, -103.44496

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

khart (3/15/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	323587	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/19/2023
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Tyler Kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	32.48613,-103.44518

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

khart (3/15/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	294838	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	12/14/2023		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	8,000
What is the estimated number of samples that will be gathered	150
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/18/2023
Time sampling will commence	09:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Unknown at this time
Please provide any information necessary for navigation to sampling site	see gps

Comments

No comments found for this submission.

Conditions

Summary: *khart (12/14/2023)*, Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	323682	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/19/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	tyler kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	coordinates 32.48604, -103.44496

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

khart (3/15/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	323684	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/20/2024
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Tyler Kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	32.48613,-103.44518

[Searches](#)

[Operator Data](#)

[Hearing Fee Application](#)

Comments

No comments found for this submission.

Conditions

Summary:

khart (3/15/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	323685	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/21/2023
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Tyler Kimball 432-582-4051
Please provide any information necessary for navigation to sampling site	32.48613,-103.44518

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

khart (3/15/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	323687	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/15/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/22/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	TYLER KIMBALL 432-582-4051
Please provide any information necessary for navigation to sampling site	coordinates 32.48604, -103.44496

[Searches](#)

[Operator Data](#)

[Hearing Fee Application](#)

Comments

No comments found for this submission.

Conditions

Summary:

khart (3/15/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	326236	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/25/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/27/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	TYLER KIMBALL 432-582-4051
Please provide any information necessary for navigation to sampling site	coordinates 32.48604, -103.44496

Comments

No comments found for this submission.

Conditions

Summary:

khart (3/25/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	326237	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	03/25/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/28/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	TYLER KIMBALL 432-582-4051
Please provide any information necessary for navigation to sampling site	coordinates 32.48604, -103.44496

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

khart (3/25/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	324572	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	04/10/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	12,000
What is the estimated number of samples that will be gathered	60
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/12/2024
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tyler Kimball (432)582-40541
Please provide any information necessary for navigation to sampling site	GPS: 32.486196, -103.445067

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (4/10/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	376523	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/28/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (8/22/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	349842	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	05/31/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/03/2024
Time sampling will commence	09:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Becky Haskell 432-766-1918
Please provide any information necessary for navigation to sampling site	32.48612,-103.44466

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mflloyd (5/31/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	376504	Districts:	Hobbs
Operator:	[372165] Permian Resources Operating, LLC	Counties:	Lea
Description:	Permian Resources Operating, LLC [372165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	2,600
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/26/2024
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Tania Felts 432.313.1566
Please provide any information necessary for navigation to sampling site	32.486014, -103.445046

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (8/22/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	376522	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/26/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (8/22/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	376526	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/30/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Comments

No comments found for this submission.

Conditions

Summary: *mtaylorpr (8/22/2024)*, Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	376527	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/02/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (8/22/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	376528	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/04/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (8/22/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	391267	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	10/09/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	4,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/16/2024
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Miguel Ramirez, 432-282-9140
Please provide any information necessary for navigation to sampling site	GPS: 32.485716 , -103.444967

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (10/9/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	391259	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	10/09/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	4,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/14/2024
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Miguel Ramirez, 432-282-9140
Please provide any information necessary for navigation to sampling site	GPS: 32.485716, -103.444967

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (10/9/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	376536	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/13/2024
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (8/22/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	376533	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/11/2024
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (8/22/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	376531	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/09/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (8/22/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	376530	Districts:	Hobbs
Operator:	[331165] Earthstone Operating, LLC	Counties:	Lea
Description:	Earthstone Operating, LLC [331165] , OUTLAND 14 23 STATE 2BS #2H , nAPP2328345879		
Status:	APPROVED		
Status Date:	08/22/2024		
References (2):	30-025-44157, nAPP2328345879		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2328345879
Incident Name	NAPP2328345879 OUTLAND 14 23 STATE 2BS #2H @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source

Site Name	OUTLAND 14 23 STATE 2BS #2H
Date Release Discovered	09/25/2023
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	26,000
What is the estimated number of samples that will be gathered	85
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/06/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tania Felts 431.313.1566
Please provide any information necessary for navigation to sampling site	GPS: 32.486014, -103.445046

Searches

Operator Data

Hearing Fee Application

Comments

No comments found for this submission.

Conditions

Summary:

mtaylorpr (8/22/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1),(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Incident ID	
District RP	1RP5260
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_ >100 _ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. <input checked="" type="checkbox"/> Field data <input checked="" type="checkbox"/> Data table of soil contaminant concentration data <input checked="" type="checkbox"/> Depth to water determination <input checked="" type="checkbox"/> Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release <input checked="" type="checkbox"/> Boring or excavation logs <input checked="" type="checkbox"/> Photographs including date and GIS information <input checked="" type="checkbox"/> Topographic/Aerial maps <input checked="" type="checkbox"/> Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Site Assessment Report and Proposed Remediation Workplan

Chisholm Energy Operating, LLC Outland 14-23 State Com

Lea County, New Mexico
Unit Letter "C/D", Section 14, Township 21 South, Range 34 West
Latitude 32.48571 North, Longitude 103.44495 West
NMOCD Reference No. 1RP-5260

Prepared By:

Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260



Daniel Dominguez



Joel W. Lowry



Midland • San Antonio • Lubbock • Lovington • Lafayette

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APPENDICES

- Appendix A - Depth to Groundwater Information
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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Chisholm Energy Operating, LLC, has prepared this Report for the Release Site known as the Outland 14-23 State Com. Details of the release are summarized below:

Location of Release Source				
Latitude:	32.48571	Longitude:	-103.44495	
Provided GPS are in WGS84 format.				
Site Name:	Outland 14-23 State Com	Site Type:	Tank Battery	
Date Release Discovered:	10/21/2018	API # (if applicable):	30-025-44157	
Unit Letter	Section	Township	Range	County
"C/D"	14	21S	34W	Lea
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)				
Nature and Volume of Release				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	20-30	Volume Recovered (bbls)	10
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	
Cause of Release: While filling Frac tanks to prepare for completion operations for the 2H and 3H wells, a valve on the back of the tank was open which allowed water to escape from the tank.				
Initial Response				
<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"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices				
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	Constituent	Method	Limit
>100	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 INITIAL SITE ASSESSMENT

On **February 12, 2019**, Etech conducted an initial site assessment. During the initial site assessment, four (4) surface samples (SP1 through SP4) were collected from within the release margins. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Analytical results indicated chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil sample SP1, which exhibited a chloride concentration of 32,400 mg/kg. Analytical results indicated TPH concentrations exceeded the NMOCD Closure Criteria in soil samples SP1, SP3 and SP4. A "Site & Sample Location Map" is provided as Figure 3. Field data and soil profile logs, if applicable, are provided as Appendix B.

On **August 2, 2019**, Etech revisited the Site in an effort to further characterize the Site. During the site visit, fourteen (14) soil samples (SP-1R, SP3-#, SP4-R, EH-1 @ Surf., EH-1 @ 1', SH1 @ Surf., SH1 @ 1', SH2 @ Surf., SH2 @ 1', WH1 @ Surf., SH1 @ 1', NH1 @ Surf., NH1 @ 1', NH2 @ Surf. and NH2 @ 1') were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Analytical results indicated chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples SH2 @ Surf., which exhibited a chloride concentration of 22,800 mg/kg. Analytical results indicated TPH concentrations exceeded the NMOCD Closure Criteria in soil samples SP3-R, EH 1 @ Surf., SH1 @ Surf., SH2 @ Surf., WH1 @ Surf., NH1 @ Surf., and NH2 @ Surf. Based on laboratory analytical results, further delineation was required in the areas characterized by soil samples SP3-R, EH 1 @ Surf., SH1 @ Surf., SH2 @ Surf., WH1 @ Surf., NH1 @ Surf., and NH2 @ Surf.

On **September 16, 2019**, Etech revisited the Site in an effort to further delineate the affected areas characterized by soil samples SP3-R, EH 1 @ Surf., SH1 @ Surf., SH2 @ Surf., WH1 @ Surf., NH1 @ Surf., and NH2 @ Surf. During the site visit, twelve (12) soil samples (SP3b @ 2', SP3b @ 4', SP3b @ 6', SP3b @ 8', SP3b @ 10', SP3b @ 11', SH-1b @ Surf., SH-2b @ Surf.,) were collected and submitted to the laboratory for analysis of TPH and/or chloride concentrations. Laboratory analytical results indicated TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples SP3b @ 2', SP3b @ 4', and SP3b @ 6', which exhibited TPH concentrations of 43,650, 18,170 and 2,500 mg/kg, respectively.

Based on field observations and field test data, **thirty-one (31)** delineation soil samples were submitted to the laboratory for analysis of BTEX, TPH and/or Chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 8 ft. bgs and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Chisholm Energy Operating, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria in the areas characterized by sample points SP1 and SP4 to a depth of approximately 1 ft. bgs and sample point SP3/SP3b to a depth of approximately 8 ft. bgs.
- The floor and sidewalls of the excavated area will be advanced until laboratory analytical results indicated impacted soil affected above the NMOCD Closure Criteria has been removed.
- Excavated material will be temporarily stockpiled on-site, then transported to an NMOCD-approved disposal facility.
- Upon excavating impacted soil affected above the NMOCD Closure Criteria, collect the requisite excavation confirmation soil samples.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted "like" material.
- Excavation backfill will be contoured to match the surrounding topography.
- Upon completion of remediation activities, prepare a Remediation Summary and Site Closure Request detailing remediation activities and the results of confirmation soil samples.

6.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear ft. A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **300 square feet**. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of the Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **400 cubic yards** is in need of removal.

8.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Plan to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Basis has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Chisholm Energy Operating, LLC. Use of the information contained in this report is prohibited within the consent of Etech and/or Chisholm Energy Operating, LLC.

10.0 DISTRIBUTION

Chisholm Energy Operating, LLC

801 Cherry St.

Suite 1200

FT Worth, TX 76102

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

1625 N. French Drive

Hobbs, NM 88240

Hobbs Field Office

New Mexico State Land Office

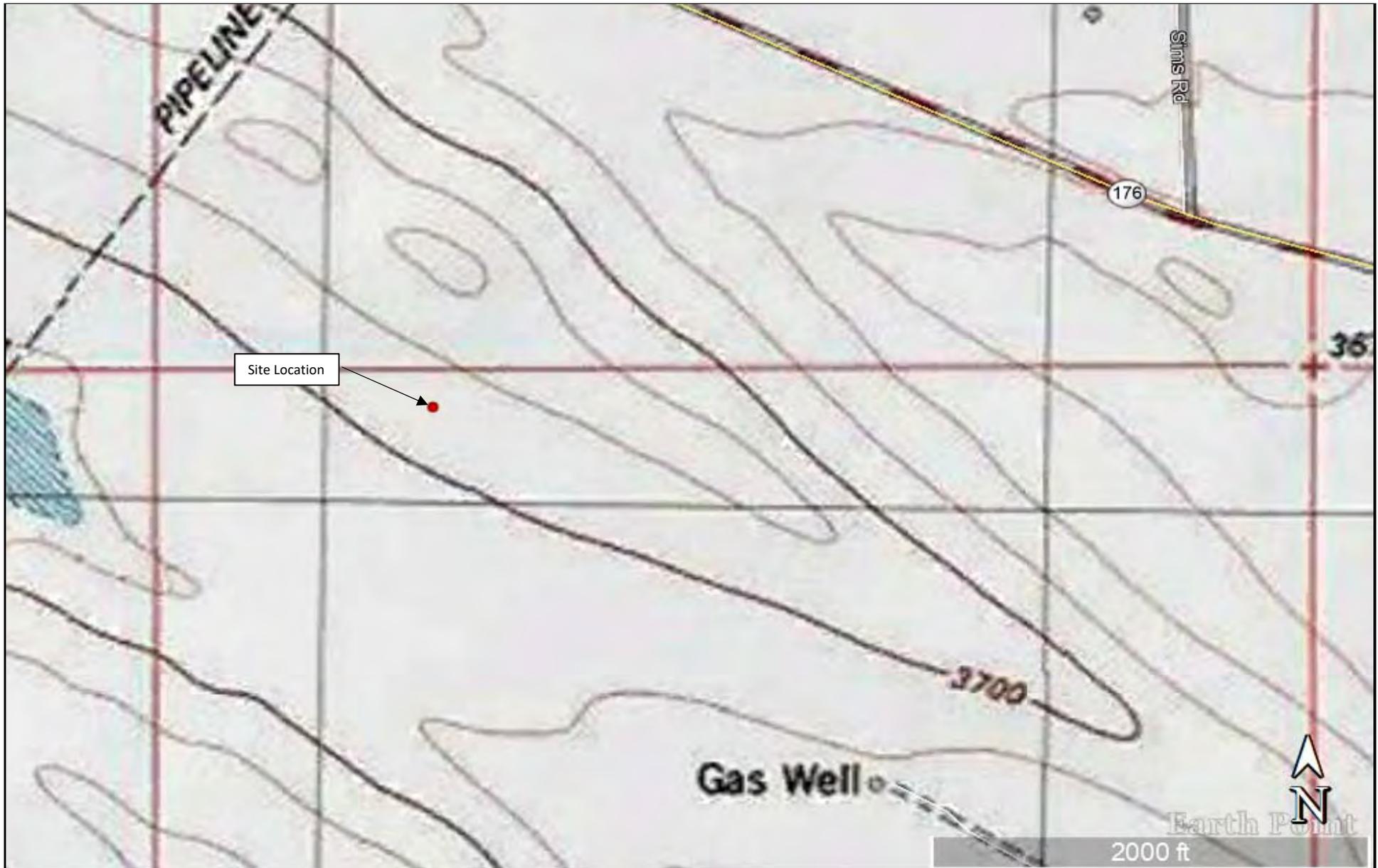
2827 North Dal Paso Street

Suite 117

Hobbs, NM 88240

(Electronic Submission)

Figure 1 Topographic Map



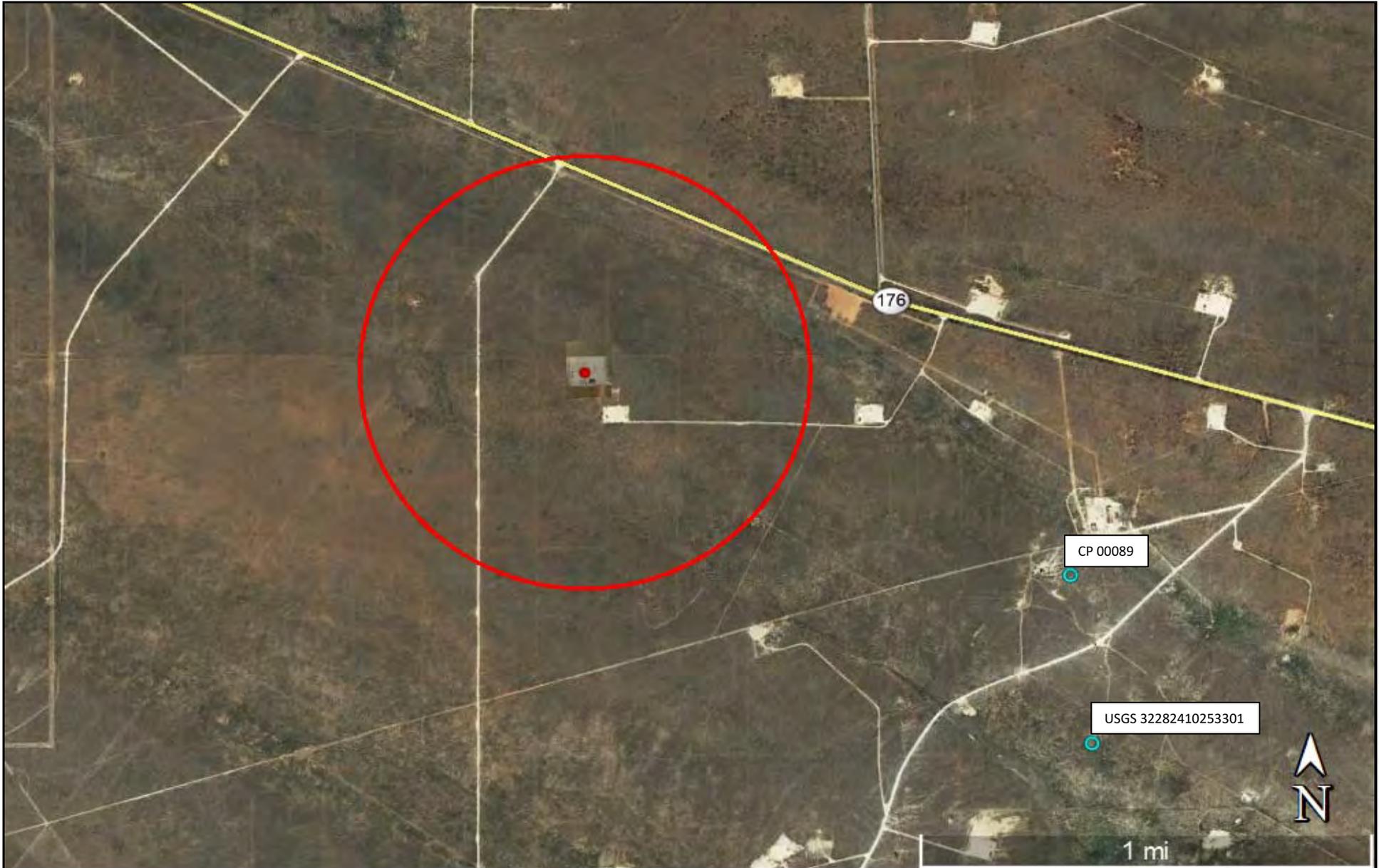
Legend:
● Site Location

Figure 1
Topographic Map
Chisholm Energy Operating, LLC
Outland 14-23 State Com
GPS: 32.48571, -103.44495
Lea County

ETECH 
Environmental & Safety Solutions, Inc.

Drafted: Checked: jwl Date: 9/17/19

Figure 2 Aerial Proximity Map



Legend:

●	Site Location
○	Fresh Water Well
○	Half Mile Radius

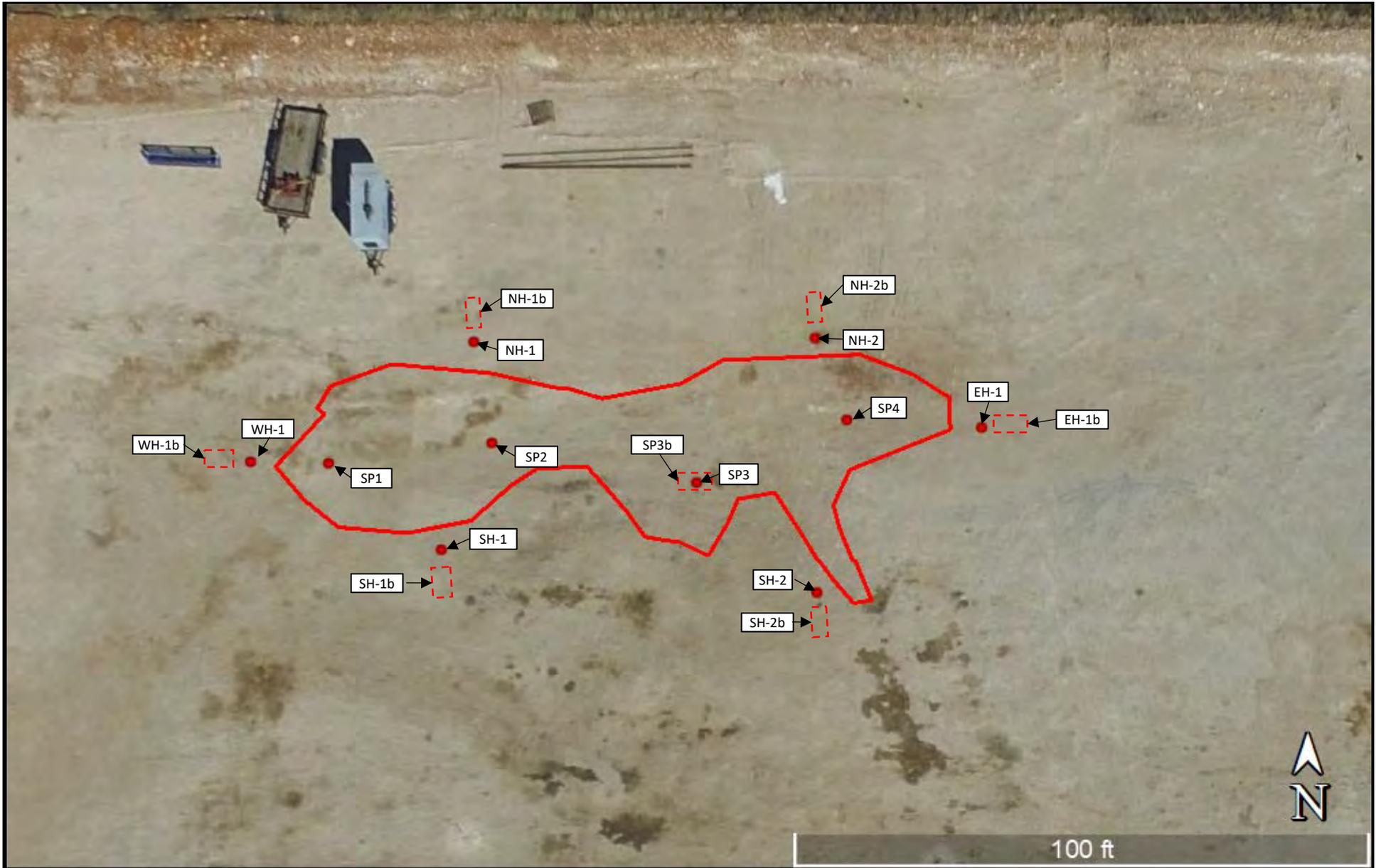
Figure 2
Aerial Map
Chisholm Energy Operating, LLC
Outland 14-23 State Com
GPS: 32.48571, -103.44495
Lea County

ETECH 
Environmental & Safety Solutions, Inc.

Drafted: Checked: jwl Date: 9/17/19

Figure 3

Site and Sample Location Map



Legend:

- Sample Point
- Affected Area
- Test Trench

Figure 3
 Site and Sample Location Map
 Chisholm Energy Operating, LLC
 Outland 14-23 State Com
 GPS: 32.48571, -103.44495
 Lea County




Drafted: Checked: jwl Date: 9/17/19

Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

**TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
Chisholm Energy Operating, LLC
Outland 14-23 State Com
NMOCD Ref. #: 1RP-5260**

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1	2/12/19	Surface	In-Situ	<0.050	0.35	<100	19,400	19,400	677	20,077	32,400
SP2	2/12/19	Surface	In-Situ	<0.050	<0.300	<10.0	682	682	441	1,123	2,080
SP3	2/12/19	Surface	In-Situ	<0.050	<0.300	<10.0	1,600	1,600	768	2,368	6,560
SP4	2/12/19	Surface	In-Situ	<0.050	<0.300	<50.0	12,300	12,300	8,840	21,140	8,130
SP1-R	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	201	201	16.6	217.6	3,720
SP3-R	8/2/19	1'	In-Situ	<0.050	8.78	355	17800	18,155	1,080	19,235	3,680
SP4-R	8/2/19	1'	In-Situ	<0.050	0.487	<10.0	45.1	45.1	16.3	61.4	592
EH1	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	4120	4,120	2,120	6,240	2,080
EH1	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	10.9	10.9	160
SH1	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	2,910	2,910	756	3,666	1,250
SH1	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SH2	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	3,660	3,660	1,190	4,850	22,800
SH2	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,640
WH1	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	2,390	2,390	597	2,987	19,600
WH1	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
NH1	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	6,180	6,180	427	6,607	5,520
NH1	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
NH2	8/2/19	Surface	In-Situ	<0.050	<0.300	<10.0	1,770	1,770	883	2,653	3,640
NH2	8/2/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP3b@2'	9/16/19	2'	In-Situ	--	--	250	38,000	38,250	5,400	43,650	--
SP3b@4'	9/16/19	4'	In-Situ	--	--	170	18,000	18,170	<4,600 ^D	18,170	3,200
SP3b@6'	9/16/19	6'	In-Situ	--	--	<4.8	2,500	2,500	<480 ^D	2,500	--
SP3b@8'	9/16/19	8'	In-Situ	--	--	<4.9	430	430	62	492	--
SP3b@10'	9/16/19	10'	In-Situ	--	--	<4.9	320	320	190	510	--
SP3b@11'	9/16/19	11'	In-Situ	--	--	<4.9	<9.3	<14.2	<47	<61.2	190
SH-1b@surf	9/16/19	Surface	In-Situ	--	--	<4.8	11	11	<47	11	--
SH-2b@surf	9/16/19	Surface	In-Situ	--	--	<4.7	33	33	<50	33	500
NH-1b@surf	9/16/19	Surface	In-Situ	--	--	<5.0	28	28	<48	28	--
NH-2b@surf	9/16/19	Surface	In-Situ	--	--	<4.9	24	24	<49	24	--
EH-1b@surf	9/16/19	Surface	In-Situ	--	--	<4.7	12	12	<47	12	--
WH-1b@surf	9/16/19	Surface	In-Situ	--	--	<4.8	18	18	<49	18	490
Closure Criteria				10	50	-	-	1,000	-	2,500	20,000

NOTES:

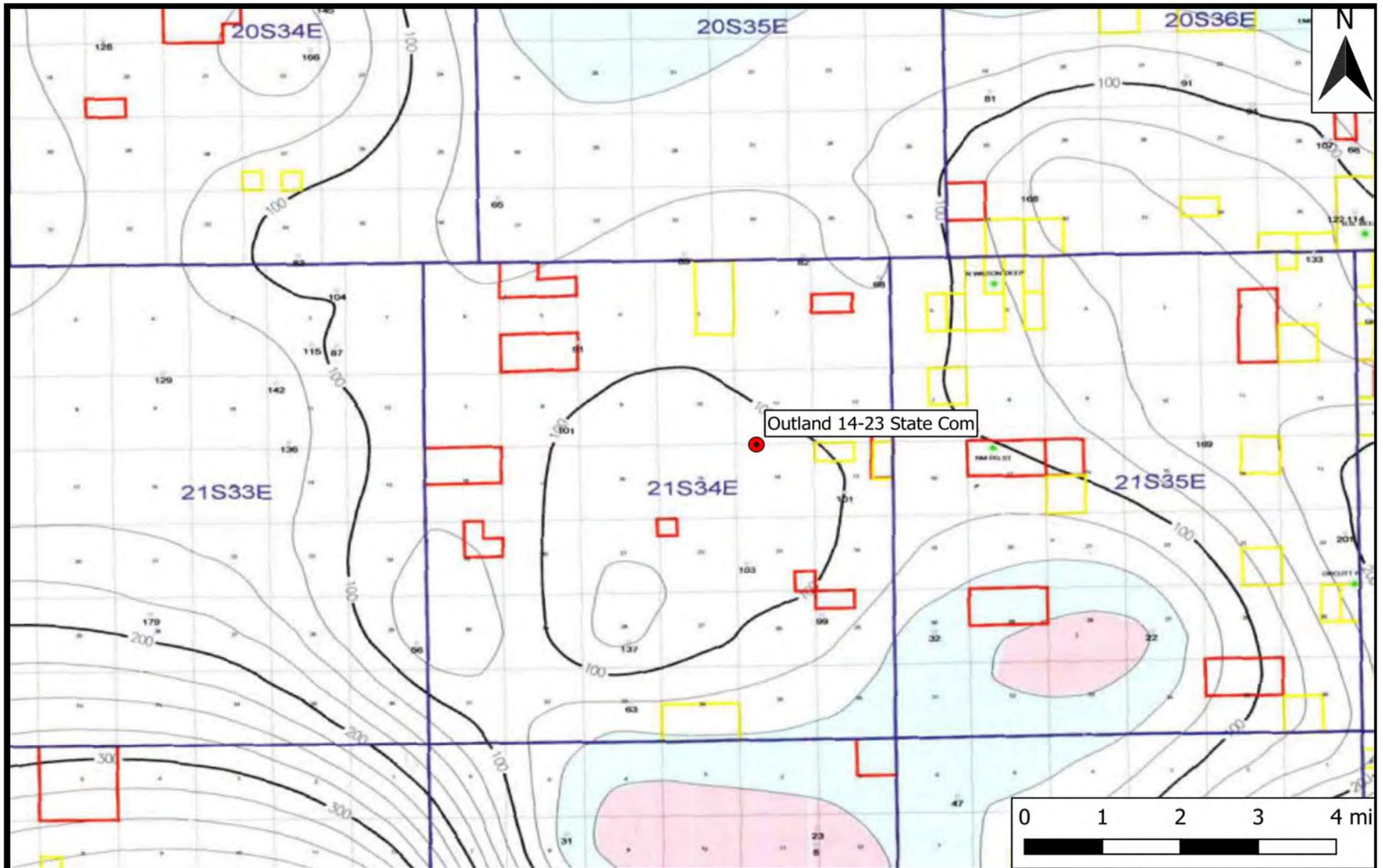
-- = Sample not analyzed for constituent

^D = Sample diluted due to matrix

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A

Depth to Groundwater Information

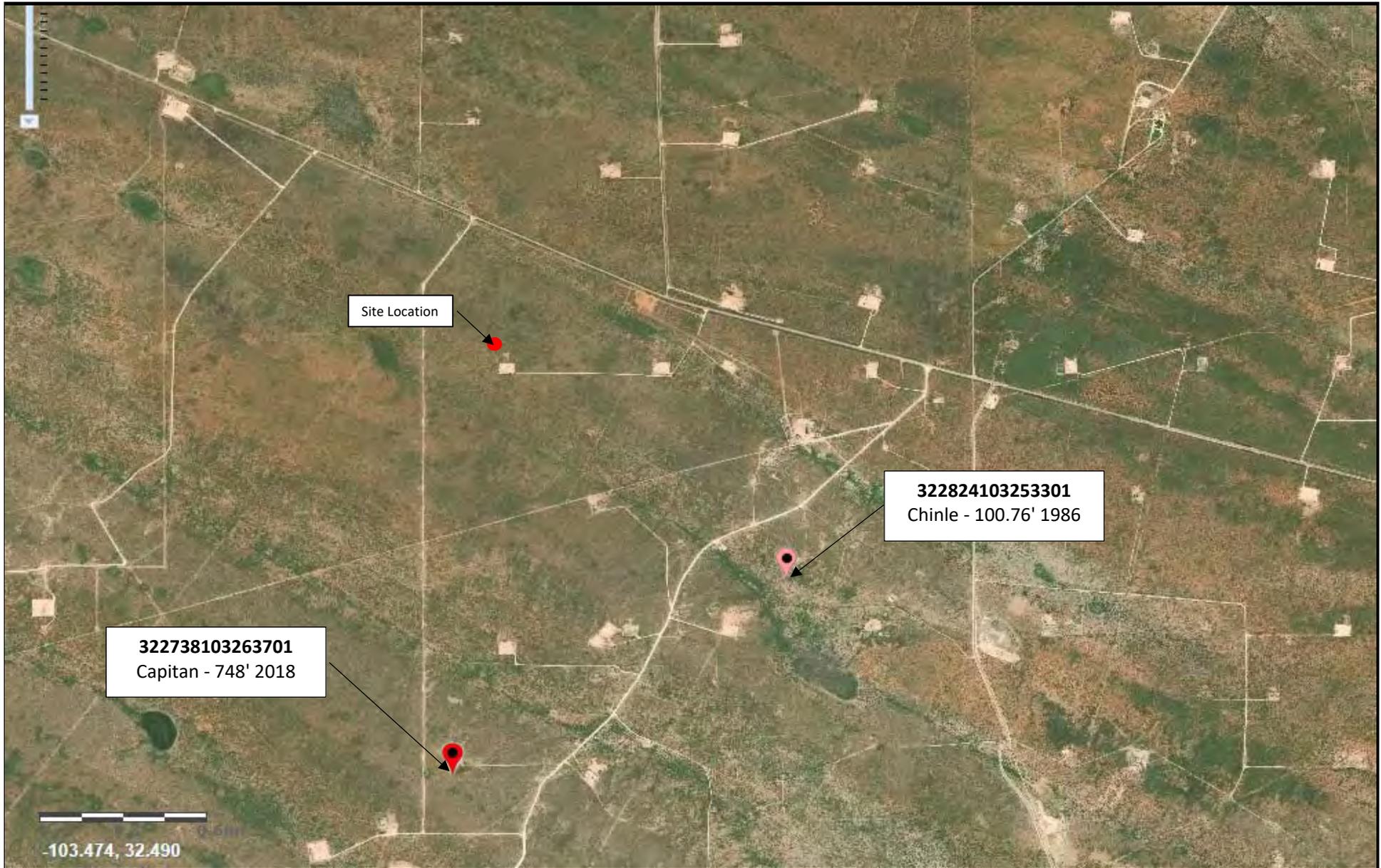


Legend
 ● Site Location

Figure 4
 Inferred Depth to Groundwater Trend Map
 Chisholm Energy Operating, LLC
 Outland 14-23 State Com
 GPS: 32.48571, -103.44495
 Lea County

E-TECH
 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 10/1/19



Legend:

- Site Location
- USGS Water Well

Figure 5
 USGS Well Proximity Map
 Chisholm Energy Operating, LLC
 Outland 14-23 State Com
 GPS: 32.48571, -103.44495
 Lea County




Environmental & Safety Solutions, Inc.

Drafted: Checked: jwl Date: 9/17/19



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00089	O CP	LE		2	1	13	21S	34E		647840	3594615	1876	235		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 646109

Northing (Y): 3595340

Radius: 2000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00089	2	1	13	21S	34E		647840	3594615
Driller License:		Driller Company:							
Driller Name: BUCK THERIAE									
Drill Start Date: 08/28/1943	Drill Finish Date:							Plug Date:	
Log File Date:	PCW Rev Date:							Source: Shallow	
Pump Type:	Pipe Discharge Size:							Estimated Yield:	
Casing Size: 7.00	Depth Well:					235 feet	Depth Water:		

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/17/19 8:40 AM

POINT OF DIVERSION SUMMARY

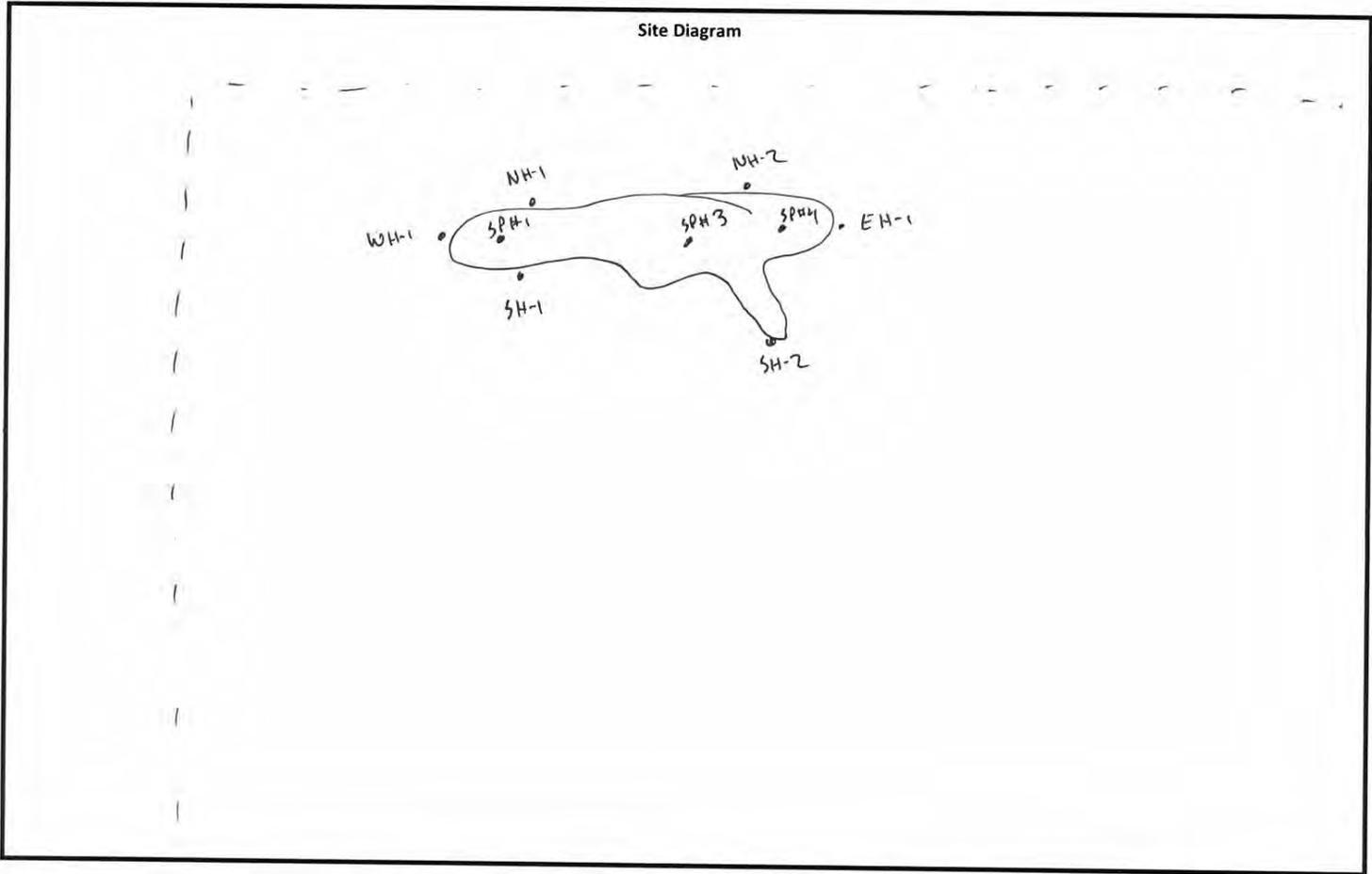
Appendix B

Field Data and Soil Profile Logs



Initial Release Assessment Form

Project: 10035 Clean Up Level: 600 mg/kg Cl-, 100 mg/kg TPH Date: _____
 Project Number: Outland 14-23 State Com Latitude: 32.48571 Longitude: -103.44495



Notes: Revisit Release Site
 Conduct initial release assessment
 Collect Horizontal & Vertical Samples
 Field Screen for Phosphate

~Length:	~Width:	~Area:	~Depth:	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?				<input type="checkbox"/>	<input type="checkbox"/>
Necessary Samples Field Screened and on Ice?				<input type="checkbox"/>	<input type="checkbox"/>
Sample and Field Screen Data Entered on Sample Log?				<input type="checkbox"/>	<input type="checkbox"/>
Was horizontal and vertical delineation achieved?				<input type="checkbox"/>	<input type="checkbox"/>



Soil Profile

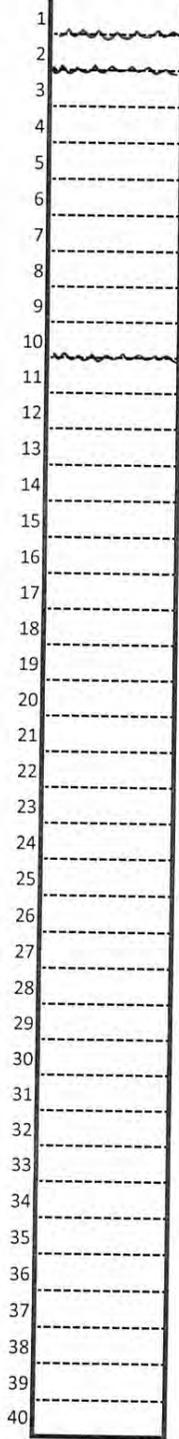
Date: 9-16-19

Project: Outland 14-23 State Com

Project Number: 10035 Latitude: 32.48571 Longitude: -103.44495

Depth (ft. bgs)

Description



1 Imported Fill / Caliche
 2 Brown Topsoil
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 4 Caliche w/ Sand
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Appendix C

Laboratory Analytical Reports



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

February 18, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: OUTLAND 14-23 STATE COM PAD

Enclosed are the results of analyses for samples received by the laboratory on 02/12/19 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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, prominent initial 'C'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/12/2019	Sampling Date:	02/12/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE COM PAD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY		

Sample ID: SP 1 @ SURFACE (H900545-01)

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	02/16/2019	ND	1.96	98.0	2.00	5.05		
Toluene*	<0.050	0.050	02/16/2019	ND	1.83	91.3	2.00	5.12		
Ethylbenzene*	0.052	0.050	02/16/2019	ND	1.79	89.5	2.00	4.53		
Total Xylenes*	0.302	0.150	02/16/2019	ND	5.36	89.3	6.00	5.05		
Total BTEX	0.354	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32400	16.0	02/16/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<100	100	02/15/2019	ND	167	83.5	200	5.10			
DRO >C10-C28*	19400	100	02/15/2019	ND	182	91.0	200	7.29			
EXT DRO >C28-C36	677	100	02/15/2019	ND							

Surrogate: 1-Chlorooctane 92.4 % 41-142

Surrogate: 1-Chlorooctadecane 1450 % 37.6-147

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:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/12/2019	Sampling Date:	02/12/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE COM PAD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY		

Sample ID: SP 2 @ SURFACE (H900545-02)

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	02/16/2019	ND	1.96	98.0	2.00	5.05		
Toluene*	<0.050	0.050	02/16/2019	ND	1.83	91.3	2.00	5.12		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.79	89.5	2.00	4.53		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.36	89.3	6.00	5.05		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	02/16/2019	ND	400	100	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	02/15/2019	ND	167	83.5	200	5.10		
DRO >C10-C28*	682	10.0	02/15/2019	ND	182	91.0	200	7.29		
EXT DRO >C28-C36	441	10.0	02/15/2019	ND						

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/12/2019	Sampling Date:	02/12/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE COM PAD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY		

Sample ID: SP 3 @ SURFACE (H900545-03)

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	02/16/2019	ND	1.96	98.0	2.00	5.05		
Toluene*	0.066	0.050	02/16/2019	ND	1.83	91.3	2.00	5.12		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.79	89.5	2.00	4.53		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.36	89.3	6.00	5.05		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	02/16/2019	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	02/15/2019	ND	167	83.5	200	5.10			
DRO >C10-C28*	1600	10.0	02/15/2019	ND	182	91.0	200	7.29			
EXT DRO >C28-C36	768	10.0	02/15/2019	ND							

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 154 % 37.6-147

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:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/12/2019	Sampling Date:	02/12/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE COM PAD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY		

Sample ID: SP 4 @ SURFACE (H900545-04)

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	02/16/2019	ND	1.96	98.0	2.00	5.05		
Toluene*	<0.050	0.050	02/16/2019	ND	1.83	91.3	2.00	5.12		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.79	89.5	2.00	4.53		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.36	89.3	6.00	5.05		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8130	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<50.0	50.0	02/15/2019	ND	167	83.5	200	5.10			
DRO >C10-C28*	12300	50.0	02/15/2019	ND	182	91.0	200	7.29			
EXT DRO >C28-C36	8840	50.0	02/15/2019	ND							

Surrogate: 1-Chlorooctane 84.7 % 41-142

Surrogate: 1-Chlorooctadecane 329 % 37.6-147

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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 SM4500CI-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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*=Accredited Analyte

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Celest D. Keene

Celest 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

BILL TO

ANALYSIS REQUEST

Company Name: Christophm Energy
 Project Manager: Lance Clemshaw
 Address: _____
 City: _____ State: _____ ZIP: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: Otland 14-23 State corn Pad
 Sampler Name: Lance Clemshaw
 P.O. #: _____
 Company: STECH
 Attn: Sally Walters
 Address: _____
 City: _____ State: _____ ZIP: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CI	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :									
<u>H900345</u>	<u>1 SPIES SURFACE</u>	<u>G</u>	<u>1</u>	<u>X</u>									<u>2-12</u>	<u>12:03 PM</u>	<u>1</u>	<u>1</u>	<u>1</u>	
	<u>2 SP20 SURFACE</u>	<u>G</u>	<u>1</u>	<u>X</u>									<u>2-12</u>	<u>2:06 PM</u>	<u>1</u>	<u>1</u>	<u>1</u>	
	<u>3 SP30 SURFACE</u>	<u>G</u>	<u>1</u>	<u>X</u>									<u>2-12</u>	<u>1:08 PM</u>	<u>1</u>	<u>1</u>	<u>1</u>	
	<u>4 SP40 SURFACE</u>	<u>G</u>	<u>1</u>	<u>X</u>									<u>2-12</u>	<u>1:16 PM</u>	<u>1</u>	<u>1</u>	<u>1</u>	

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Relinquished By: [Signature] Date: 2-10-19
 Received By: [Signature] Date: 2-10-19
 Rechecked By: [Signature] Date: 2-10-19

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: pm@stechenv.com
lance@stechenv.com

Delivered By: (Circle One) UPS
 Sampler - UPS - Bus - Other: 4.7c #97
 Sample Condition: Cool Intact
 Checked By: TE



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

August 08, 2019

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: OUTLAND 14-23 STATE

Enclosed are the results of analyses for samples received by the laboratory on 08/02/19 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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, appearing to read "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: SP 1 @ 1' - R (H902656-01)

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	08/06/2019	ND	1.47	73.4	2.00	3.59		
Toluene*	<0.050	0.050	08/06/2019	ND	1.84	91.9	2.00	10.4		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.89	94.3	2.00	0.650		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.80	96.6	6.00	1.34		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3720	16.0	08/07/2019	ND	416	104	400	3.77		

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	08/05/2019	ND	205	103	200	2.42		
DRO >C10-C28*	201	10.0	08/05/2019	ND	216	108	200	0.400		
EXT DRO >C28-C36	16.6	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 79.6 % 41-142

Surrogate: 1-Chlorooctadecane 92.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: SP 3 @ 1' - R (H902656-02)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2019	ND	1.47	73.4	2.00	3.59	GC-NC	
Toluene*	1.03	0.050	08/06/2019	ND	1.84	91.9	2.00	10.4		
Ethylbenzene*	1.24	0.050	08/06/2019	ND	1.89	94.3	2.00	0.650		
Total Xylenes*	6.52	0.150	08/06/2019	ND	5.80	96.6	6.00	1.34		
Total BTEX	8.78	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 153 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	08/07/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	355	50.0	08/05/2019	ND	205	103	200	2.42		
DRO >C10-C28*	17800	50.0	08/05/2019	ND	216	108	200	0.400		
EXT DRO >C28-C36	1080	50.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 288 % 41-142

Surrogate: 1-Chlorooctadecane 605 % 37.6-147

Cardinal Laboratories

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: SP 4 @ 1' - R (H902656-03)

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	08/06/2019	ND	1.47	73.4	2.00	3.59		
Toluene*	0.095	0.050	08/06/2019	ND	1.84	91.9	2.00	10.4		
Ethylbenzene*	0.204	0.050	08/06/2019	ND	1.89	94.3	2.00	0.650		
Total Xylenes*	0.188	0.150	08/06/2019	ND	5.80	96.6	6.00	1.34		
Total BTEX	0.487	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	08/07/2019	ND	416	104	400	3.77		

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	08/05/2019	ND	205	103	200	2.42		
DRO >C10-C28*	45.1	10.0	08/05/2019	ND	216	108	200	0.400		
EXT DRO >C28-C36	16.3	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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Analytical Results For:

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 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: EH 1 @ SURFACE (H902656-04)

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	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	08/07/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	205	103	200	2.42			
DRO >C10-C28*	4120	10.0	08/05/2019	ND	216	108	200	0.400			
EXT DRO >C28-C36	2120	10.0	08/05/2019	ND							

Surrogate: 1-Chlorooctane 86.8 % 41-142

Surrogate: 1-Chlorooctadecane 227 % 37.6-147

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: EH 1 @ 1' (H902656-05)

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	08/06/2019	ND	1.98	98.9	2.00	0.851		
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652		
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429		
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117		
Total BTEX	<0.300	0.300	08/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/07/2019	ND	416	104	400	3.77		

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	08/05/2019	ND	205	103	200	2.42		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	216	108	200	0.400		
EXT DRO >C28-C36	10.9	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: SH 1 @ SURFACE (H902656-06)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	08/07/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	205	103	200	2.42			
DRO >C10-C28*	2910	10.0	08/05/2019	ND	216	108	200	0.400			
EXT DRO >C28-C36	756	10.0	08/05/2019	ND							

Surrogate: 1-Chlorooctane 77.8 % 41-142

Surrogate: 1-Chlorooctadecane 214 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: SH 1 @ 1' (H902656-07)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/07/2019	ND	416	104	400	3.77		

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	08/05/2019	ND	205	103	200	2.42		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	216	108	200	0.400		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: SH 2 @ SURFACE (H902656-08)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	22800	16.0	08/07/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	205	103	200	2.42			
DRO >C10-C28*	3660	10.0	08/05/2019	ND	216	108	200	0.400			
EXT DRO >C28-C36	1190	10.0	08/05/2019	ND							

Surrogate: 1-Chlorooctane 74.6 % 41-142

Surrogate: 1-Chlorooctadecane 250 % 37.6-147

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Analytical Results For:

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 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: SH 2 @ 1' (H902656-09)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1640	16.0	08/07/2019	ND	416	104	400	3.77		

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	08/05/2019	ND	205	103	200	2.42		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	216	108	200	0.400		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.0 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: WH 1 @ SURFACE (H902656-10)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19600	16.0	08/07/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	205	103	200	2.42			
DRO >C10-C28*	2390	10.0	08/05/2019	ND	216	108	200	0.400			
EXT DRO >C28-C36	597	10.0	08/05/2019	ND							

Surrogate: 1-Chlorooctane 77.3 % 41-142

Surrogate: 1-Chlorooctadecane 281 % 37.6-147

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Analytical Results For:

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Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: WH 1 @ 1' (H902656-11)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	08/07/2019	ND	416	104	400	3.77		

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	08/05/2019	ND	205	103	200	2.42		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	216	108	200	0.400		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 79.0 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: NH 1 @ SURFACE (H902656-12)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5520	16.0	08/07/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	205	103	200	2.05			
DRO >C10-C28*	6180	10.0	08/05/2019	ND	205	102	200	3.94			
EXT DRO >C28-C36	427	10.0	08/05/2019	ND							

Surrogate: 1-Chlorooctane 61.7 % 41-142

Surrogate: 1-Chlorooctadecane 428 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: NH 1 @ 1' (H902656-13)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	08/07/2019	ND	416	104	400	3.77		

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	08/05/2019	ND	205	103	200	2.05		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	205	102	200	3.94		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 65.5 % 41-142

Surrogate: 1-Chlorooctadecane 67.3 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: NH 2 @ SURFACE (H902656-14)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3640	16.0	08/07/2019	ND	416	104	400	3.77		

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	08/05/2019	ND	205	103	200	2.05		
DRO >C10-C28*	1770	10.0	08/05/2019	ND	205	102	200	3.94		
EXT DRO >C28-C36	883	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 54.4 % 41-142

Surrogate: 1-Chlorooctadecane 141 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	08/02/2019	Sampling Date:	08/01/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	OUTLAND 14-23 STATE	Sampling Condition:	Cool & Intact
Project Number:	10035	Sample Received By:	Tamara Oldaker
Project Location:	CHISHOLM ENERGY - LEA CO NM		

Sample ID: NH 2 @ 1' (H902656-15)

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	08/07/2019	ND	1.97	98.6	2.00	0.0670		
Toluene*	<0.050	0.050	08/07/2019	ND	2.00	100	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.96	97.9	2.00	1.29		
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.99	99.8	6.00	1.39		
Total BTEX	<0.300	0.300	08/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/07/2019	ND	416	104	400	3.77		

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	08/05/2019	ND	205	103	200	2.05		
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	205	102	200	3.94		
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND						

Surrogate: 1-Chlorooctane 53.3 % 41-142

Surrogate: 1-Chlorooctadecane 58.1 % 37.6-147

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
- 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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ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Etch Environmental & Safety Solutions, Inc.	P.O. #:
Project Manager: Joel Lowry	Company: Etch
Address: P.O. Box 301	Attn:
City: Lovington	Address:
State: NM Zip: 88260	City:
Phone #: (575) 396-2378 Fax #: (575) 396-1429	State: Zip:
Project #: 10035 Project Owner: Chisholm	Phone #: Fax #:
Project Name: Outland 14-23 State	
Project Location: Lea	
Sampler Name: Jimmy Hand	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
11	WH 1 @ 1'	g	1	X						8/1/19	13:00	X	X	X
12	NH 1 @ Surface	g	1	X						8/1/19	10:20	X	X	X
13	NH 1 @ 1'	g	1	X						8/1/19	13:20	X	X	X
14	NH 2 @ Surface	g	1	X						8/1/19	10:25	X	X	X
15	NH 2 @ 1'	g	1	X						8/1/19	13:40	X	X	X

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Relinquished By: *W. H. Carter* Date: 8/2/19 Received By: *Jamara Reddy* Date: 8/1/19
 Time: 11:15
 Relinquished By: _____ Received By: _____

Delivered By: (Circle One) 3.42 #497 Sample Condition: Cool Intact Yes No

Sampler - UPS - Bus - Other: Consolidated 3.82 CHECKED BY: _____ (Initials)

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____

REMARKS: _____

FORM-006
 Revision 1.0
 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: SP3b@2'

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 10:00:00 AM

Lab ID: 1909918-001

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	38000	480		mg/Kg	50	9/19/2019 10:22:58 PM
Motor Oil Range Organics (MRO)	5400	2400		mg/Kg	50	9/19/2019 10:22:58 PM
Surr: DNOP	0	70-130	S	%Rec	50	9/19/2019 10:22:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	250	4.7		mg/Kg	1	9/19/2019 12:42:37 PM
Surr: BFB	1190	77.4-118	S	%Rec	1	9/19/2019 12:42:37 PM

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

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

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: SP3b@4'

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 10:12:00 AM

Lab ID: 1909918-002

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	18000	930		mg/Kg	100	9/20/2019 3:59:07 PM
Motor Oil Range Organics (MRO)	ND	4600	D	mg/Kg	100	9/20/2019 3:59:07 PM
Surr: DNOP	0	70-130	S	%Rec	100	9/20/2019 3:59:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	170	5.0		mg/Kg	1	9/19/2019 1:28:17 PM
Surr: BFB	1090	77.4-118	S	%Rec	1	9/19/2019 1:28:17 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	3200	150		mg/Kg	50	9/25/2019 9:30:26 AM

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

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

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: SP3b@6'

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 10:27:00 AM

Lab ID: 1909918-003

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	2500	96		mg/Kg	10	9/20/2019 4:21:32 PM
Motor Oil Range Organics (MRO)	ND	480	D	mg/Kg	10	9/20/2019 4:21:32 PM
Surr: DNOP	0	70-130	S	%Rec	10	9/20/2019 4:21:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2019 2:13:57 PM
Surr: BFB	128	77.4-118	S	%Rec	1	9/19/2019 2:13:57 PM

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

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

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: SP3b@8'

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 10:40:00 AM

Lab ID: 1909918-004

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	430	9.7		mg/Kg	1	9/19/2019 12:37:48 PM
Motor Oil Range Organics (MRO)	62	48		mg/Kg	1	9/19/2019 12:37:48 PM
Surr: DNOP	103	70-130		%Rec	1	9/19/2019 12:37:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2019 2:36:47 PM
Surr: BFB	119	77.4-118	S	%Rec	1	9/19/2019 2:36:47 PM

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

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

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: SP3b@10'

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 11:12:00 AM

Lab ID: 1909918-005

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	320	9.5		mg/Kg	1	9/19/2019 12:59:53 PM
Motor Oil Range Organics (MRO)	190	48		mg/Kg	1	9/19/2019 12:59:53 PM
Surr: DNOP	109	70-130		%Rec	1	9/19/2019 12:59:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2019 2:59:37 PM
Surr: BFB	103	77.4-118		%Rec	1	9/19/2019 2:59:37 PM

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

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

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: SP3b@11'

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 11:30:00 AM

Lab ID: 1909918-006

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/19/2019 1:22:07 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/19/2019 1:22:07 PM
Surr: DNOP	94.4	70-130		%Rec	1	9/19/2019 1:22:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2019 4:31:05 PM
Surr: BFB	96.7	77.4-118		%Rec	1	9/19/2019 4:31:05 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	190	60		mg/Kg	20	9/23/2019 2:11:13 PM

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

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

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: SH-1b@surf

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 1:00:00 PM

Lab ID: 1909918-007

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	11	9.5		mg/Kg	1	9/19/2019 2:12:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/19/2019 2:12:31 PM
Surr: DNOP	89.7	70-130		%Rec	1	9/19/2019 2:12:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2019 4:53:59 PM
Surr: BFB	97.3	77.4-118		%Rec	1	9/19/2019 4:53:59 PM

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

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

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: SH-2b@surf

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 1:15:00 PM

Lab ID: 1909918-008

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	33	9.9		mg/Kg	1	9/19/2019 2:34:34 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/19/2019 2:34:34 PM
Surr: DNOP	96.4	70-130		%Rec	1	9/19/2019 2:34:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/19/2019 5:16:48 PM
Surr: BFB	97.0	77.4-118		%Rec	1	9/19/2019 5:16:48 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	500	60		mg/Kg	20	9/23/2019 2:23:38 PM

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

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

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: NH-1b@surf

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 1:20:00 PM

Lab ID: 1909918-009

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	28	9.6		mg/Kg	1	9/19/2019 2:56:50 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/19/2019 2:56:50 PM
Surr: DNOP	92.0	70-130		%Rec	1	9/19/2019 2:56:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/19/2019 5:39:36 PM
Surr: BFB	97.6	77.4-118		%Rec	1	9/19/2019 5:39:36 PM

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

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

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: NH-2b@surf

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 1:23:00 PM

Lab ID: 1909918-010

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	24	9.8		mg/Kg	1	9/19/2019 3:19:02 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/19/2019 3:19:02 PM
Surr: DNOP	96.3	70-130		%Rec	1	9/19/2019 3:19:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2019 6:02:24 PM
Surr: BFB	98.9	77.4-118		%Rec	1	9/19/2019 6:02:24 PM

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

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

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: EH-1b@surf

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 1:45:00 PM

Lab ID: 1909918-011

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	12	9.4		mg/Kg	1	9/19/2019 3:41:15 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/19/2019 3:41:15 PM
Surr: DNOP	86.9	70-130		%Rec	1	9/19/2019 3:41:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/19/2019 6:25:15 PM
Surr: BFB	99.6	77.4-118		%Rec	1	9/19/2019 6:25:15 PM

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

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

Analytical Report

Lab Order **1909918**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Chisholm Energy Operating

Client Sample ID: WH-1b@surf

Project: Outland 14 32 State Com

Collection Date: 9/16/2019 2:00:00 PM

Lab ID: 1909918-012

Matrix: SOIL

Received Date: 9/18/2019 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	18	9.9		mg/Kg	1	9/19/2019 4:03:25 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/19/2019 4:03:25 PM
Surr: DNOP	88.1	70-130		%Rec	1	9/19/2019 4:03:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2019 6:48:01 PM
Surr: BFB	100	77.4-118		%Rec	1	9/19/2019 6:48:01 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	490	60		mg/Kg	20	9/23/2019 2:36:02 PM

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

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

Form C-141

State of New Mexico

Page 5

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: _____ Title: _____
 Signature: _____ Date: _____
 email: _____ Telephone: _____

OCD Only

Received by: Robert Hamlet Date: 1/15/2020

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  _____ Date: 1/15/2020

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 403040

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nOY1831140454
Incident Name	NOY1831140454 CHISHOLM 14-23 STATE FRAC TANK @ 30-025-44157
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-44157] OUTLAND 14 23 STATE COM 2BS #002H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	CHISHOLM 14-23 STATE FRAC TANK
Date Release Discovered	10/21/2018
Surface Owner	State

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Tank (Any) Produced Water Released: 30 BBL Recovered: 10 BBL Lost: 20 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 403040

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 11/13/2024
--	--

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Oil Conservation Division
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QUESTIONS, Page 3

Action 403040

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	20400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1260
GRO+DRO (EPA SW-846 Method 8015M)	1260
BTEX (EPA SW-846 Method 8021B or 8260B)	2.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	12/01/2023
On what date will (or did) the final sampling or liner inspection occur	10/16/2024
On what date will (or was) the remediation complete(d)	10/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	25700
What is the estimated volume (in cubic yards) that will be reclaimed	3398
What is the estimated surface area (in square feet) that will be remediated	25700
What is the estimated volume (in cubic yards) that will be remediated	6280

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

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

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QUESTIONS, Page 4

Action 403040

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 11/13/2024
--	---

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

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QUESTIONS, Page 5

Action 403040

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

QUESTIONS, Page 6

Action 403040

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	402973
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/16/2024
What was the (estimated) number of samples that were to be gathered	265
What was the sampling surface area in square feet	25700

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	25700
What was the total volume (cubic yards) remediated	6280
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	25700
What was the total volume (in cubic yards) reclaimed	3398
Summarize any additional remediation activities not included by answers (above)	Remediation at site is complete. The release occurred while the facility was owned by a previous operator (Chisholm). The presence and transfer of the open regulatory file was not discovered until a more recent reportable release was remediated; the two reportable releases were remediated concurrently.

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

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

I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 11/13/2024
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
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QUESTIONS, Page 7

Action 403040

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

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CONDITIONS

Action 403040

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 403040
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	None	3/10/2025