

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	nAPP2315638319
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) nAPP2315638319
Contact mailing address 600 N. Marienfeld, Suite 1000, Midland, TX 79701	

Location of Release Source

Latitude 32.311351 Longitude -104.286988
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Dark Canyon 15-22 State WCB 2H	Site Type Separator
Date Release Discovered 5/24/23	API# (if applicable) 30-015-44538

Unit Letter	Section	Township	Range	County
D	15	23S	26E	Eddy

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) 20	Volume Recovered (bbls) 15
	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)

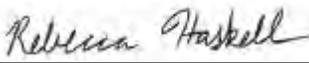
Cause of Release Nipple under separator blew a pin size hole causing a mess. Shut well in, drain separator, blow down separator. Replace nipple.

Incident ID	nAPP2315638319
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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></u> Date: <u>6/5/23</u>
email: <u>bhaskell@ntglobal.com</u> Telephone: <u>432-766-1918</u>
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>06/07/2023</u>

Incident ID	nAPP2315638319
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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 1/2-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.

Incident ID	nAPP2315638319
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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: 8/22/2023

Email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Shelly Wells Date: 8/23/2023

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Rebecca Haskell Title: Senior Project Manager

Signature: Rebecca Haskell Date: 8/22/2023

email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Shelly Wells Date: 8/23/2023

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____



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

August 22, 2023

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

**Re: Site Characterization and Remediation Update Report
Dark Canyon 15-22 State WCB 2H
Earthstone Operating, LLC
Incident ID: nAPP2315638319
D-15-23S-26E, Eddy County, New Mexico**

1. Introduction

New Tech Global Environmental, LLC (NTGE), on behalf of Earthstone Operating, LLC (Earthstone), submits this Site Characterization and Remediation Update Report to the NMOCD District 2 Office in Artesia, New Mexico. This report provides documentation of initial soil delineation, sampling, and analysis conducted to date in the affected areas at the Dark Canyon 15-22 State WCB 2H Release Site (Site). The Site is located in Unit Letter D, Section 15 of Township 23 South and Range 26 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.311351° N Latitude and -104.286988° W Longitude. Figures 1 and 2 depict the Site location. The initial footprint of the release is depicted on Figure 3.

2. Background

A C-141, Release Notification, for this release was submitted to the NMOCD on June 5, 2023. The C-141 stated that twenty (20) barrels (bbls) of produced water were released with fifteen (15) recovered for a net loss of five (5) bbls. The release occurred on May 24, 2023, when a nipple under the separator developed a pin size hole resulting in a release of produced water. A vac truck was called, and soil was excavated and stockpiled to prevent further spread of fluids.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number nAPP2315638319. The Release Notification, Site Assessment/Characterization, and Remediation Plan portions of Form C-141 are attached to the front of this report.

3. Groundwater and Site Characterization

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

The area is located in an area of medium karst potential. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is an USGS well within a half mile radius of the location showing groundwater to be at 255.90 feet below ground surface (bgs) as measured on October 22, 1987. The data for depth to groundwater is greater than twenty-five (25) years old and can't be utilized for this release. No other receptors were noted within the specified boundaries or distancing from the site. Figure 3, Site Assessment Map, depicts the boundary of the release. The Site characterization documentation (NM Oil and Gas Map, Points of Diversion, Significant Watercourse Map, Wetlands Map, and FEMA Map) are provided as Attachment A. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i), the Site is located within an area that meets the Closure Criteria for depth to groundwater less than fifty (50) feet in Table I. The soil and closure criteria are listed below:

General Site Characterization and Groundwater: Table 3.1

Site Characterization	Average Groundwater Depth (ft)
No Receptors Found	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)	Total 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 Excavation and Soil Delineation Assessment Summary and Findings

On June 19, 2023, June 21, 2023, and June 28, 2023, NTGE conducted initial assessment activities to determine the extent of impacts at the Dark Canyon 15-22 State WCB 2H (Site). A total of seven (7) vertical sample points (V-1 through V-7) as well as six (6) horizontal sample points (H-1 through H-6) were installed to characterize the impacted area due to the release. Soil samples were collected in half foot intervals ranging from depths of zero (0) to four-and-a-half (4.5) feet bgs. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by EPA Method 8015B Modified, and chloride by EPA Method SM4500. by Cardinal Laboratories (Cardinal) in Hobbs, New Mexico. Analytical results from NTGE's assessment indicated that chloride concentrations exceeded the

Table I Closure Criteria in V-2, V-3, V-4, and V-7, with vertical delineation not completed in V-2 and V-3. Figure 3, Site Assessment Map, depicts the outline of the release area and sample locations. Analytical results are provided on Table 1, Summary of Soil Analytical Data, and in the Laboratory Analytical Reports and Chain-of-Custody Documentation provided in Attachment C. A Photographic Log is provided as Attachment B.

5. nAPP2315638319 Remediation Plan

- The area represented by V-2 and V-3 will be excavated past five (5) feet bgs or until chloride concentrations are less than Table I Closure Criteria. Due to the proximity to the separators some areas may need to be deferred if excavation activities pose a threat to the structural integrity. If deferral is required, an effort to fully delineate the area will be attempted.
- The area represented by V-4 through V-7 will be excavated up to one (1) foot bgs or until chloride concentrations are less than Table I Closure Criteria.
- The area represented by V-1 will be addressed with a superficial scrape to cosmetically address the surface.
- Confirmation samples will be collected from areas representing no more than two hundred (200) square feet and taken to a laboratory for analysis of BTEX, TPH, and chloride.
- Once remediation activities are completed the excavation will be backfilled with non-impacted, like sourced, material, and a closure report will be prepared and submitted to the NMOCD.
- It is anticipated that remediation activities will be completed within ninety (90) days after work plan approval.
- NTGE anticipates approximately one hundred sixty-nine (169) cubic yards of material to be excavated and disposed of at an NMOCD approved disposal facility.

Figure 4, Proposed Excavation Map, depicts the outline of the proposed excavation areas and assessment sample locations. The Release Notification, Site Assessment/Characterization, and Remediation Plan portions of Form C-141 are attached to 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



Becky Haskell
Senior Project Manager

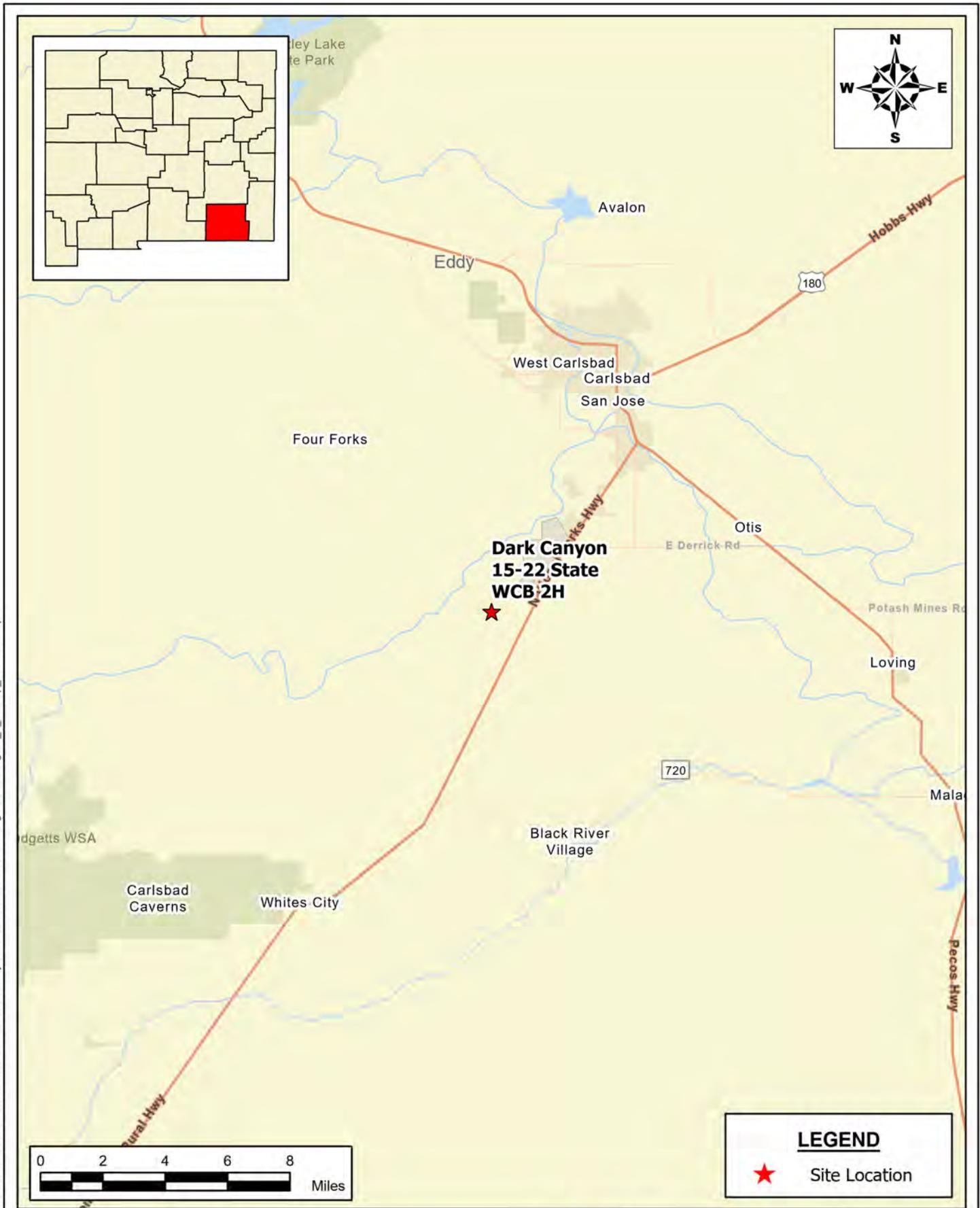
Attachments:

- | | |
|-----------|---------------------|
| Figure 1: | Site Location Map |
| Figure 2: | Topographic Map |
| Figure 3: | Site Assessment Map |

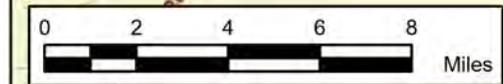
Figure 4:	Proposed Excavation Map
Table 1:	Summary of Soil Analytical Data
Attachment A:	Site Characterization Documentation
Attachment B:	Photographic Log
Attachment C:	Laboratory Analytical Reports and Chain -of-Custody Documentation

FIGURES





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LEGEND

★ Site Location

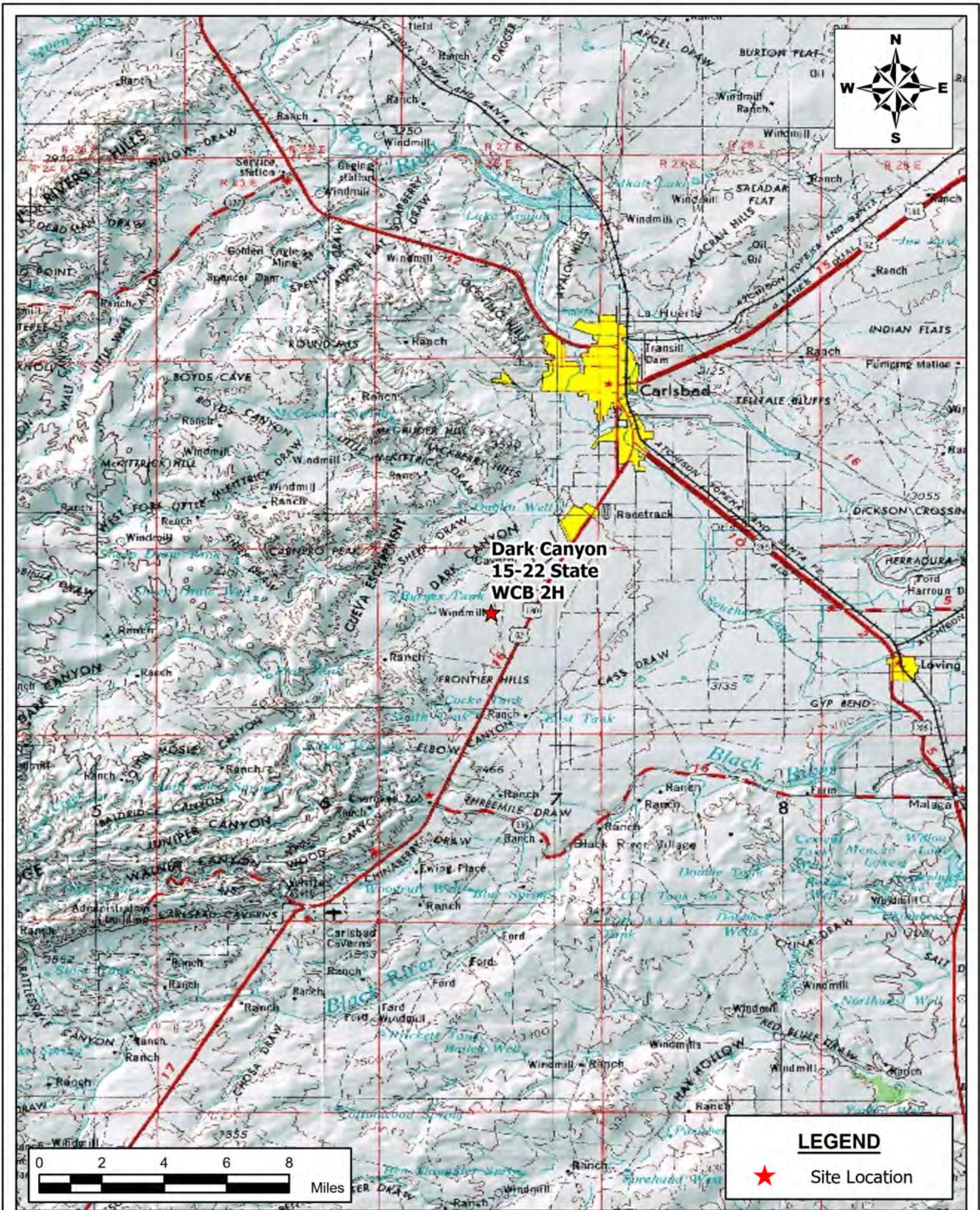
SITE LOCATION MAP
EARTHSTONE OPERATING, LLC
 DARK CANYON 15-22 STATE WCB 2H
 EDDY COUNTY, NEW MEXICO
 32.311351, -104.286988

SCALE: As Shown Date: 8/8/2023 PROJECT #: 237454


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

DRAWING NUMBER:
FIGURE 1
 SHEET NUMBER:
1 of 1



Document Path: P:\2023 PROJECTS\EARTHSTONE\RSC\237454 Dark Canyon 15-22 State WCB 2H - Figures\GIS\Figure_2_TOPOMap_08082023.aprx

TOPOGRAPHIC MAP
EARTHSTONE OPERATING, LLC
 DARK CANYON 15-22 STATE WCB 2H
 EDDY COUNTY, NEW MEXICO
 32.311351, -104.286988

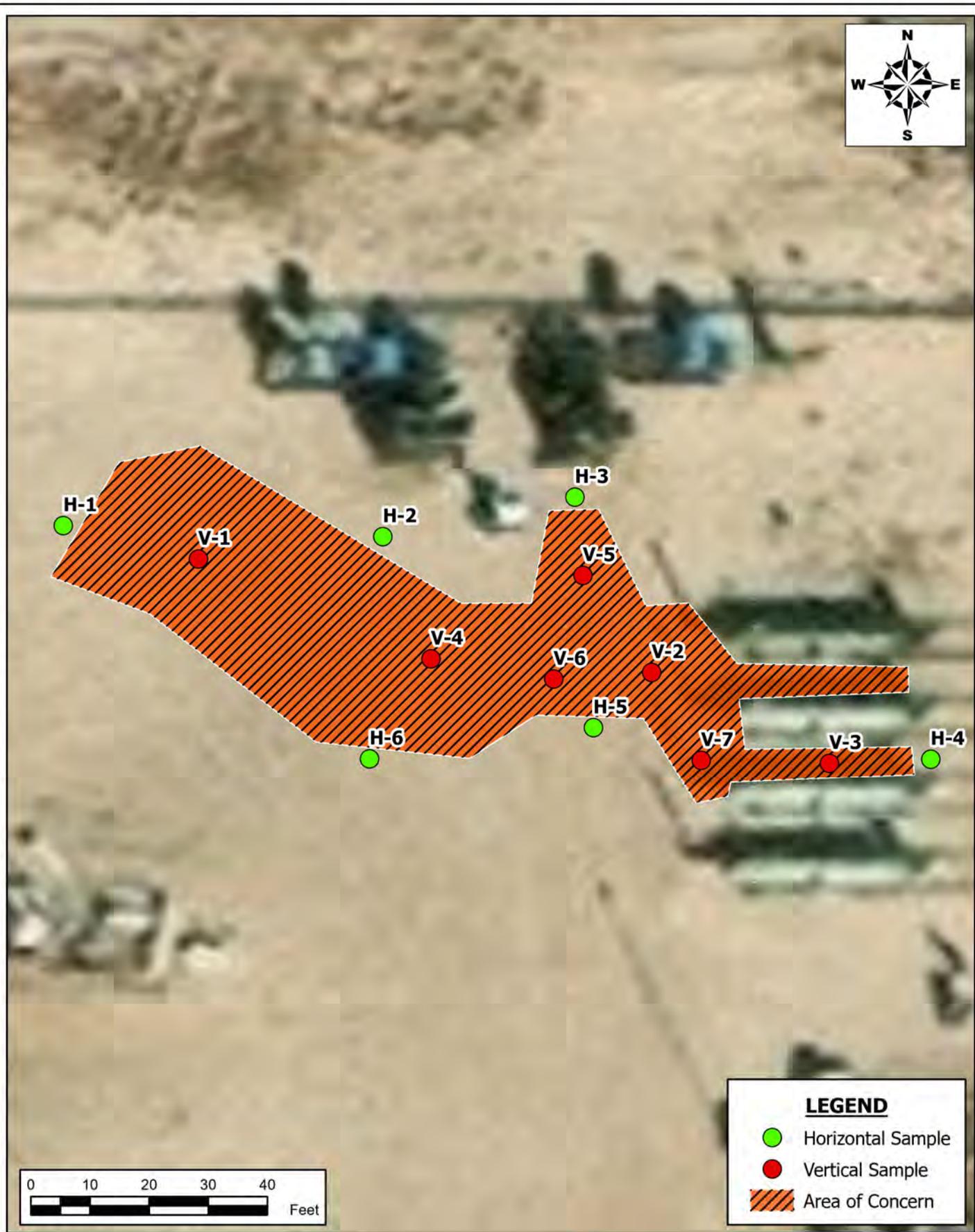
SCALE: As Shown Date: 8/8/2023 PROJECT #: 237454

NTG
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 Web: www.ntglobal.com

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

DRAWING NUMBER:
FIGURE 2
 SHEET NUMBER:
1 of 1

Document Path: P:\2023 PROJECTS\EARTHSTONE\RSC\237454 Dark Canyon 15-22 State WCB 2H17 - Figures\GIS\Figure_3_SiteAssessmentMap_08162023.aprx



LEGEND

- Horizontal Sample
- Vertical Sample
- Area of Concern

SITE ASSESSMENT MAP
EARTHSTONE OPERATING, LLC
 DARK CANYON 15-22 STATE WCB 2H
 EDDY COUNTY, NEW MEXICO
 32.311351, -104.286988

SCALE: As Shown Date: 8/16/2023 PROJECT #: 237454

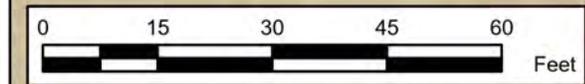
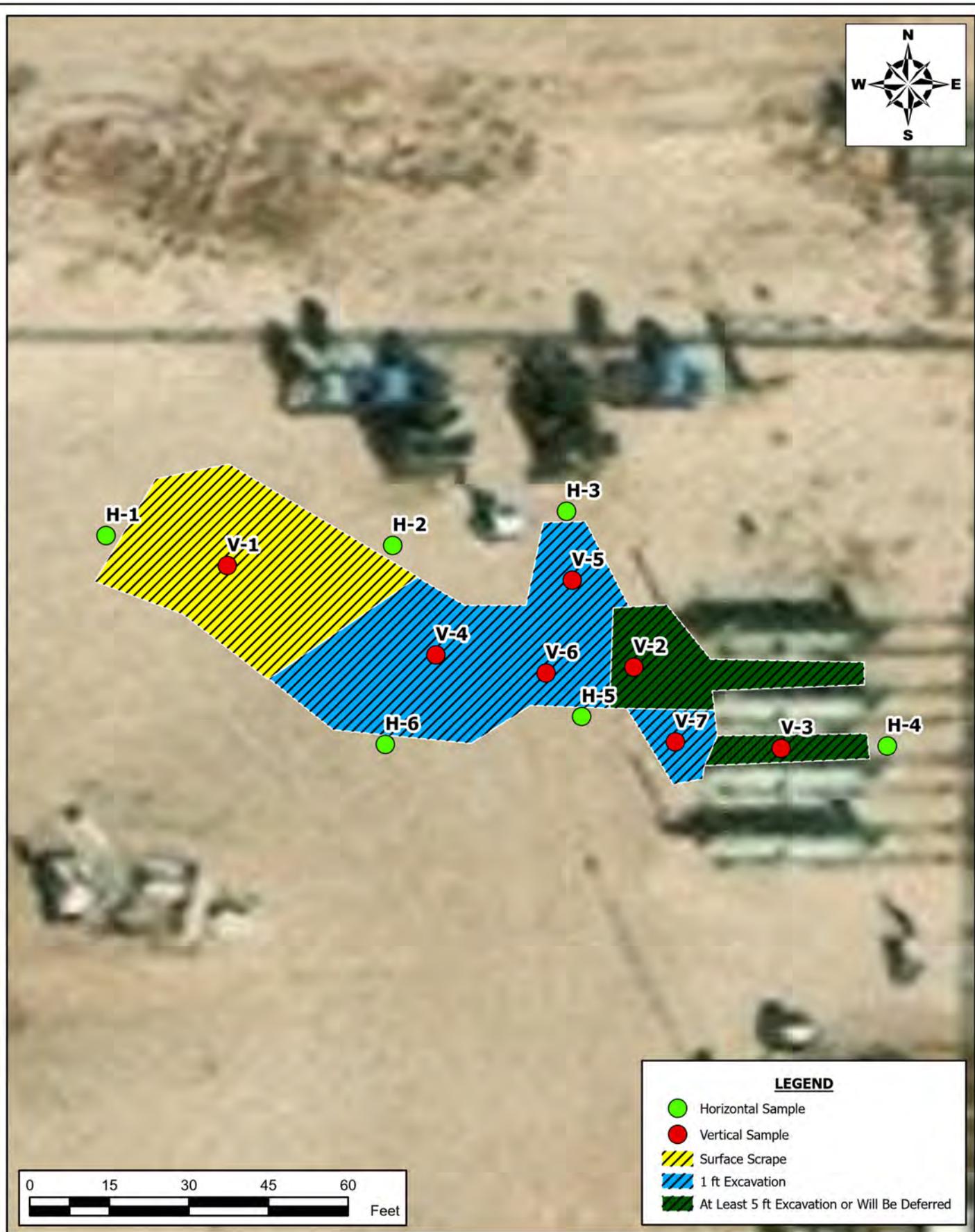
 **NTG**
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NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N
3. Results in Milligrams Per Kilograms (MG/KG)
4. See Table 1 for Full Analytical Results/Details
5. Yellow Cells Indicate Exceedance

DRAWING NUMBER:
FIGURE 3
 SHEET NUMBER:
1 of 1

Document Path: P:\2023 PROJECTS\EARTHSTONE\RSC\237454 Dark Canyon 15-22 State WCB 2H17 - Figures\GIS\Figure_4_ProposedExcavationMap_08222023.aprx



LEGEND

- Horizontal Sample
- Vertical Sample
- Surface Scrape
- 1 ft Excavation
- At Least 5 ft Excavation or Will Be Deferred

PROPOSED EXCAVATION MAP
EARTHSTONE OPERATING, LLC
 DARK CANYON 15-22 STATE WCB 2H
 EDDY COUNTY, NEW MEXICO
 32.311351, -104.286988

SCALE: As Shown Date: 8/22/2023 PROJECT #: 237454

NTG
 Environmental

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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 - Initial Assessment Samples
Dark Canyon 15-22 State WCB 2H
Earthstone Operating, LLC
Eddy, County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH					Chloride (mg/kg)	
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	GRO + DRO (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (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	
Delineation Samples														
V-1	6/19/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	320
	6/19/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	6/19/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	160
V-2	6/19/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,840
	6/19/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	384
	6/19/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	672
	6/19/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	5,730
	6/21/2023	(4-4.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	5,440
V-3	6/19/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	3,880
	6/19/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	5,200
	6/19/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,400
	6/19/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,320
V-4	6/19/2023	(4-4.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	7,200
	6/21/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,280
	6/21/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	144
V-5	6/21/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
	6/21/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	6/28/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
V-6	6/28/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	6/28/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	6/28/2023	(4-4.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
V-7	6/28/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	144
	6/28/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-1	6/28/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	6/28/2023	(0-0.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	704
H-2	6/19/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	336
H-3	6/19/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	240
H-4	6/19/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.2	<10.0	<10.0	<10.0	11.2	112
H-5	6/19/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	128
H-6	6/21/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	112
H-7	6/21/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
H-8	6/21/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	144

Notes:

1. Values reported in mg/kg
2. < = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B
5. TPH analyses by EPA Method SW 8015 Mod.
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

SP-1 Sample Point Excavated



Prepared By:

ATTACHMENT A: SITE CHARACTERIZATION DOCUMENTATION



Site Characterization Map



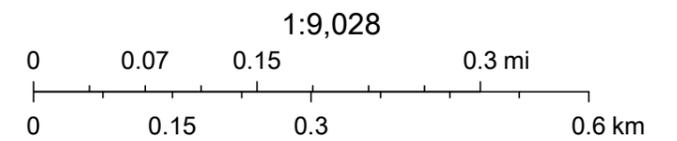
8/16/2023, 1:37:08 PM

Site Location
 USGS Historical GW Wells
 OSE Streams

OSE Water PODs Karst Occurrence Potential

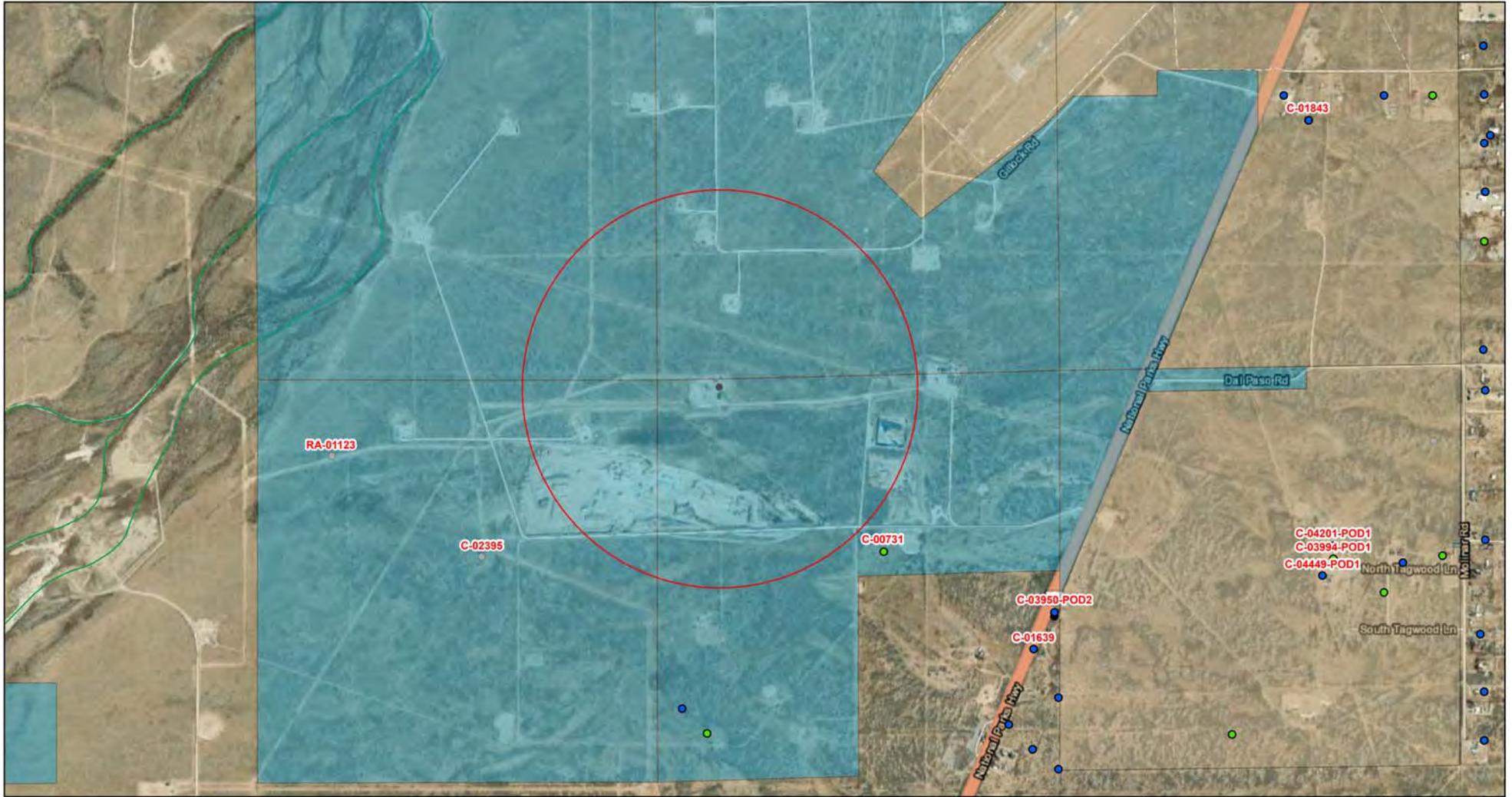
Pending
 OSW Water Bodys

Unknown
 Medium



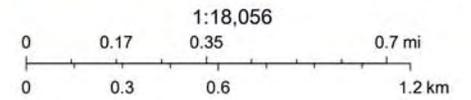
BLM, OCD, New Mexico Tech, USGS, OCD, Esri, HERE, Garmin, iPC, Maxar, NM OSE

OSE POD Locations Map



8/8/2023, 10:40:08 AM

- | | | | |
|-----------------|-------------------------|------------------------------|------------------|
| GIS WATERS PODs | ● Inactive | New Mexico State Trust Lands | NHD Flowlines |
| ● Active | ● Pending | ■ Subsurface Estate | — Stream River |
| ● Pending | □ OSE District Boundary | ■ Both Estates | ▭ 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.

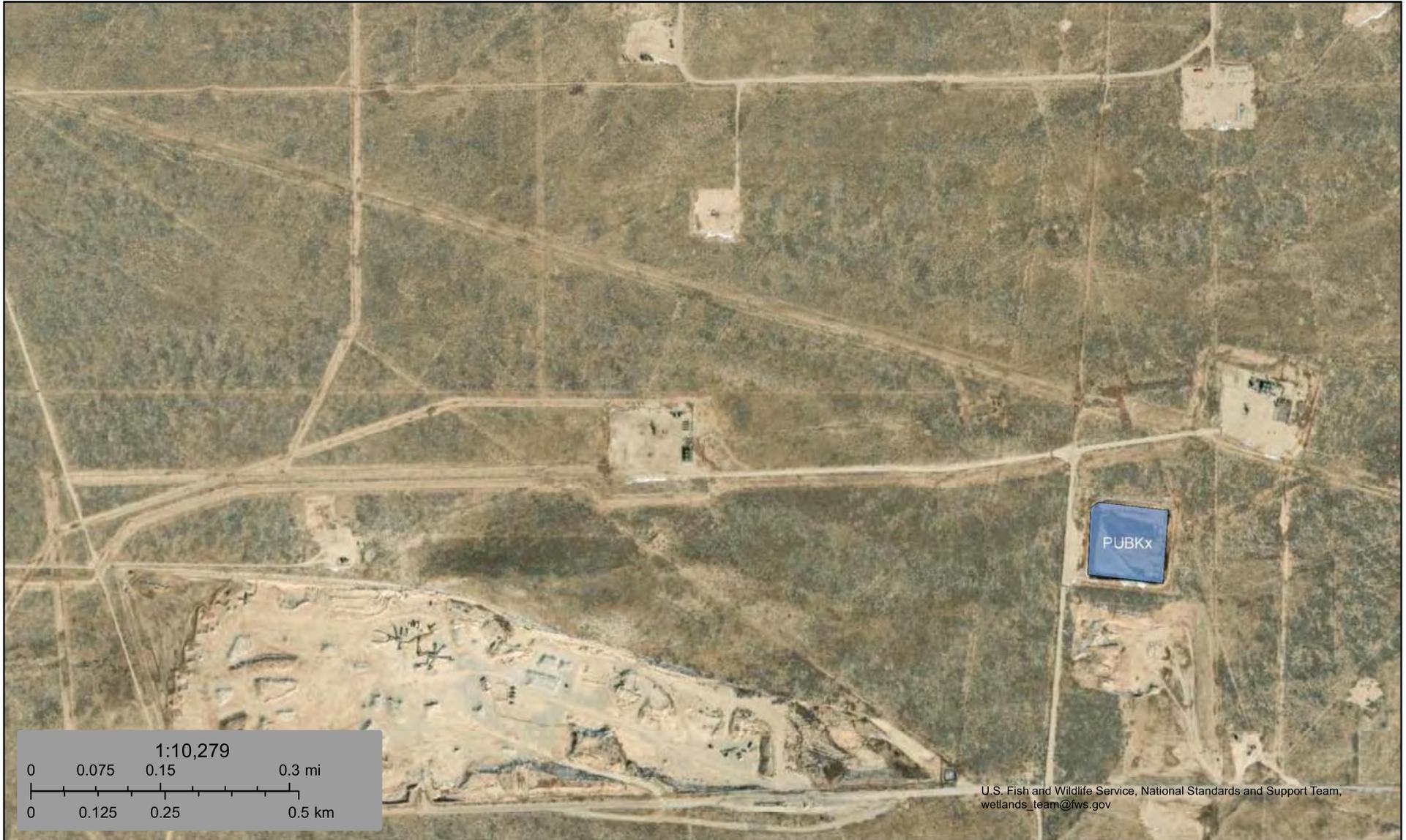
Earthstone Operating, LLC

Significant Watercourse Map

Legend *Page 20 of 67*

-  1/2 Miles Radius
-  300 Foot Radius
-  Kitchen Cove
-  Site Location





August 8, 2023

Wetlands

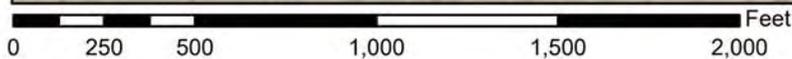
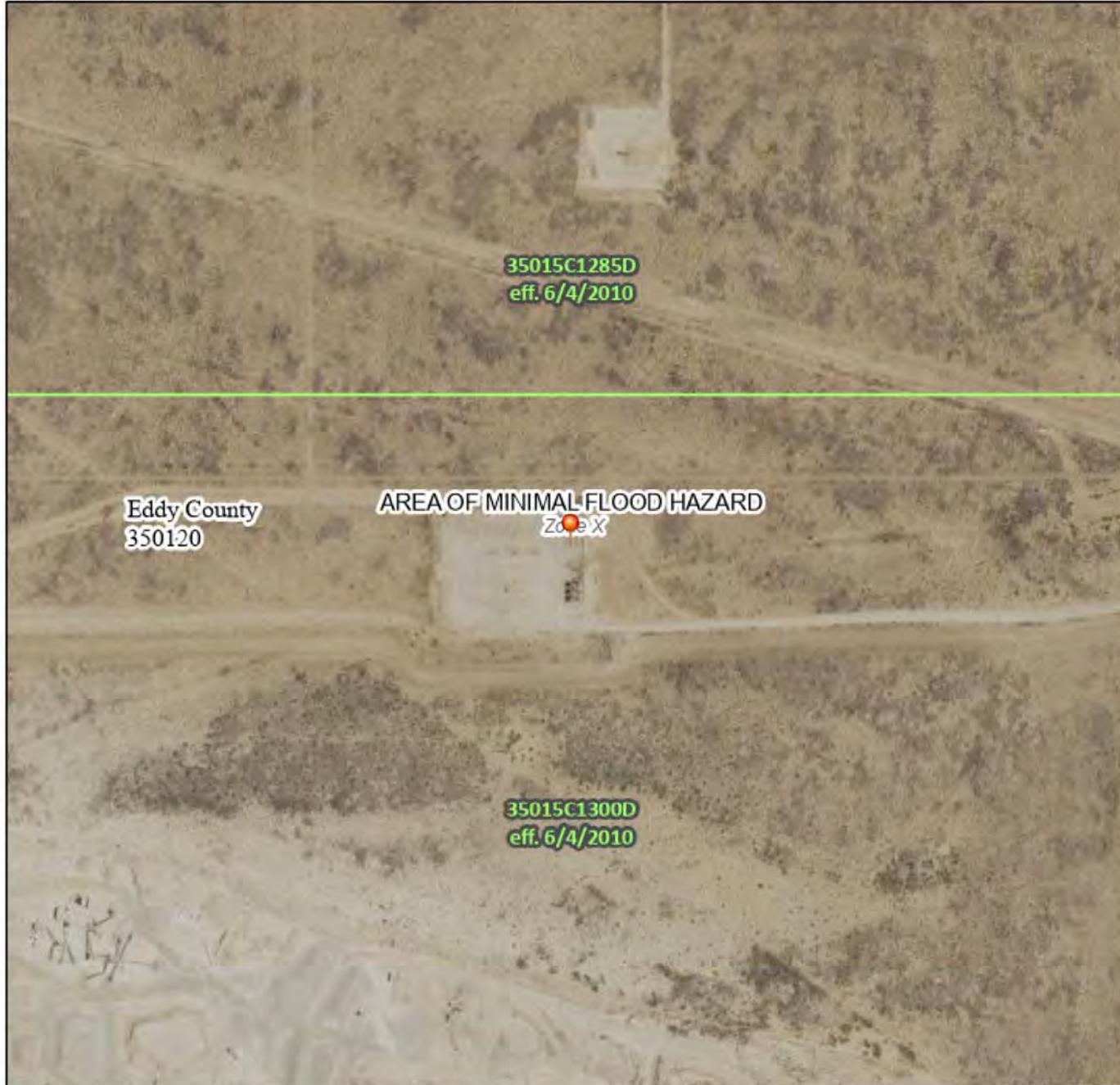
- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond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



104°17'32"W 32°18'56"N



1:6,000

104°16'54"W 32°18'26"N

Basemap Imagery Source: USGS National Map 2023

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 |
| | | Profile Baseline |
| | | Hydrographic Feature |
| 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 8/8/2023 at 12:15 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.

ATTACHMENT B: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

Earthstone Operating, LLC

Photograph No. 1

Facility: Dark Canyon 15-22 State WCB 2H

County: Eddy County, New Mexico

Description:
Area of Concern.



Photograph No. 2

Facility: Dark Canyon 15-22 State WCB 2H

County: Eddy County, New Mexico

Description:
Area of Concern.



Photograph No. 3

Facility: Dark Canyon 15-22 State WCB 2H

County: Eddy County, New Mexico

Description:
Area of Concern.



PHOTOGRAPHIC LOG

Earthstone Operating, LLC

Photograph No. 4

Facility: Dark Canyon 15-22 State WCB 2H

County: Eddy County, New Mexico

Description:
Area of Concern.



Photograph No. 5

Facility: Dark Canyon 15-22 State WCB 2H

County: Eddy County, New Mexico

Description:
Area of Concern.



Photograph No. 6

Facility: Dark Canyon 15-22 State WCB 2H

County: Eddy County, New Mexico

Description:
Area of Concern.



ATTACHMENT C: LABORATORY ANALYTICAL REPORTS AND CHAIN-OF- CUSTODY DOCUMENTATION





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

June 26, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: DARK CANYON 15-22 STATE WCB 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/21/23 14:50.

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".

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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 1 (0-6") (H233216-01)

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	06/23/2023	ND	2.22	111	2.00	2.00	
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 1 (1-1.5') (H233216-02)

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	06/23/2023	ND	2.22	111	2.00	2.00	
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 1 (2-2.5') (H233216-03)

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	06/23/2023	ND	2.22	111	2.00	2.00	
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82	
Total BTEX	<0.300	0.300	06/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 2 (0-6") (H233216-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.22	111	2.00	2.00	
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 2 (1-1.5') (H233216-05)

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	06/23/2023	ND	2.22	111	2.00	2.00	
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 2 (2-2.5') (H233216-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.22	111	2.00	2.00	
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 2 (3-3.5') (H233216-07)

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	06/23/2023	ND	2.22	111	2.00	2.00	
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82	
Total BTEX	<0.300	0.300	06/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	5730	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 2 (4-4.5') (H233216-08)

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	06/23/2023	ND	2.22	111	2.00	2.00	
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82	
Total BTEX	<0.300	0.300	06/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	5440	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 3 (0-6") (H233216-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.22	111	2.00	2.00	
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82	
Total BTEX	<0.300	0.300	06/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	3880	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 3 (1-1.5') (H233216-10)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEX	<0.300	0.300	06/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50		
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9		
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND						

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 3 (2-2.5') (H233216-11)

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	06/23/2023	ND	2.22	111	2.00	2.00	
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 3 (3-3.5') (H233216-12)

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	06/23/2023	ND	2.22	111	2.00	2.00	
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Analytical Results For:

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

Received:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 3 (4-4.5') (H233216-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 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:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 4 (0-6") (H233216-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 4 (1-1.5') (H233216-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 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:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 4 (2-2.5') (H233216-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 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:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 4 (3-3.5') (H233216-17)

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	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 1 (1-1.5') (H233216-18)

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	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 2 (1-1.5') (H233216-19)

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	06/22/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/22/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/22/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/22/2023	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	06/22/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	11.2	10.0	06/22/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 3 (1-1.5') (H233216-20)

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	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	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	128	16.0	06/22/2023	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	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 4 (0-6") (H233216-21)

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	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	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	112	16.0	06/22/2023	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	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 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:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 5 (1-1.5') (H233216-22)

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	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/22/2023	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	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 6 (1-1.5') (H233216-23)

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	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/22/2023	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	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Page 1 of 3

Work Order No: H233214

Page 26 of 28

Project Manager: Becky Haskell
 Company Name: NTG Environmental
 Address: 701 Tradewinds Blvd.
 City, State ZIP: Midland TX, 79701
 Phone: 432-766-1918
 Email: [blank]

Bill to: (if different)
 Company Name: Chris Martin
 Address: Earthstone
 City, State ZIP: [blank]

Work Order Comments
 Program: UST/PS PR Brownie R S Super
 State of Project: [blank]
 Reporting Level: Level PST/UT TR L [blank]
 Deliverables: EDD ADAPT Other: [blank]

Project Name: Dark Canyon 15-22 State WCB 2H
 Project Number: 237454
 Project Location: Eddy Co, New Mexico
 Sampler's Name: Kenny Han
 PO #: [blank]

Turn Around: Routine Rush
 Due Date: [blank]
 TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: Yes No
 Thermometer ID: [blank]
 Wet Ice: Yes No
 Correction Factor: 1.3
 Cooler Custody Seals: Yes No
 Sample Custody Seals: Yes No
 Temperature Reading: 4.5°C
 Corrected Temperature: 3.9°C
 Total Containers: 23

Parameters
 BTEX 8021B
 TPH 8015M (GRO + DRO + MRO)
 Chloride 4500

Preservative Codes
 None: NO
 DI Water: H₂O
 Cool: Cool
 MeOH: Me
 HCL: HC
 HNO₃: HN
 H₂SO₄: H₂
 H₃PO₄: HP
 NaHSO₄: NABIS
 Na₂S₂O₅: NASO₅
 Zn Acetate+NaOH: Zn
 NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST	Sample Comments
V-1 (0-6")	6/19/2023	10:00	X		Grab/	1	X	
V-1 (1-1.5')	6/19/2023	10:05	X		Grab/	1	X	
V-1 (2-2.5')	6/19/2023	10:15	X		Grab/	1	X	
V-2 (0-6")	6/19/2023	10:20	X		Grab/	1	X	
V-2 (1-1.5')	6/19/2023	10:25	X		Grab/	1	X	
V-2 (2-2.5')	6/19/2023	10:30	X		Grab/	1	X	
V-2 (3-3.5')	6/19/2023	10:35	X		Grab/	1	X	
V-2 (4-4.5')	6/21/2023	10:00	X		Grab/	1	X	
V-3 (0-6")	6/19/2023	10:40	X		Grab/	1	X	
V-3 (1-1.5')	6/19/2023	10:45	X		Grab/	1	X	

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. Kenny Han	<i>[Signature]</i>	6-21-23 1450			
3					
5					



Chain of Custody

Work Order No: H233216

Page 2 of 3

Project Manager: Becky Haskell
 Company Name: NTG Environmental
 Address: 701 Tradewinds Blvd.
 City, State ZIP: Midland TX, 79701
 Phone: 432-766-1918

Bill to: (if different)
 Company Name:
 Address:
 City, State ZIP:

Turn Around
 Routine Rush

Due Date:
 TAT starts the day received by the lab, if received by 4:30pm

Email:

Work Order Comments
 Program: UST/PS PR Brownie R Supel
 State of Project:
 Reporting Level: Level PST/U TR P L b
 Deliverables: EDD ADAPT Other:

Project Name:	Dark Canyon 15-22 State WCB 2H	Pres. Code	
Project Number:	237454	ANALYSIS REQUEST	
Project Location:	Eddy Co, New Mexico	Parameters	
Sampler's Name:	Kenny Han	BTEX 8021B	
PO #:		TPH 8015M (GRO + DRO + MRO)	
SAMPLE RECEIPT	Temp Blank: <input checked="" type="radio"/> Yes <input type="radio"/> No	Chloride 4500	
Received Intact:	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Cooler Custody Seals:	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Sample Custody Seals:	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Total Containers:	23		

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Sample Comments
V-3 (2-2.5')	6/19/2023	10:50	X	Grab/	1	X	
V-3 (3-3.5')	6/19/2023	10:55	X	Grab/	1	X	
V-3 (4-4.5')	6/19/2023	11:00	X	Grab/	1	X	
V-4 (0-6")	6/21/2023	10:30	X	Grab/	1	X	
V-4 (1-1.5')	6/21/2023	10:35	X	Grab/	1	X	
V-4 (2-2.5')	6/21/2023	10:40	X	Grab/	1	X	
V-4 (3-3.5')	6/21/2023	10:45	X	Grab/	1	X	
H-1 (1-1.5')	6/19/2023	11:05	X	Grab/	1	X	
H-2 (1-1.5')	6/19/2023	11:10	X	Grab/	1	X	
H-3 (1-1.5')	6/19/2023	11:15	X	Grab/	1	X	

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	<i>[Signature]</i>	6-21-23 1450			



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

July 03, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: DARK CANYON 15-22 STATE WCB 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/28/23 14:15.

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".

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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 5 (1-1.5') (H233343-01)

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	06/29/2023	ND	1.91	95.3	2.00	6.33	
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36	
Total BTEX	<0.300	0.300	06/29/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/29/2023	ND	352	88.0	400	12.8	

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	06/28/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/28/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/28/2023	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 5 (2-2.5') (H233343-02)

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	06/29/2023	ND	1.91	95.3	2.00	6.33	
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36	
Total BTEX	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	06/29/2023	ND	352	88.0	400	12.8	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/28/2023	ND	200	99.9	200	0.670		
DRO >C10-C28*	<10.0	10.0	06/28/2023	ND	197	98.5	200	7.16		
EXT DRO >C28-C36	<10.0	10.0	06/28/2023	ND						

Surrogate: 1-Chlorooctane 147 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 5 (3-3.5') (H233343-03)

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	06/29/2023	ND	1.91	95.3	2.00	6.33	
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36	
Total BTEX	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	06/29/2023	ND	352	88.0	400	12.8	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/28/2023	ND	200	99.9	200	0.670		
DRO >C10-C28*	<10.0	10.0	06/28/2023	ND	197	98.5	200	7.16		
EXT DRO >C28-C36	<10.0	10.0	06/28/2023	ND						

Surrogate: 1-Chlorooctane 137 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 5 (4-4.5') (H233343-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/29/2023	ND	1.91	95.3	2.00	6.33		
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35		
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94		
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36		
Total BTEX	<0.300	0.300	06/29/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/29/2023	ND	352	88.0	400	12.8		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	06/28/2023	ND	200	99.9	200	0.670			
DRO >C10-C28*	<10.0	10.0	06/28/2023	ND	197	98.5	200	7.16			
EXT DRO >C28-C36	<10.0	10.0	06/28/2023	ND							

Surrogate: 1-Chlorooctane 147 % 48.2-134

Surrogate: 1-Chlorooctadecane 153 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 6 (1-1.5') (H233343-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/29/2023	ND	352	88.0	400	12.8	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/28/2023	ND	200	99.9	200	0.670		
DRO >C10-C28*	<10.0	10.0	06/28/2023	ND	197	98.5	200	7.16		
EXT DRO >C28-C36	<10.0	10.0	06/28/2023	ND						

Surrogate: 1-Chlorooctane 135 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 6 (2-2.5') (H233343-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	06/29/2023	ND	352	88.0	400	12.8	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	200	99.9	200	0.670		
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	197	98.5	200	7.16		
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND						

Surrogate: 1-Chlorooctane 139 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 6 (3-3.5') (H233343-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/29/2023	ND	352	88.0	400	12.8	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	200	99.9	200	0.670		
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	197	98.5	200	7.16		
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND						

Surrogate: 1-Chlorooctane 136 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 7 (0-0.5') (H233343-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	06/29/2023	ND	352	88.0	400	12.8	

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	06/29/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 7 (1-1.5') (H233343-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/29/2023	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	06/29/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 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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Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 10333343

Page 1 of 1

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

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

Project Name:	Dark Canyon 15-22 State WCB 2H	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST	Preservative Codes
Project Number:	237454	Due Date:					None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NaSO ₅ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Project Location:	Eddy Co, New Mexico	TAT starts the day received by the Sampler's Name: Kenny Han					
Sampler's Name:	Kenny Han						
PO #:		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113		
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.6°C		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	3.8°C		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Total Containers:	9	Corrected Temperature:	3.2°C		

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Sample Comments
V-5 (1-1.5')	6/28/2023	10:00	X		Grab/	1	BTEX 8021B	
V-5 (2-2.5')	6/28/2023	10:05	X		Grab/	1	TPH 8015M (GRO + DRO + MRO)	
V-5 (3-3.5')	6/28/2023	10:15	X		Grab/	1	Chloride 4500	
V-5 (4-4.5')	6/28/2023	10:20	X		Grab/	1		
V-6 (1-1.5')	6/28/2023	10:40	X		Grab/	1		
V-6 (2-2.5')	6/28/2023	10:45	X		Grab/	1		
V-6 (3-3.5')	6/28/2023	10:50	X		Grab/	1		
V-7 (0-0.5')	6/28/2023	11:40	X		Grab/	1		
V-7 (1-1.5')	6/28/2023	11:50	X		Grab/	1		

Additional Comments: 6/29/23

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
1. Kenny Han	<i>[Signature]</i>	6-28-23 1415			
3					
5					

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 255618

CONDITIONS

Operator: Earthstone Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 331165
	Action Number: 255618
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Due to the lack of groundwater data within ½ mile of the release location, the site will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation standards set forth in the OCD Spill Rule.	1/22/2024
rhamlet	If a deferral is requested, an updated remediation plan will need to be submitted. The release area must be fully delineated before a deferral can be granted. Quick point: deferral and closure are two completely different things. A deferral requires the contamination to be cleaned up once the site is reconstructed, and/or the well pad is abandoned. A closure is just that, all contaminants have been cleaned up and the incident is approved/closed. Never send in a closure report asking for a deferral.	1/22/2024