

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nPAC0730332572
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Earthstone Operating, LLC	OGRID	331165
Contact Name	Chris Martin	Contact Telephone	432-253-9998 Ext. 2653
Contact email	cmartin@earthstoneenergy.com	Incident # (assigned by OCD)	nPAC0730332572
Contact mailing address	600 N. Marienfeld, Suite 1000, Midland, TX 79701		

Location of Release Source

Latitude 32.4880447 Longitude -103.4296799
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Outland State Unit #001Y	Site Type	Tank Battery
Date Release Discovered		API# (if applicable)	

Unit Letter	Section	Township	Range	County
M	12	21S	34E	Lea

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 60	Volume Recovered (bbls) 0
	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"/> 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 (provide units)	Volume/Weight Recovered (provide units)

Cause of Release **Lightening struck the tank battery.**

Note: At the time of the release this asset was not owned and operated by Earthstone Operating, LLC. Earthstone Operating, LLC has since purchased the asset and is reviewing open Chisholm releases from the acquisition and addressing them.

Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release was greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Unknown - the original C-141 was not available on the NMOCD website.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Rebecca Haskell</u>	Title: <u>Senior Project Manager</u>
Signature: <u>Rebecca Haskell</u>	Date: <u>10/28/2023</u>
email: <u>bhaskell@ntglobal.com</u>	Telephone: <u>432-766-1918</u>
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>11/1/2023</u>

Incident ID	nPAC0730332572
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Facility ID	
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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?	<u>Unknown</u> (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.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ 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.

Oil Conservation Division

Incident ID	nPAC0730332572
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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: Rebecca Haskell Title: Senior Project Manager
Signature: Rebecca Haskell Date: 10/28/2023
email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Shelly Wells Date: 11/1/2023

Incident ID	nPAC0730332572
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Closure

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

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

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

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

Printed Name: Rebecca Haskell Title: Senior Project Manager
Signature: Rebecca Haskell Date: 10/28/2023
email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Shelly Wells Date: 11/1/2023

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

Closure Approved by: Ashley Maxwell Date: 11/02/2023
Printed Name: Ashley Maxwell Title: Environmental Specialist



701 Tradewinds Blvd
Midland, Texas 79707
Tel. 432-766-1918
www.ntgenvironmental.com

October 28, 2023

Mike Bratcher
District Supervisor
Oil Conservation Division, District 1
1625 N. French Drive
Hobbs, New Mexico 88240

**Re: Site Characterization and Closure Request
Outland State Unit #001Y
Earthstone Operating, LLC
Site Location: M-12-21S-34E
(Lat 32.4880447°, Long -103.4296799°)
Lea County, New Mexico
Incident ID: NPAC0730332572**

1. Introduction

On behalf of Earthstone Operating, LLC (Earthstone), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Closure Request Report for the New Mexico Oil Conservation Department (NMOCD) District 1 Office in Hobbs, New Mexico for documentation of site assessment, remedial action activities, and analysis at the Outland State Unit #001Y (Site). The Site is located within Unit Letter M, Section 12 of Township 21 South and Range 34 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.4880447° N latitude and -103.4296799° W Longitude. The release occurred on land owned by the New Mexico State Land Office (NMSLO). Figure 1 depicts the site location and Figure 2 shows the topographic map of the site.

2. Background

Based on the information obtained from the New Mexico Oil Conservation Division (NMOCD), the release occurred on July 21, 2007, as the result of lightning striking the tank battery. Approximately 60 barrels (bbls) of produced water were released, with zero (0) bbls being recovered for a net loss of 60 bbls of produced water. At the time of the release the asset was owned and operated by Devon Energy Production Company, LP. Earthstone later acquired the asset from Chisholm Energy Operating, LLC. The release area is depicted on Figure 3. The Release Notification, Site Characterization, and Closure portions of Form C-141 for incident number nPAC0730332572 are attached to the front of this report.

3. Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there are no known depth to groundwater sources and/or features within a half mile radius of the location. No other receptors (water wells, playas, wetlands, waterways,

Mr. Mike Bratcher
October 28, 2023
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lakebeds or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map the site is located within a low Karst occurrence area. The site characterization documentation (New Mexico Oil and Gas Map, Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) is provided in Attachment A.

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

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Low Karst	Unknown

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+DRO)	BTEX	Benzene
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

4. Initial Soil Delineation Assessment Summary and Findings

On April 18, 2023, NTGE proceeded to conduct an initial delineation assessment whereby five (5) vertical sample points (S-1 through S-5) and eight (8) horizontal sample points (H-1 through H-8) were installed to delineate the area. The vertical samples were collected in one (1) foot intervals from depths ranging from zero (0) to one and a half (1.5) foot (ft) below ground surface (bgs) with a geotechnical hand auger. The samples were submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) by 8021B, total petroleum hydrocarbons (TPH) by method 8015 modified, and chloride by method SM4500 Cl-B. Analytical results indicated that two (2) samples (S-3 at 0-6" and S-5 at 0-6") exceeded Table I Closure Criteria for chloride and/or TPH concentrations respectively. Figure 3 depicts the initial delineation sample locations with analytical results provided on Table 1, Summary of Soil Analytical Data – Delineation Samples. Laboratory reports are included in Appendix D.

Mr. Mike Bratcher
October 28, 2023
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5. Remedial Action Activities and Confirmation Sampling

Based on initial delineation assessments, Earthstone contracted Standard Safety and Supply (Standard) to perform remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. Composite bottom hole and sidewall confirmation samples were collected by way of five (5) point composite samples from areas representing no greater than two hundred (200) square feet. The confirmation samples were analyzed for BTEX (EPA Method 8021B), TPH (EPA method 8015 modified), and chloride (method SM4500Cl-B).

On May 16, 2023, NTGE conducted a confirmation sampling event whereby six (6) bottom hole (CS-1 through CS-6) and six (6) sidewall confirmation samples (SW-1 through SW-6) were collected and submitted to Cardinal in Hobbs, New Mexico. Analytical results indicated that CS-5 exhibited TPH concentrations over the Table I Closure Criteria at a depth of one (1) ft bgs. The area represented by confirmation sample CS-5 was further excavated by Standard due to the TPH exceedances to a depth of one and a half (1.5) ft bgs.

On May 26, 2023, after further excavation by Standard, NTGE conducted a confirmation sampling event, whereby one (1) composite bottom hole confirmation sample (CS-5A) and two (2) sidewall composite sample (SW-7 and SW-8) were collected and submitted to Cardinal in Hobbs, New Mexico. Analytical results indicated that all samples were below Table I Closure Criteria.

On June 7, 2023, NTGE conducted a confirmation sampling event, collecting one (1) bottom hole confirmation sample (CS-7) to comply with NMAC closure criteria where each sample will represent an area no greater than two hundred (200) square feet. The sample was submitted to Cardinal Labs in Hobbs, New Mexico. Analytical results indicated that all samples were under the Table I Closure Criteria for benzene, BTEX, TPH, and chlorides. The final excavation extent and confirmation sample locations are shown on Figure 4. Analytical results of the confirmation samples are included in Table 2, and in the Laboratory Analytical Reports provided in Attachment D. A photographic log is provided as Attachment B and Confirmation Sampling Notifications are provided as Attachment C.

6. Waste Management and Backfill Activities

On June 12, 2023, Standard transported 19.91 cubic yards of impacted soil to Lea Land, LLC located thirty (30) miles east of Carlsbad, New Mexico for disposal. Upon review and analytical results, the site was backfilled with like-sourced materials and brought up to surface grade. The waste manifest for the soils is included in Attachment E.

7. nPAC0730332572 Closure Request

Based on the assessment, remediation efforts, and confirmation sampling, the Site is in compliance with NMOCD regulatory standards. Based on the supporting documentation

Mr. Mike Bratcher
October 28, 2023
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provided in this report, NTGE on behalf of Earthstone respectfully requests closure for nPAC0730332572. The Release Notification, Site Assessment/Characterization, and Closure portion of the NMOCD form C-141 are included at the front of this report.

If you have any questions regarding this report or need additional information, please contact us at 432-766-1918.

Sincerely,
NTG Environmental

Rebecca Haskell

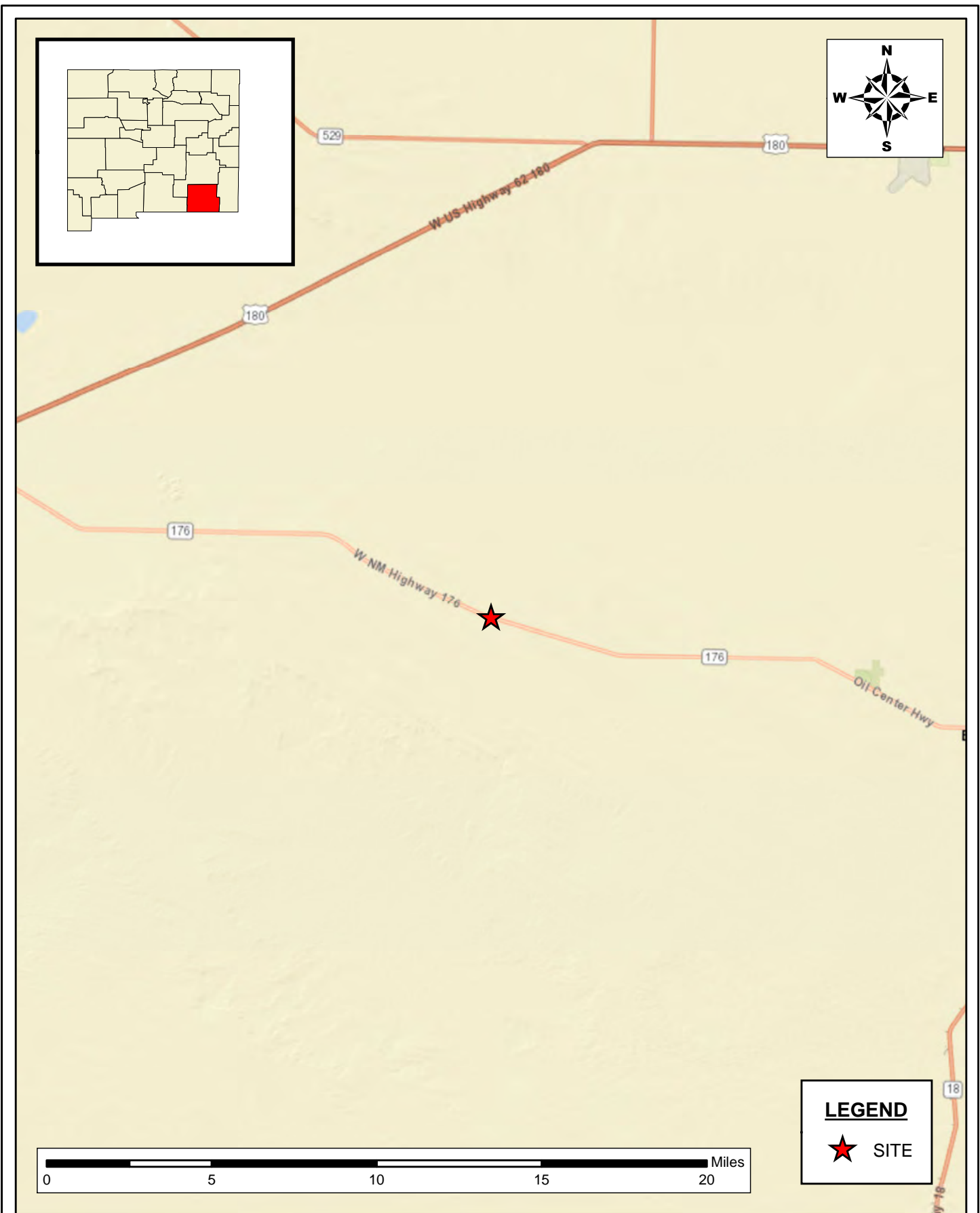
Rebecca Haskell
Senior Project Manager

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Initial Sample Location Map
- Figure 4 – Confirmation Sample Location Map
- Table 1 Summary of Soil Analytical Data – Delineation Samples
- Table 2 Summary of Soil Analytical Data – Confirmation Samples
- Attachment A – Site Characterization Documentation
- Attachment B – Photographic Log
- Attachment C – Confirmation Sampling Notifications
- Attachment D – Laboratory Reports and Chain-of-Custody Documents
- Attachment E – Waste Manifest

FIGURES

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LEGEND

★ SITE

Site Location Map
Earthstone Operating, LLC
Outland State Unit #001Y
Lea County, New Mexico
32.4880447°, -103.4296799°

SCALE: As Shown

DATE: 2/22/2023

PROJECT #: 237257



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

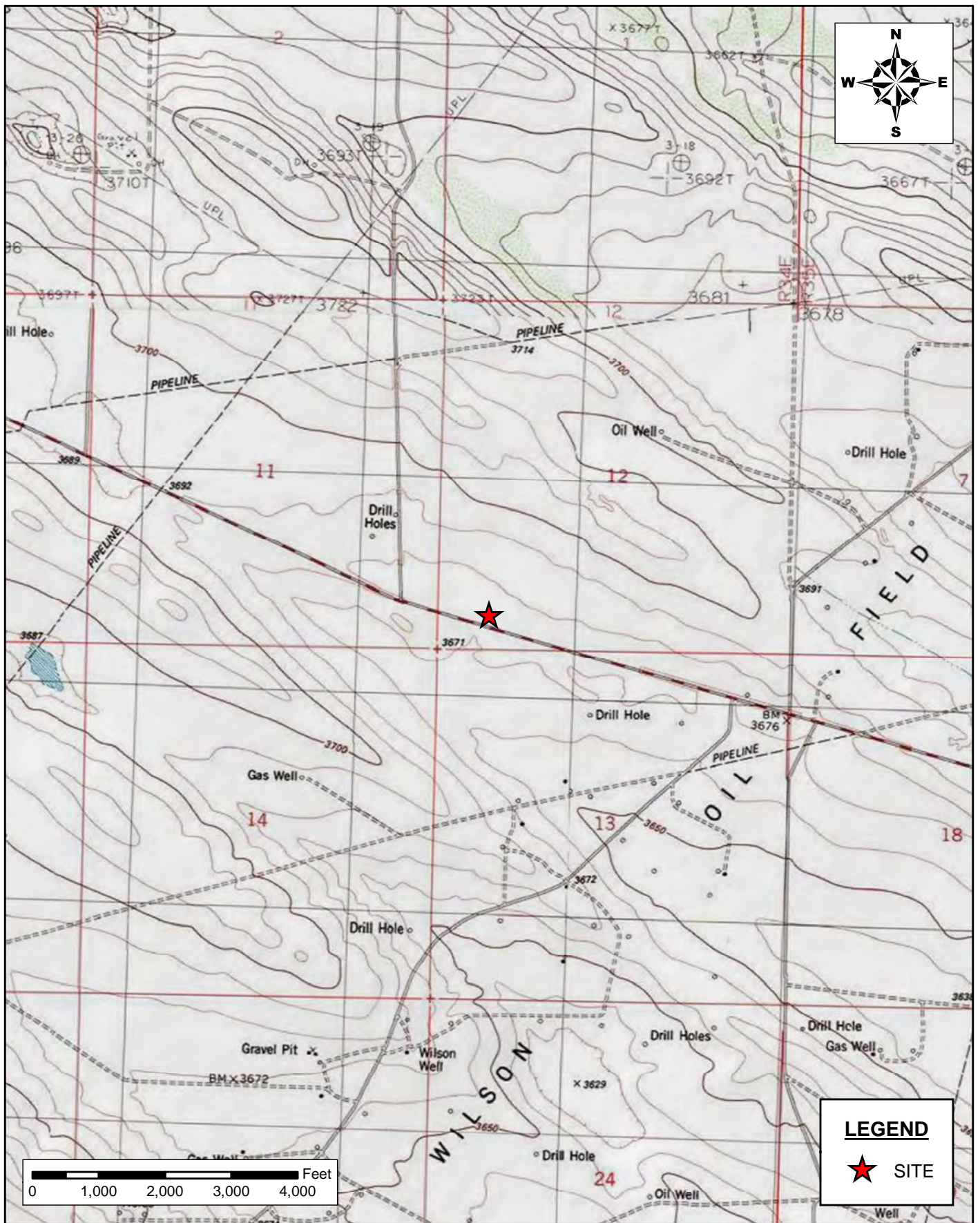
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FIGURE 1

SHEET NUMBER:

1 of 1

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Topographic Map
Earthstone Operating, LLC
Outland State Unit #001Y
Lea County, New Mexico
32.4880447°, -103.4296799°

SCALE: As Shown DATE: 2/22/2023 PROJECT #: 236769



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NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

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FIGURE 2

SHEET NUMBER:

1 of 1

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Intital Sample Location Map
Earthstone Operating, LLC
Outland State Unit #001Y
Lea County, New Mexico
32.487675°, -103.429647°

SCALE: As Shown

DATE: 6/15/2023

PROJECT #: 237257



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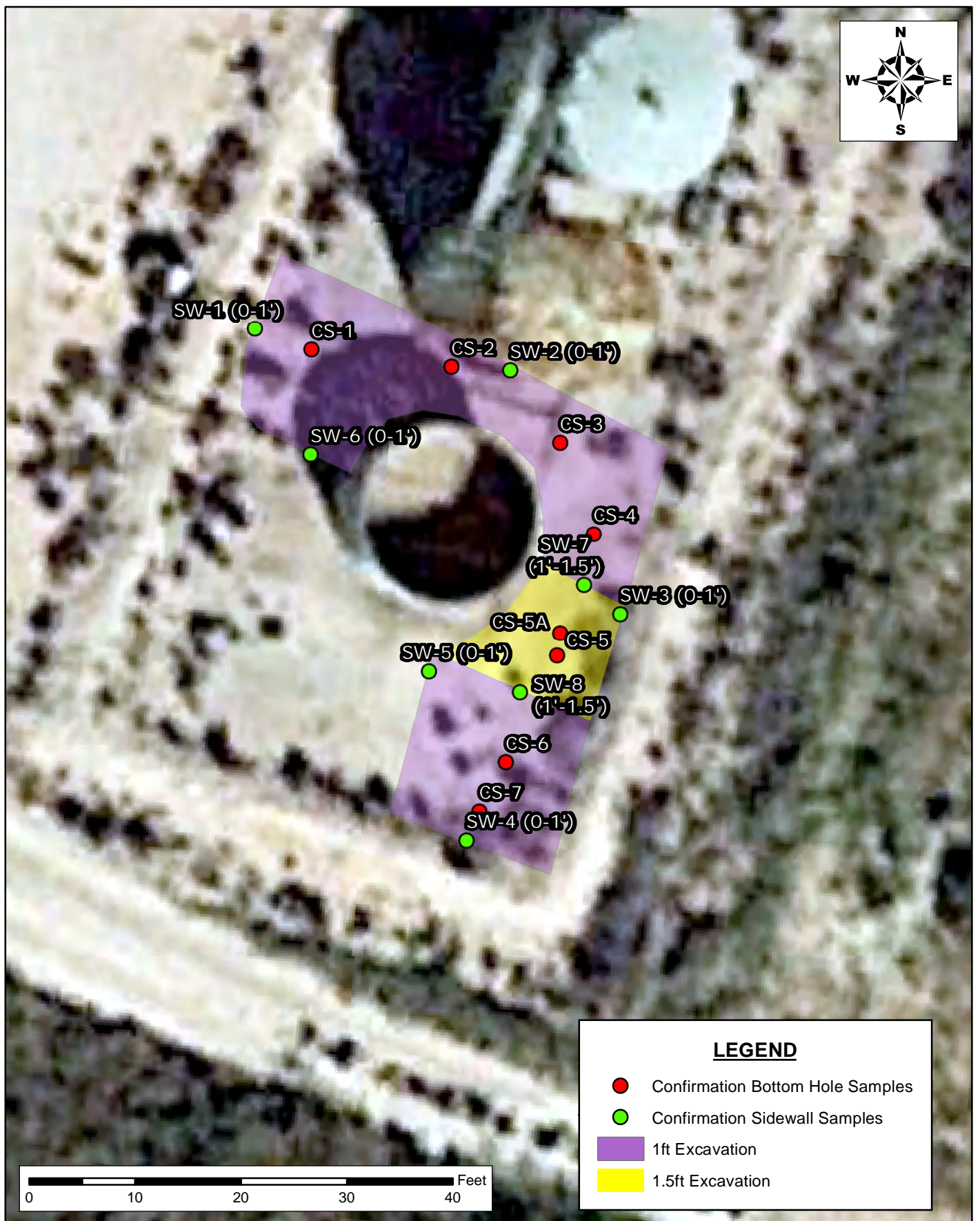
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FIGURE 3

SHEET NUMBER:

1 of 1

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Confirmation Sample Location Map
 Earthstone Operating, LLC
 Outland State Unit #001Y
 Lea County, New Mexico
 32.487675°, -103.429647°

SCALE: As Shown

DATE: 6/15/2023

PROJECT #: 237257



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NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 4

SHEET NUMBER:

1 of 1

TABLES

Table 1
Summary of Soil Analytical Data - Delineation Samples
Outland State Unit #001Y
Earthstone Operating, LLC
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28 C35)	Total GRO/DRO/MRO (C6- C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Initial Assessment Samples													
S-1	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
S-2	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
S-3	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,280
S-3	4/18/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
S-4	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
S-5	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	165	165	102	267	32.0
H-1	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-2	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-3	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
H-4	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
H-5	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-6	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-7	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-8	4/18/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

Notes:

1. Values reported in mg/kg

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

3. Bold indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B

SP-1

 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

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

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

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

9. --- Not Analyzed

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Outland State Unit #001Y
Earthstone Operating, LLC
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Bottom Hole Confirmation Samples													
CS-1	5/16/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
CS-2	5/16/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
CS-3	5/16/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS-4	5/16/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-5	5/16/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	89.2	89.2	36.5	125.7	32.0
CS-5A	5/26/2023	1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.1	14.1	<10.0	14.1	32.0
CS-6	5/16/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-7	6/7/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Sidewall Confirmation Samples													
SW-1	5/16/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-2	5/16/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SW-3	5/16/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-4	5/16/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-5	5/16/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-6	5/16/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW-7	5/26/2023	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-8	5/26/2023	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

Notes:

1. Values reported in mg/kg

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

3. Bold indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B

SP-1

 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

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

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

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

9. --- Not Analyzed

APPENDIX A: SITE CHARACTERIZATION DOCUMENTATION

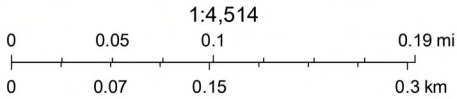
Site Characterization Map



4/14/2023, 12:25:41 PM

Karst Occurrence Potential

- Low
- PLSS Second Division
- PLSS First Division



BLM, OCD, New Mexico Tech, USGS, Esri, HERE, Garmin, IPC, Maxar, NM OSE, BLM

OSE POD Locations Map



4/14/2023, 12:31:22 PM

GIS WATERS PODs

- Active
- Pending
- Plugged

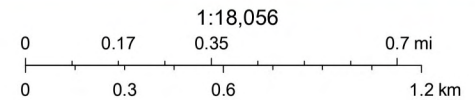
- OSE District Boundary
- Water Right Regulations
- Closure Area

New Mexico State Trust Lands

- Subsurface Estate
- Both Estates

NHD Flowlines

- Stream River
- SiteBoundaries




Esri, HERE, IPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, IPC, Maxar


Web Generated Map
Map is generated by web users.


Outland State Unit #001Y


Karst Potential Map

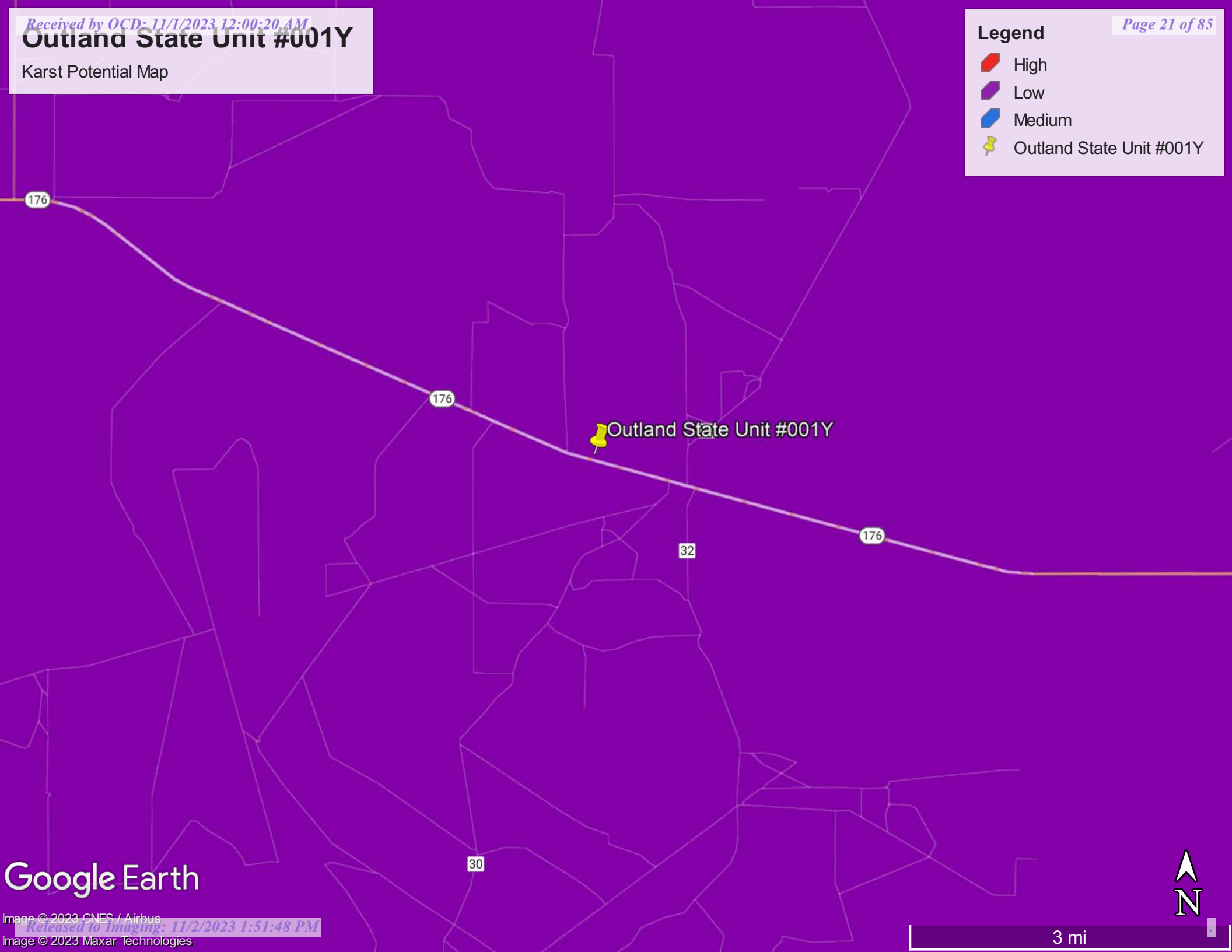
Legend

 High

 Low

 Medium

 Outland State Unit #001Y



Google Earth






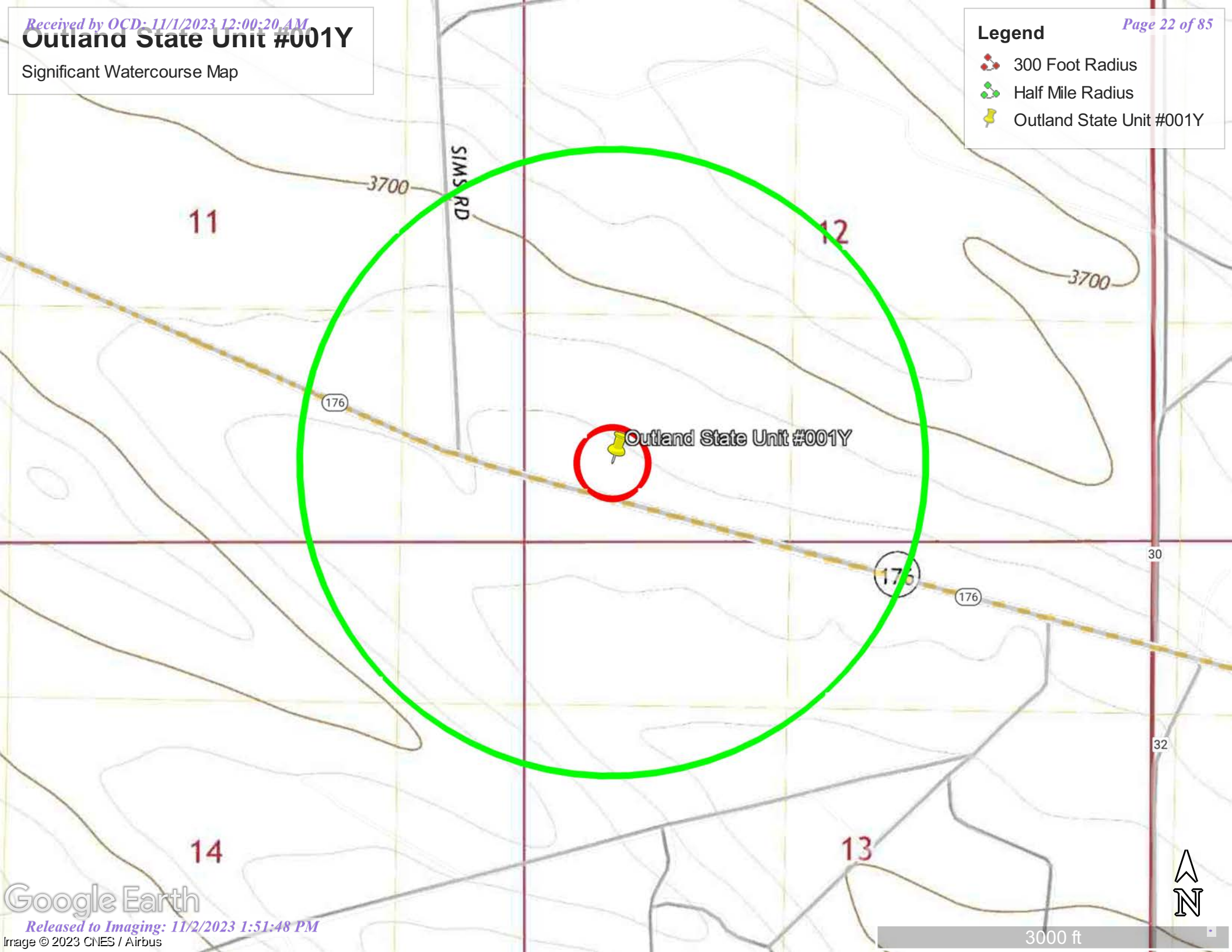
3 mi

Outland State Unit #001Y

Significant Watercourse Map

Legend


-  300 Foot Radius
-  Half Mile Radius
-  Outland State Unit #001Y





April 14, 2023

Wetlands

- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond |  | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Flood Hazard Layer FIRMette



103°26'4"W 32°29'30"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/28/2023 at 5:15 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

APPENDIX B: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Earthstone Operating, LLC
Outland State Unit #001Y

Photograph No. 1

Facility: Outland State Unit #001Y

County: Lea County, New Mexico

Description:
View of Impacted Area.

**Photograph No. 2**

Facility: Outland State Unit #001Y

County: Lea County, New Mexico

Description:
View of Impacted Area.

**Photograph No. 3**

Facility: Outland State Unit #001Y

County: Lea County, New Mexico

Description:
View of Impacted Area.



PHOTOGRAPHIC LOG

Earthstone Operating, LLC

Outland State Unit #001Y

Photograph No. 4**Facility:** Outland State Unit #001Y**County:** Lea County, New Mexico**Description:**

View of Remedial Action Activities.

**Photograph No. 5****Facility:** Outland State Unit #001Y**County:** Lea County, New Mexico**Description:**

View of Remedial Action Activities.

**Photograph No. 6****Facility:** Outland State Unit #001Y**County:** Lea County, New Mexico**Description:**

View of Remedial Action Activities.



PHOTOGRAPHIC LOG

Earthstone Operating, LLC
Outland State Unit #001Y

Photograph No. 7

Facility: Outland State Unit #001Y

County: Lea County, New Mexico

Description:
View of Backfilled Excavation Area



Photograph No. 8

Facility: Outland State Unit #001Y

County: Lea County, New Mexico

Description:
View of Backfilled Excavation Area



Photograph No. 9

Facility: Outland State Unit #001Y

County: Lea County, New Mexico

Description:
View of Backfilled Excavation Area



APPENDIX C: CONFIRMATION SAMPLING NOTIFICATIONS

From: [Enviro, OCD, EMNRD](#)
To: [Ricardo Baer](#)
Cc: [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: RE: [EXTERNAL] OUTLAND STATE UNIT #001Y
Date: Wednesday, May 10, 2023 4:34:38 PM
Attachments: [image003.png](#)

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Ricardo,

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

JH

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



From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, May 10, 2023 12:58 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Becky Haskell <bhaskell@ntglobal.com>; NTG Env Carlsbad <ntg_env_carlsbad@ntglobal.com>
Subject: [EXTERNAL] OUTLAND STATE UNIT #001Y

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

Good afternoon,

NTGE, on behalf of Earthstone Operating, LLC, respectfully submits notification of sampling to be conducted at the below location.

OUTLAND STATE UNIT #001Y

M-12-21S-34E

Lea County, NM

nPAC0730332572

Sampling will begin at 8:00 a.m. on Monday, May 15, 2023, and continue through Friday, May 19,

2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO²
Project Scientist
(432) 556-2006
Rbaer@ntglobal.com



STATEMENT OF CONFIDENTIALITY: The contents of this e-mail and its attachments are intended solely for the addressee(s) hereof. In addition, this e-mail transmission may be confidential. If you are not the named addressee, or if this message has been addressed to you in error, you are directed not to read, disclose, reproduce, distribute, disseminate or otherwise use this transmission. Delivery of this message to any person other than the intended recipients(s) is not intended in any way to waive confidentiality. If you have received this transmission in error, please alert the sender by reply e-mail; we also request that you immediately delete this message and its attachments, if any.

From: [Enviro, OCD, EMNRD](#)
To: [Ricardo Baer](#)
Cc: [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: RE: [EXTERNAL] OUTLAND STATE UNIT #001Y
Date: Wednesday, May 17, 2023 4:55:26 PM
Attachments: [image002.png](#)

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Ricardo,

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

JH

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



From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, May 17, 2023 1:27 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: NTG Env Carlsbad <ntg_env_carlsbad@ntglobal.com>; Becky Haskell <bhaskell@ntglobal.com>
Subject: [EXTERNAL] OUTLAND STATE UNIT #001Y

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

Good afternoon,

NTGE, on behalf of Earthstone Operating, LLC, respectfully submits notification of sampling to be conducted at the below location.

OUTLAND STATE UNIT #001Y
M-12-21S-34E
Lea County, NM
nPAC0730332572

Sampling will begin at 8:00 a.m. on Monday, May 22, 2023, and continue through Friday, May 26,

2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO²
Project Scientist
(432) 556-2006
Rbaer@ntglobal.com



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From: [Buchanan, Michael, EMNRD](#)
To: [Ricardo Baer](#); [Enviro, OCD, EMNRD](#)
Cc: [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] OUTLAND STATE UNIT #001Y
Date: Friday, June 2, 2023 4:35:36 PM
Attachments: [image002.png](#)

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Received.

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

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113
| michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/oecd>



From: Ricardo Baer <Rbaer@ntglobal.com>
Sent: Thursday, June 1, 2023 3:38 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] OUTLAND STATE UNIT #001Y

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

NTGE, on behalf of Earthstone Operating, LLC, respectfully submits notification of sampling to be conducted at the below location.

OUTLAND STATE UNIT #001Y
M-12-21S-34E
Lea County, NM
nPAC0730332572

Sampling will begin at 8:00 a.m. on Monday, June 5, 2023, and continue through Friday, June 9, 2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO²

Project Scientist

(432) 556-2006

Rbaer@ntglobal.com



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From: [Enviro, OCD, EMNRD](#)
To: [Ricardo Baer](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] OUTLAND STATE UNIT #001Y
Date: Wednesday, June 7, 2023 4:57:49 PM
Attachments: [image002.png](#)

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Ricardo,

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

JH

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



From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, June 7, 2023 2:33 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Becky Haskell <bhaskell@ntglobal.com>; NTG Env Carlsbad <ntg_env_carlsbad@ntglobal.com>
Subject: [EXTERNAL] OUTLAND STATE UNIT #001Y

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

NTGE, on behalf of Earthstone Operating, LLC, respectfully submits notification of sampling to be conducted at the below location.

OUTLAND STATE UNIT #001Y
M-12-21S-34E
Lea County, NM
nPAC0730332572

Sampling will begin at 8:00 a.m. on Monday, June 12, 2023, and continue through Friday, June 16, 2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO²

Project Scientist

(432) 556-2006

Rbaer@ntglobal.com



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STATEMENT OF CONFIDENTIALITY: The contents of this e-mail and its attachments are intended solely for the addressee(s) hereof. In addition, this e-mail transmission may be confidential. If you are not the named addressee, or if this message has been addressed to you in error, you are directed not to read, disclose, reproduce, distribute, disseminate or otherwise use this transmission. Delivery of this message to any person other than the intended recipients(s) is not intended in any way to waive confidentiality. If you have received this transmission in error, please alert the sender by reply e-mail; we also request that you immediately delete this message and its attachments, if any.

APPENDIX D: LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



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

April 24, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND STATE

Enclosed are the results of analyses for samples received by the laboratory on 04/18/23 15:18.

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:	04/18/2023	Sampling Date:	04/18/2023
Reported:	04/24/2023	Sampling Type:	Soil
Project Name:	OUTLAND STATE	Sampling Condition:	Cool & Intact
Project Number:	237257	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: S - 1 (0'-1.5') (H231865-01)

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	04/21/2023	ND	1.91	95.7	2.00	1.48		
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28		
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94		
Total BTEX	<0.300	0.300	04/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/21/2023	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	04/21/2023	ND	211	105	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/21/2023	ND	211	105	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/21/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 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

Analytical Results For:

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

Received: 04/18/2023
 Reported: 04/24/2023
 Project Name: OUTLAND STATE
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 (0'-.5') (H231865-02)

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	04/21/2023	ND	1.91	95.7	2.00	1.48		
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28		
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94		
Total BTEX	<0.300	0.300	04/21/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/21/2023	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	04/21/2023	ND	211	105	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/21/2023	ND	211	105	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/21/2023	ND					

Surrogate: 1-Chlorooctane 55.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.2 % 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: 04/18/2023
 Reported: 04/24/2023
 Project Name: OUTLAND STATE
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 (0'-5') (H231865-03)

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	04/21/2023	ND	1.91	95.7	2.00	1.48		
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28		
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94		
Total BTEX	<0.300	0.300	04/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	04/21/2023	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	04/21/2023	ND	211	105	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/21/2023	ND	211	105	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/21/2023	ND					

Surrogate: 1-Chlorooctane 73.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 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: 04/18/2023
 Reported: 04/24/2023
 Project Name: OUTLAND STATE
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 (1'-1.5') (H231865-04)

BTX 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	04/21/2023	ND	1.91	95.7	2.00	1.48		
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28		
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94		
Total BTX	<0.300	0.300	04/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/21/2023	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	04/21/2023	ND	211	105	200	3.85	
DRO >C10-C28*	<10.0	10.0	04/21/2023	ND	211	105	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/21/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 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: 04/18/2023
 Reported: 04/24/2023
 Project Name: OUTLAND STATE
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 (0'-.5') (H231865-05)

BTX 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	04/21/2023	ND	1.91	95.7	2.00	1.48	
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28	
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94	
Total BTX	<0.300	0.300	04/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/21/2023	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	04/21/2023	ND	187	93.5	200	3.32	
DRO >C10-C28*	<10.0	10.0	04/21/2023	ND	176	88.0	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	04/21/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 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: 04/18/2023
 Reported: 04/24/2023
 Project Name: OUTLAND STATE
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 (0'-.5') (H231865-06)

BTX 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	04/21/2023	ND	1.91	95.7	2.00	1.48	
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28	
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94	
Total BTX	<0.300	0.300	04/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/21/2023	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	04/21/2023	ND	187	93.5	200	3.32	
DRO >C10-C28*	165	10.0	04/21/2023	ND	176	88.0	200	1.39	
EXT DRO >C28-C36	102	10.0	04/21/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 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: 04/18/2023
Reported: 04/24/2023
Project Name: OUTLAND STATE
Project Number: 237257
Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H - 1 (0'-1.5') (H231865-07)

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	04/21/2023	ND	1.91	95.7	2.00	1.48		
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28		
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94		
Total BTEx	<0.300	0.300	04/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/21/2023	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	04/22/2023	ND	187	93.5	200	3.32	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	176	88.0	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 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: 04/18/2023
 Reported: 04/24/2023
 Project Name: OUTLAND STATE
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 2 (0'-.5') (H231865-08)

BTX 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	04/21/2023	ND	1.91	95.7	2.00	1.48		
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28		
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94		
Total BTX	<0.300	0.300	04/21/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/21/2023	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	04/22/2023	ND	187	93.5	200	3.32	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	176	88.0	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 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: 04/18/2023
Reported: 04/24/2023
Project Name: OUTLAND STATE
Project Number: 237257
Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H - 3 (0'-.5') (H231865-09)

BTX 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	04/21/2023	ND	1.91	95.7	2.00	1.48	
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28	
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82	
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94	
Total BTX	<0.300	0.300	04/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/21/2023	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	04/22/2023	ND	187	93.5	200	3.32	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	176	88.0	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 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: 04/18/2023
 Reported: 04/24/2023
 Project Name: OUTLAND STATE
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 4 (0'-.5') (H231865-10)

BTX 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	04/21/2023	ND	1.91	95.7	2.00	1.48		
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28		
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94		
Total BTX	<0.300	0.300	04/21/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/21/2023	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	04/22/2023	ND	187	93.5	200	3.32	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	176	88.0	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 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: 04/18/2023
 Reported: 04/24/2023
 Project Name: OUTLAND STATE
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 5 (0'-.5') (H231865-11)

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	04/21/2023	ND	1.91	95.7	2.00	1.48		
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28		
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94		
Total BTEx	<0.300	0.300	04/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/21/2023	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	04/22/2023	ND	187	93.5	200	3.32	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	176	88.0	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 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: 04/18/2023
 Reported: 04/24/2023
 Project Name: OUTLAND STATE
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 6 (0'-.5') (H231865-12)

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	04/21/2023	ND	1.91	95.7	2.00	1.48		
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28		
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94		
Total BTEx	<0.300	0.300	04/21/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/21/2023	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	04/22/2023	ND	187	93.5	200	3.32	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	176	88.0	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 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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Analytical Results For:

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

Received: 04/18/2023
 Reported: 04/24/2023
 Project Name: OUTLAND STATE
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 7 (0'-.5') (H231865-13)

BTX 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	04/21/2023	ND	1.91	95.7	2.00	1.48		
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28		
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94		
Total BTX	<0.300	0.300	04/21/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/21/2023	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	04/22/2023	ND	187	93.5	200	3.32	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	176	88.0	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 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: 04/18/2023
 Reported: 04/24/2023
 Project Name: OUTLAND STATE
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 8 (0'-.5') (H231865-14)

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	04/21/2023	ND	1.91	95.7	2.00	1.48		
Toluene*	<0.050	0.050	04/21/2023	ND	2.07	104	2.00	4.28		
Ethylbenzene*	<0.050	0.050	04/21/2023	ND	2.12	106	2.00	3.82		
Total Xylenes*	<0.150	0.150	04/21/2023	ND	6.44	107	6.00	3.94		
Total BTEx	<0.300	0.300	04/21/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/21/2023	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	04/22/2023	ND	187	93.5	200	3.32	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	176	88.0	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 65.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTE Project Manager: Becky Haskel Address: 402 E Wood Ave City: Carlsbad State: NM zip: 88220 Phone #: 432 924 8056 Fax #: Project #: 237257 Project Owner: Kirtland Project Name: Outland State Project Location: Lea County Sampler Name: cyberlimball		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
FOR LAB USE ONLY		MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV ACID/BASE: ICE / COOL OTHER:	
Lab I.D. H231865		Sample I.D. S-1 (4-5) S-2 (4-5) S-3 (4-5) S-4 (4-5) S-5 (4-5) H-1 (4-5) H-2 (4-5) H-3 (4-5) H-4 (4-5)		DATE 4/18	
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Relinquished By: Date: 4-18-23 Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Relinquished By: Date: 3:18 pm Received By:		Turnaround Time:		Bacteria (only) <input checked="" type="checkbox"/> Sample Condition Cool Intact <input checked="" type="checkbox"/> Observed Temp. °C No <input type="checkbox"/> Yes <input type="checkbox"/> Corrected Temp. °C	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 30 Corrected Temp. °C 24		CHECKED BY: (Initials)	
REMARKS:		REMARKS:			

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: N-LOGE		BILL TO		ANALYSIS REQUEST	
Project Manager: Betty Haskel		P.O. #:			
Address: 402 E Wood Ave		Company:			
City: Carlsbad		Attn:			
State: NM Zip: 88220		Address:			
Phone #: 43924-8056 Fax #:		City:			
Project #: 237257 Project Owner: Earthstone		State:			
Project Name: Outland State		Zip:			
Project Location: Lea County		Phone #:			
Sampler Name: Tyler Keimball		Fax #:			

FOR LAB USE ONLY		MATRIX	PRESERV	SAMPLING	DATE	TIME	Chlorides	pH	BTEX			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :
	H231865					X						
	11	1+5 (0-.5)	0									
	12	1+6 (0-.5)	0			X						
	13	1+7 (0-.5)	0			X						
14	1+8 (0-.5)	0			X							

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Relinquished By: [Signature]	Date: 4-19-23	Received By: [Signature]	Date: 4-19-23
Time: 3:10 PM	Time:	Remarks:	

Delivered By: (Circle One) <input type="radio"/> UPS <input type="radio"/> Bus <input type="radio"/> Other:	Observed Temp. °C 3.6	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) [Signature]	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Corrected Temp. °C 2.4	Thermometer ID # 113	Correction Factor -0.8°C			Observed Temp. °C
					Corrected Temp. °C



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

May 22, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND STATE UNIT #001Y

Enclosed are the results of analyses for samples received by the laboratory on 05/17/23 12:05.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 1 (1') (H232495-01)

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	05/20/2023	ND	2.42	121	2.00	6.00	
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	464	16.0	05/18/2023	ND	384	96.0	400	8.00		

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	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 2 (1') (H232495-02)

BTX 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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTX	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	448	16.0	05/18/2023	ND	384	96.0	400	8.00	

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	05/18/2023	ND	180	90.0	200	1.20	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	170	84.9	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 3 (1') (H232495-03)

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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTEx	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	240	16.0	05/18/2023	ND	384	96.0	400	8.00		

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	05/18/2023	ND	180	90.0	200	1.20	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	170	84.9	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 4 (1') (H232495-04)

BTX 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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTX	<0.300	0.300	05/20/2023	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	48.0	16.0	05/18/2023	ND	384	96.0	400	8.00		

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	05/18/2023	ND	180	90.0	200	1.20	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	170	84.9	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 5 (1') (H232495-05)

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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTEx	<0.300	0.300	05/20/2023	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	32.0	16.0	05/18/2023	ND	384	96.0	400	8.00		

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	05/18/2023	ND	180	90.0	200	1.20	
DRO >C10-C28*	89.2	10.0	05/18/2023	ND	170	84.9	200	2.20	
EXT DRO >C28-C36	36.5	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 6 (1') (H232495-06)

BTX 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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTX	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	05/18/2023	ND	384	96.0	400	8.00		

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	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 105 % 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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (0-1') (H232495-07)

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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTEx	<0.300	0.300	05/20/2023	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	32.0	16.0	05/18/2023	ND	384	96.0	400	8.00		

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	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 (0-1') (H232495-08)

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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTEx	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	320	16.0	05/18/2023	ND	384	96.0	400	8.00	

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	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (0-1') (H232495-09)

BTX 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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTX	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	05/18/2023	ND	384	96.0	400	8.00		

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	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (0-1') (H232495-10)

BTX 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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTX	<0.300	0.300	05/20/2023	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	05/18/2023	ND	384	96.0	400	8.00		

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	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (0-1') (H232495-11)

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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTEx	<0.300	0.300	05/20/2023	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	16.0	16.0	05/18/2023	ND	384	96.0	400	8.00		

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	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 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: 05/17/2023
 Reported: 05/22/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - EDDY COUNTY

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 (0-1') (H232495-12)

BTX 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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTX	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	240	16.0	05/18/2023	ND	384	96.0	400	8.00		

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	05/18/2023	ND	211	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	211	105	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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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.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No:

H232495

Page 1 of 2

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating LLC
Address:	701 Tradewinds Blvd.	Address:	600 N. Martenfeld, Suite 1000
City, State ZIP:	Midland TX, 79701	City, State ZIP:	Midland TX, 79701
Phone:	432-766-1918	Email:	cmartin@earthstoneenergy.com

Work Order Comments	
Program: UST/PS <input type="checkbox"/> PR <input type="checkbox"/> Brownie <input type="checkbox"/> R <input type="checkbox"/> Super <input type="checkbox"/>	
State of Project:	
Reporting: Level <input type="checkbox"/> Level <input type="checkbox"/> PST/UT <input type="checkbox"/> TR <input type="checkbox"/> L <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAP <input type="checkbox"/> Other:	

Project Name:	Outland State Unit #001Y		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	237257		<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush															None: NO DI Water: H ₂ O	
Project Location:	Eddy Co, NM		Due Date:	TAT starts the day received by the lab, if received by 4:30pm														Cool: Cool MeOH: Me		
Sampler's Name:	Kenny Han																HCL: HC HNO ₃ : HN			
PO #:																	H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP	
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113														NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.6%														Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-5.0°C														Zn Acetate+NaOH: Zn			
Total Containers:	12	Corrected Temperature:	-5.6°C														NaOH+Ascorbic Acid: SAPC			
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-1 (1')	5/16/2023		X		Comp	1	X	X	X	X										
CS-2 (1')	5/16/2023		X		Comp	1	X	X	X	X										
CS-3 (1')	5/16/2023		X		Comp	1	X	X	X	X										
CS-4 (1')	5/16/2023		X		Comp	1	X	X	X	X										
CS-5 (1')	5/16/2023		X		Comp	1	X	X	X	X										
CS-6 (1')	5/16/2023		X		Comp	1	X	X	X	X										
SW-1 (0-1')	5/16/2023		X		Comp	1	X	X	X	X										
SW-2 (0-1')	5/16/2023		X		Comp	1	X	X	X	X										
SW-3 (0-1')	5/16/2023		X		Comp	1	X	X	X	X										
SW-4 (0-1')	5/16/2023		X		Comp	1	X	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
<i>[Signature]</i>	<i>[Signature]</i>	5/17/23 8:45am	<i>[Signature]</i>	<i>[Signature]</i>	5-17-23 1:05



Chain of Custody

Work Order No: H232495

Page 1 of 2

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating LLC
Address:	701 Tradewinds Blvd.	Address:	600 N. Marlenfeld, Suite 1000
City, State ZIP:	Midland TX, 79701	City, State ZIP:	Midland TX, 79701
Phone:	432-766-1918	Email:	cmartin@earthstoneenergy.com

Work Order Comments			
Program:	UST/PS <input type="checkbox"/>	PR <input type="checkbox"/>	Brownfite <input type="checkbox"/> s R <input type="checkbox"/> Super <input type="checkbox"/>
State of Project:			
Reporting: Level <input type="checkbox"/>	Level <input type="checkbox"/>	PST/U <input type="checkbox"/>	TR <input type="checkbox"/> p Ld <input type="checkbox"/>
Deliverables: EDD <input type="checkbox"/>	Adapt <input type="checkbox"/>	Other:	

[illegible]



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

June 02, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND STATE UNIT #001Y

Enclosed are the results of analyses for samples received by the laboratory on 05/31/23 13:42.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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: 05/31/2023
 Reported: 06/02/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 5A (1.5') (H232767-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.26	113	2.00	2.51	
Toluene*	<0.050	0.050	06/01/2023	ND	2.25	113	2.00	2.60	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.21	110	2.00	3.09	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.75	113	6.00	2.10	
Total BTEX	<0.300	0.300	06/01/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/01/2023	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	06/01/2023	ND	215	107	200	2.74	
DRO >C10-C28*	14.1	10.0	06/01/2023	ND	216	108	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	06/01/2023	ND					

Surrogate: 1-Chlorooctane 103 % 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: 05/31/2023
 Reported: 06/02/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 (1-1.5') (H232767-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.26	113	2.00	2.51	
Toluene*	<0.050	0.050	06/01/2023	ND	2.25	113	2.00	2.60	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.21	110	2.00	3.09	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.75	113	6.00	2.10	
Total BTEx	<0.300	0.300	06/01/2023	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	32.0	16.0	06/01/2023	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	06/01/2023	ND	161	80.6	200	1.79	
DRO >C10-C28*	<10.0	10.0	06/01/2023	ND	166	83.1	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 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: 05/31/2023
 Reported: 06/02/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 8 (1-1.5') (H232767-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.26	113	2.00	2.51	
Toluene*	<0.050	0.050	06/01/2023	ND	2.25	113	2.00	2.60	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.21	110	2.00	3.09	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.75	113	6.00	2.10	
Total BTEx	<0.300	0.300	06/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/01/2023	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	06/01/2023	ND	161	80.6	200	1.79	
DRO >C10-C28*	<10.0	10.0	06/01/2023	ND	166	83.1	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	06/01/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 10327107Page 1 of 1

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating LLC
Address:	701 Tradewinds Blvd.	Address:	600 N. Marientfield, Suite 1000
City, State ZIP:	Midland TX, 79701	City, State ZIP:	Midland TX, 79701
Phone:	432-766-1918	Email:	cmartin@earthstoneenergy.com

Work Order Comments			
Program: UST/PS	<input type="checkbox"/> PR	<input type="checkbox"/> Brownfield	<input type="checkbox"/> R
State of Project:	<input type="checkbox"/> Level	<input type="checkbox"/> PST/U	<input type="checkbox"/> TR
Reporting: Level	<input type="checkbox"/> Level	<input type="checkbox"/> PST/U	<input type="checkbox"/> TR
Deliverables: EDD	<input type="checkbox"/> ADAPT	<input type="checkbox"/> Other:	

Project Name:	Outland State Unit #001Y	Turn Around	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes							
Project Number:	237257	Due Date:	TAT starts the day received by the lab, if received by 4:30pm																None: NO						
Project Location:	Lea Co. NM																		Cool: Cool						
Sampler's Name:	Jordan Tyner																		HCL: HC						
PO #:																			H ₂ SO ₄ : H ₂						
SAMPLE RECEIPT	Temp Blank:	Yes	No	Yes	No	Wet Ice:	Yes	No													H ₃ PO ₄ : HP				
Received Intact:	Yes	No	Yes	No	Thermometer ID:	113													NaHSO ₄ : NABIS						
Cooler Custody Seals:	Yes	No	Yes	No	Correction Factor:	-0.10°C													Na ₂ S ₂ O ₃ : NaSO ₃						
Sample Custody Seals:	Yes	No	Yes	No	Temperature Reading:	4.8°C													Zn Acetate+NaOH: Zn						
Total Containers:	3	Corrected Temperature:	3.0°C													NaOH+Ascorbic Acid: SAPC									
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments						
CS-5A (1.5')	5/26/2023		X		Comp	1	X	X	X													703			
SW-7 (1-1.5')	5/26/2023		X		Comp	1	X	X	X																
SW-8 (1-1.5')	5/26/2023		X		Comp	1	X	X	X																

Additional Comments: Billing Code: EARTHSTONE

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 \$35.00 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
<i>[Signature]</i>	<i>[Signature]</i>	5-31-23 1342			



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

June 08, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: OUTLAND STATE UNIT #001Y

Enclosed are the results of analyses for samples received by the laboratory on 06/07/23 11:03.

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: 06/07/2023
 Reported: 06/08/2023
 Project Name: OUTLAND STATE UNIT #001Y
 Project Number: 237257
 Project Location: EARTHSTONE - LEA COUNTY

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 7 (1') (H232885-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2023	ND	1.94	97.2	2.00	0.736	QM-07
Toluene*	<0.050	0.050	06/07/2023	ND	1.93	96.3	2.00	1.94	QM-07
Ethylbenzene*	<0.050	0.050	06/07/2023	ND	1.91	95.4	2.00	1.17	QM-07
Total Xylenes*	<0.150	0.150	06/07/2023	ND	5.86	97.7	6.00	1.10	QM-07
Total BTX	<0.300	0.300	06/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/07/2023	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2023	ND	201	101	200	4.36	
DRO >C10-C28*	<10.0	10.0	06/07/2023	ND	168	84.2	200	0.635	
EXT DRO >C28-C36	<10.0	10.0	06/07/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 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

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



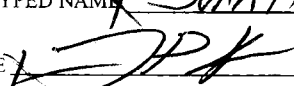

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTC		P.O. #:		BILL TO												ANALYSIS REQUEST														
Project Manager: Betty Haskell		Company:																												
Address: 402 E Wood Ave		Attn:																												
City: Carlisle		Address:																												
Phone #: 432-724-8856		City:																												
Fax #: 237-287		State:																												
Project #: 237287		Zip:																												
Project Name: Outland State		Phone #:																												
Project Location: Los Comity		Fax #:																												
Sampler Name: Tyler Alumbaugh																														
FOR LAB USE ONLY																														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING	DATE	TIME																			
H232885	CS-7 (1)	C1		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	6-7-23	10:00	X	TPH	X	Chlorides	X	BTEX										
<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. 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																														
Relinquished By: [Signature]		Date: 6-7-23		Received By: [Signature]		Date: 6-7-23		Time: 11:03		Received By: [Signature]		Time:																		
Relinquished By:		Date:		Received By:		Date:		Time:		Received By:		Time:																		
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition														
Sampler - UPS - Bus - Other:		2.1		1.5		Cool Intact		[Signature]		Thermometer ID #113		Rush		Cool Intact		Observed Temp. °C														
FORM 008 R 3-3-07 7/0/22						Yes No						Yes No		Yes No		Corrected Temp. °C														

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

APPENDIX E: WASTE MANIFEST

<h1 style="margin: 0;">LEA LAND DISPOSAL SITE NEW MEXICO</h1> <p style="margin: 0;">758h MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048</p>																				
<h2 style="margin: 0;">LEA LAND, LLC</h2> <p style="margin: 0;">1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 Standard</p>																				
NON-HAZARDOUS WASTE MANIFEST				NO 180670		1. PAGE ___ OF ___		2. TRAILER NO. 009												
GENERATOR'S CERTIFICATION:	3. COMPANY NAME EARTHSTONE ENERGY			4. ADDRESS 1400 Woodloch forest Dr. Suite 300			5. PICK-UP DATE 6/12/2023													
	PHONE NO. (281) 298-4246			CITY STATE ZIP the Woodlands TX 77380			6. TNRCC I.D. NO.													
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS		9. TOTAL QUANTITY											
	a. Non-Regulated, Non Hazardous Waste						No. 1 Type CM		10. UNIT Wt/Vol.											
	b.								11. TEXAS WASTE ID #											
TRANSPORTER'S CERTIFICATION:	c.																			
	d. WT: 39820																			
	12. COMMENTS OR SPECIAL INSTRUCTIONS: OUTLAND STATE UNIT #001Y						13. WASTE PROFILE NO.													
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT																			
	NAME JOE ONTIVEROS			PHONE NO 575-887-4048			24-HOUR EMERGENCY NO.													
DISPOSAL FACILITY'S CERTIFICATION:	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC																			
	PRINTED/TYPED NAME Christopher Martin					SIGNATURE					DATE									
	16. TRANSPORTER (1)					17. TRANSPORTER (2)														
	NAME: Standard Safety & Supply					NAME:														
	TEXAS I.D. NO.					TEXAS I.D. NO.														
DISPOSAL FACILITY'S CERTIFICATION:	IN CASE OF EMERGENCY CONTACT: Luis Gavaldon					IN CASE OF EMERGENCY CONTACT:														
	EMERGENCY PHONE: (432) 741-2509					EMERGENCY PHONE:														
	18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material														
	PRINTED/TYPED NAME John HARFORD					PRINTED/TYPED NAME														
	SIGNATURE  DATE 6/12/2023					SIGNATURE DATE														
DISPOSAL FACILITY'S CERTIFICATION:	Lea Land, LLC					ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM					PHONE: 575-887-4048									
	PERMIT NO. WM-01-035 - New Mexico					20. COMMENTS														
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.																			
	AUTHORIZED SIGNATURE 					CELL NO. 2A					DATE 6/12/2023					TIME 903				

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

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

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

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

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

CONDITIONS

Action 281424

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 281424
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/2/2023