<u>District I</u> 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 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**

			Res	ponsit	ole Party	y		
Responsible	Party Earth	stone Operatin	g, LLC		OGRID 33	31165		
Contact Nam	ne Chris M	artin			Contact Telephone 432-253-9998 Ext. 2653			
Contact ema	il cmartin@	@earthstoneene	rgy.com		Incident #	(assigned by OCD)	nAPP2315638319	
Contact mai	ling address	600 N. Marien	feld, Suite 100	00, Mid	lland, TX	79701		
			Location	of R	elease So	ource		
Latitude 32.3	311351			,	Longitude <u>-</u>	104.286988		
			(NAD 83 in de	ecimal deg	rees to 5 decim	nal places)		
Site Name D	ark Canyo	n 15-22 State V	VCB 2H		Site Type S	Separator		
Date Release	Discovered	5/24/23			API# (if app	licable) 30-015-	-44538	
Unit Letter	Section	Township	Range		Coun	tv	 ]	
D	15	23S	26E	Eddy		ity		
Surface Owne		Federal Tr	Nature and	d Vol			volumes provided below)	
Crude Oil		Volume Release				Volume Reco		
Produced	Water	Volume Release				Volume Reco	vered (bbls) 15	
		Is the concentrate produced water	tion of dissolved o >10,000 mg/l?	chloride	in the	Yes N	0	
Condensa	nte	Volume Release	d (bbls)			Volume Reco	vered (bbls)	
Natural G	las	Volume Release	d (Mcf)			Volume Reco	,	
Other (de	scribe)	Volume/Weight	Released (provid	de units)		Volume/Weig	ght Recovered (provide units)	
		e under separate lace nipple.	or blew a pin s	size hol	e causing	a mess. Shut	well in, drain separator, blow	

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e of New Mexico

Incident ID nAPP2315638319

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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	nsible party consider this a major release?
Yes No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible p	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release noti ment. The acceptance of a C-141 report by the C ate and remediate contamination that pose a three	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: _Rebecca	a Haskell	Title: Senior Project Manager
Signature: Reber	un Haskell	Date: <u>6/5/23</u>
email: <u>bhaskell@ntg</u> l	lobal.com	Telephone: 432-766-1918
OCD Only		
Received by:Jocel	yn Harimon	Date:06/07/2023

	Page 3 of	<b>67</b>
Incident ID	nAPP2315638319	
District RP		
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Application ID		

#### **Site Assessment/Characterization**

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>Unknown</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ 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)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ 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?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well Field data  Data table of soil contaminant concentration data Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information  Topographic/Aerial maps Laboratory data including chain of custody	ls.

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.

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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	be included in the plan.
<ul> <li>☑ Detailed description of proposed remediation technique</li> <li>☑ Scaled sitemap with GPS coordinates showing delineation poir</li> <li>☑ Estimated volume of material to be remediated</li> <li>☑ Closure criteria is to Table 1 specifications subject to 19.15.29</li> <li>☑ Proposed schedule for remediation (note if remediation plan tire</li> </ul>	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be co	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
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	
OCD Only	
Received by: Shelly Wells	Date: <u>8/23/2023</u>
☐ 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

NTGE Project No.: 237454



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 assessment sample locations. The Release Notification. 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

Rebecca Haskell

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

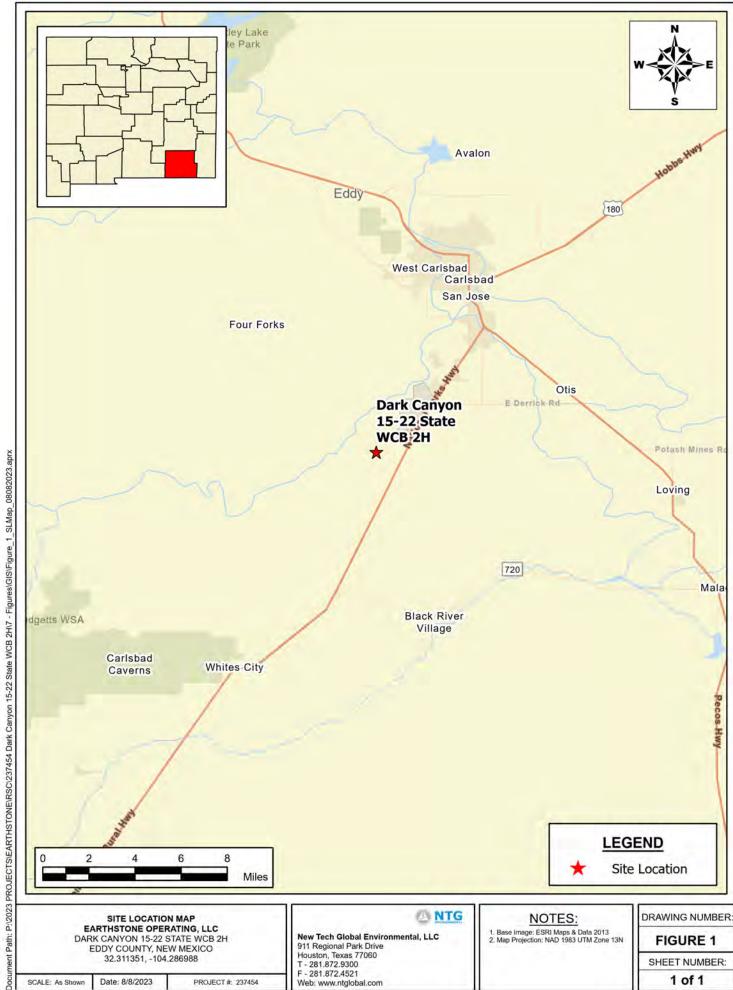
Attachment C: Laboratory Analytical Reports and Chain -of-Custody

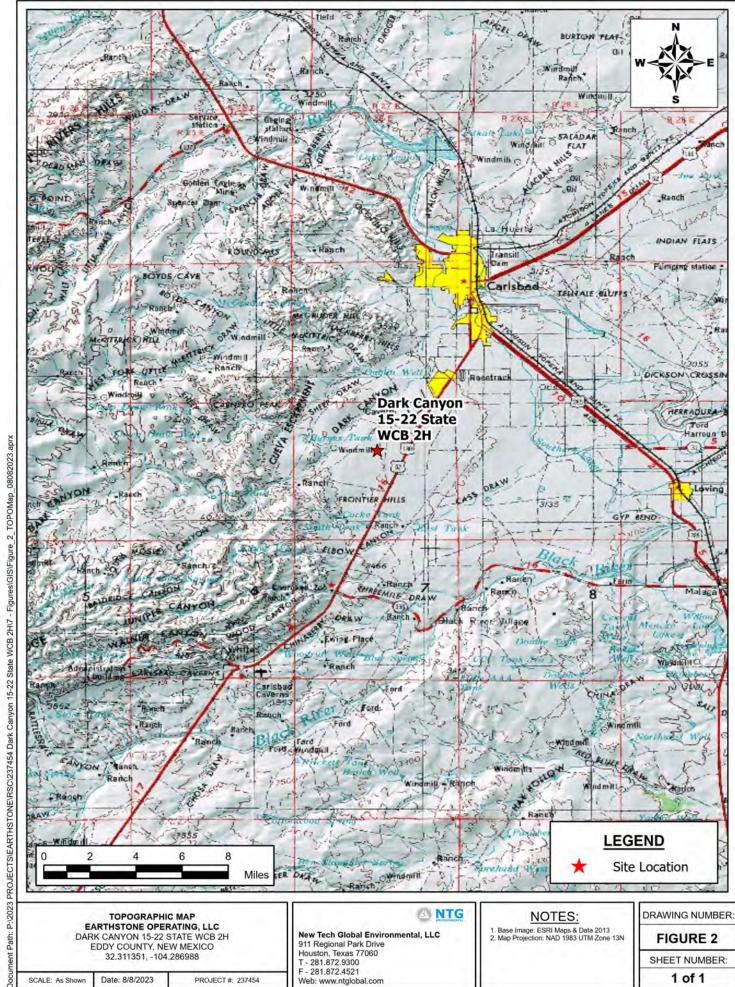
Documentation

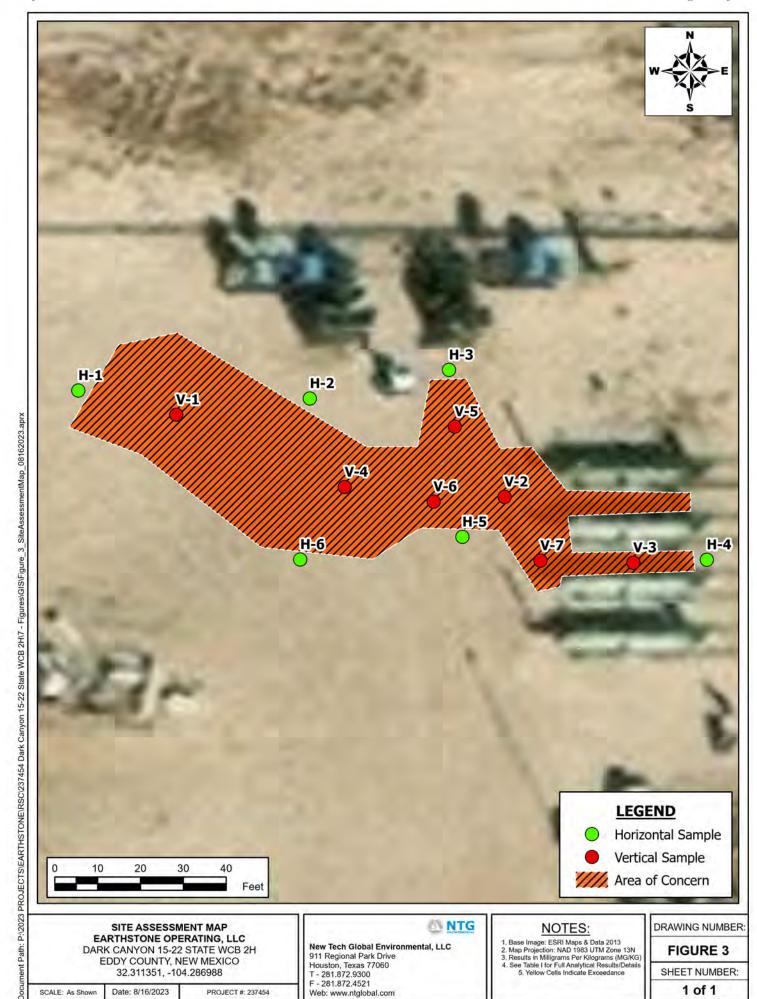
A NTG

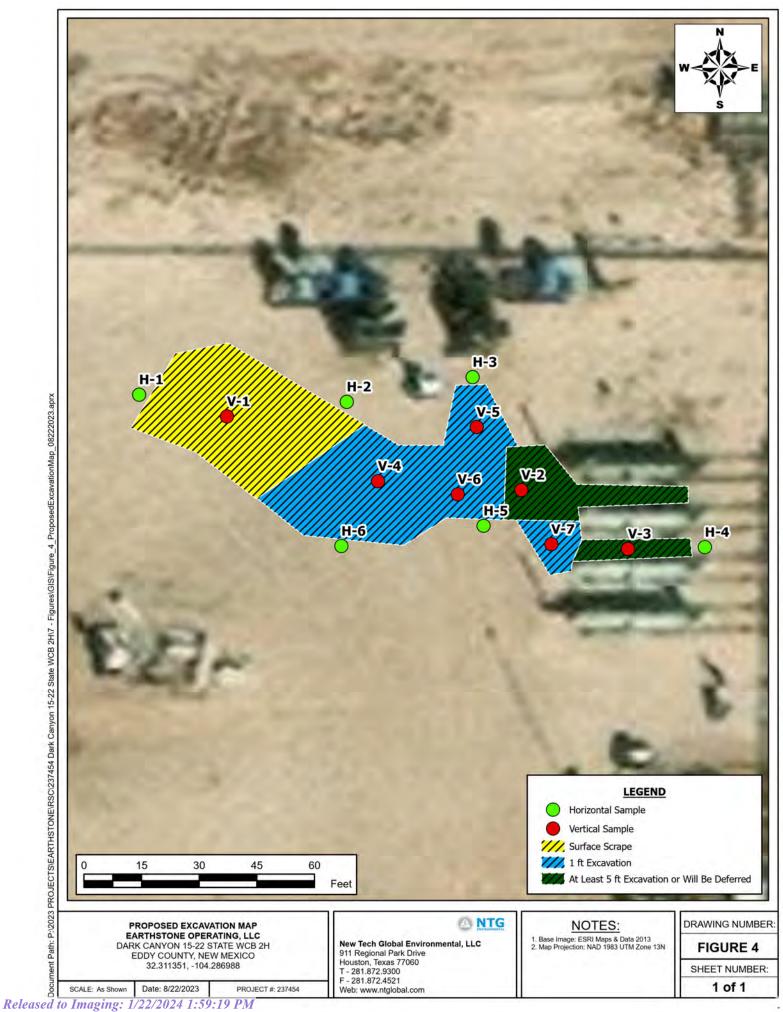
# **FIGURES**











# **TABLES**



# Table 1 Summary of Soil Analytical Data - Initial Assesment Samples Dark Canyon 15-22 State WCB 2H Earthstone Operating, LLC Eddy, County, New Mexico

								TPH					
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO	DRO	GRO + DRO	MRO	Total	Chloride
Sample ID	Sample Date	Depth	( ()	( (1 )	4 41 3	, ,,	, ,,	(C6-C10)	(C10-C28)	( ()	(C28-C35)	GRO/DRO/MRO	, ,,
	·	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			40 //			Table I Closure		≤ 50 feet D	epth to Groun	dwater 19.15.29	NMAC	400 //	500 //
			10 mg/kg			Delineation	50 mg/kg					100 mg/kg	600 mg/kg
	6/19/2023	(0-6")	<0.050	40.0F0	<0.050		•	-100	110.0	10.0	110.0	-10.0	320
V-1	6/19/2023	(1-1.5')	<0.050	<0.050 <0.050	<0.050	<0.150 <0.150	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	80.0
V-1	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	160
	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	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	384
V-2	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	672
V-Z	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	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	5,440
	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	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	5,200
V-3	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	2,400
V S	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	2,320
	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	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	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	144
V-4	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	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	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	48.0
	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	32.0
V-5	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	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	64.0
	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	144
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	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	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	704
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	336
H-1	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	240
H-2	6/19/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.2	<10.0	<10.0	11.2	112
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	128
H-4	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	112
H-5	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	64.0
H-6	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	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

SP-1 Sample Point Excavated

- 5. TPH analyses by EPA Method SW 8015 Mod.
- 6. GRO/DRO/MRO Gasoline/Diesel/Motor Oil
- $\textbf{7. Yellow shaded cells indicate analytical samples that exceed the NMAC\,19.15.29.12\,Table\,I\,Closure\,Criteria\,for\,the\,site.}\\$
- 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



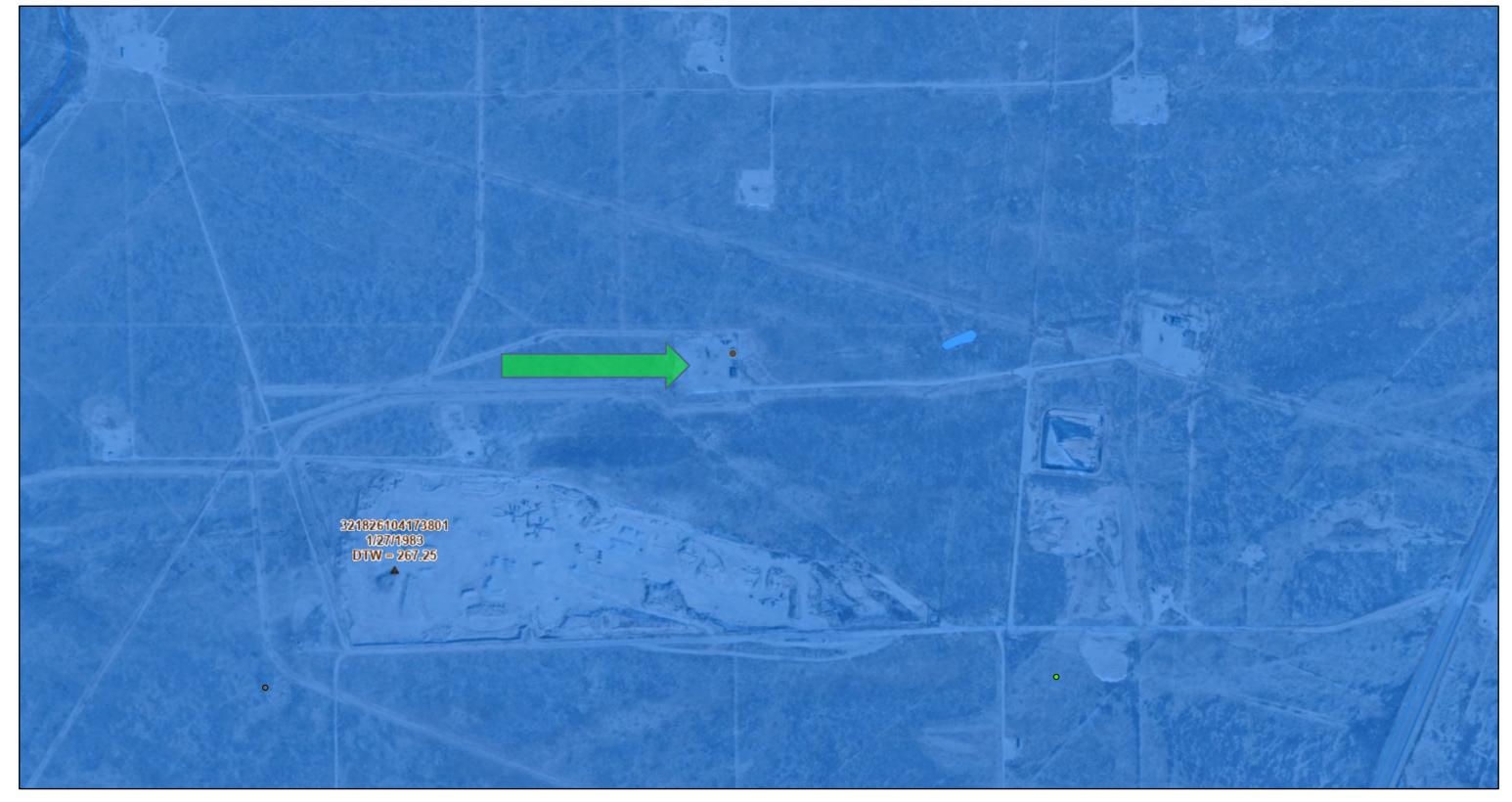
NTGE Project No. 237454

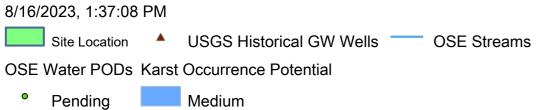
# ATTACHMENT A: SITE CHARACTERIZATION DOCUMENTATION



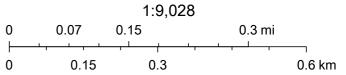
Received by OCD: 8/23/2023 12:00:21 AM

# Site Characterization Map





Unknown OSW Water Bodys

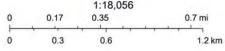


BLM, OCD, New Mexico Tech, USGS, OCD, Esri, HERE, Garmin, iPC, Maxar, NM OSE

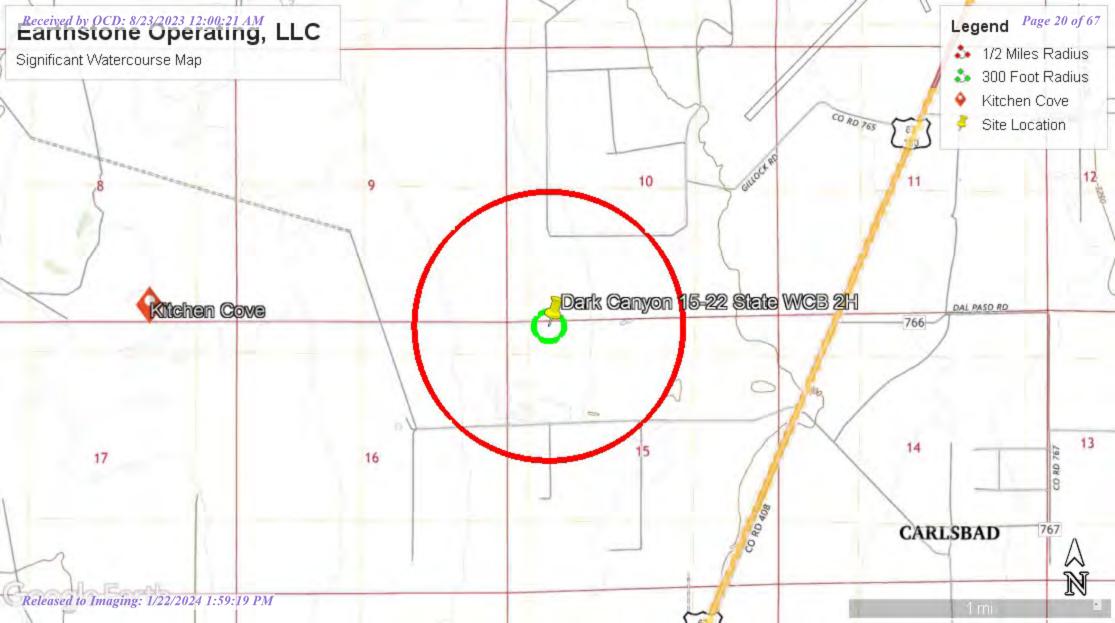
## OSE POD Locations Map







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



Received by OCD: 8/23/2023 12:00:21 AM

#### U.S. Fish and Wildlife Service

# **National Wetlands Inventory**

## Earthstone - Dark Canyon



August 8, 2023

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

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.

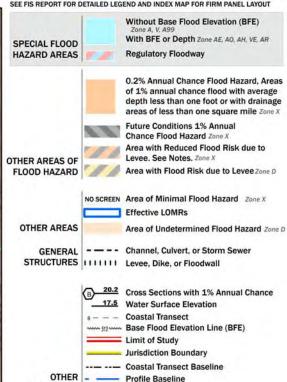
## National Flood Hazard Layer FIRMette





#### Legend

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



#### No Digital Data Available

MAP PANELS

**FEATURES** 

Unmapped

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

Hydrographic Feature **Digital Data Available** 

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-OFCUSTODY DOCUMENATION





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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



#### 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

Analyzed By: JH/

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B

DIEX 8021B	ilig	ky	Allalyze	u by: Jn/					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### 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 Sample Received By: Tamara Oldaker Project Number: 237454

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B	mg,	'kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### 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

Applyzod By: 1H /

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Keene



#### 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)

STEX 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	% 71.5-13	4						
Chloride, SM4500Cl-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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.2	% 49.1-14	8						

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Celey D. Keene



#### 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

Analyzed By: JH/

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B

	9,	9	7	7: 5::.,					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/22/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

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

Received: 06/21/2023 Sampl

Reported: 06/26/2023 Sampling Ty

Project Name: DARK CANYON 15-22 STATE WCB 2H
Project Number: 237454

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

Sampling Date: 06/19/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

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

BTEX 8021B

DILX GOZID	11197	ng .	Alldiyzo	a by. 5117					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

Analyzed By: JH/

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### 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

Applyzod By: 1H /

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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	Analyze	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### 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

Analyzed By: JH/

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B

	9,	9	7	7: 5::.,					
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	% 71.5-13	4						
Chloride, SM4500Cl-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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene



#### 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		Analyze	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	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	Analyze	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.5	% 49.1-14	8						

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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

Analyzed By: JH/

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B

	9/	9	7111411720	,					
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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.9	% 49.1-14	8						

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### Analytical Results For:

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

Sampling Date:

06/19/2023

Reported:

Received:

BTEX 8021B

06/21/2023 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)

DILX GOZID	ıııg,	ng .	Allulyzo	a by. 5117					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

Analyzed By: JH/

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Celey D. Keine



06/19/2023

Tamara Oldaker

### Analytical Results For:

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

Received: 06/21/2023 Sampling Date:

Reported: 06/26/2023 Sampling Type: Soil Project Name: DARK CANYON 15-22 STATE WCB 2H Sampling Condition: Cool & Intact

Project Number: Sample Received By: 237454

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 9	% 71.5-13	4						
Chloride, SM4500CI-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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

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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

Analyzed By: MS

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B

DILX GOZID	11197	ng .	Alldiyac	a by. 1-15					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

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### Analytical Results For:

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

Applyzod By: MC

06/21/2023 06/26/2023

Reported: 06/26/2023
Project Name: DARK CANYON 15-22 STATE WCB 2H

Project Number: 237454

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

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

Received:

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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Sample Received By:

06/21/2023

Tamara Oldaker

### Analytical Results For:

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

Tux

06/21/2023 Sampling Date:

Applyzod By: MC

Reported: 06/26/2023 Sampling Type: Soil
Project Name: DARK CANYON 15-22 STATE WCB 2H Sampling Condition: Cool & Intact

Project Number: 237454

Received:

RTFY 8021R

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.2	% 49.1-14	8						

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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

Applyzod By: MC

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg,	/ <b>kg</b>	Anaiyze	ea 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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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

Analyzed By: MS

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B

DILX GOZID	ilig/	, kg	Andryzo	u by. 1-15					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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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

Analyzed By: MS

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B

	9/	9	7111411720						
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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

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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

Applyzod By: MC

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

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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

Analyzed By: MS

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B

	9,	9	7	7: : : :					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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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

06/26/2023

DARK CANYON 15-22 STATE WCB 2H

Project Number: 237454

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO Sampling Date: 06/19/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

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

Reported:

Project Name:

BTEX 8021B	mg	/kg	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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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

Applyzod By: MC

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.2	% 49.1-14	8						

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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: Sample Received By: 237454 Tamara Oldaker

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B	mg/	'kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

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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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Project   Proj	Billion (Edifferent)   Chris Martin   Chris Mart	Molecular   March
Company Name	Company Name	Backy Haskell   Company Name:   Earthstone   Carby State ZP:   C
Project Name	Control   Author   Control   Contr	MITG Environmentals
Company Name	Belly Reside	Backly Haskell   Ball to, (f different)   Chris Martin   Program: USTPS   PR   Brit Nort Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit Nort Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Reporting Level   Program: USTPS   PR   Brit North Order to State of Project:   Program: USTPS   PR   Brit North Order to State of Project:   Program: USTPS   PR   Brit North Order to State of Project:   Program: USTPS   PR   Brit North Order to State of Project:   Program: USTPS   PR   Brit North Order to State of Project:   Program: USTPS   PR   Brit North Order to State of Project:   Program: USTPS   PR   Brit North Order to State of Project:   Program: USTPS   Project:   Proj
Chris Martin   Chri	Bell to (if different)	Belt
Bulty Handler:   Bulty Haskel!   Company Name:   Chris Martin	Bell to (if different)	Backy Haskell
Color Manager:   Borby Haskell   Bull to (if different)   Chris Martin   Program: UST IPS   PR   Brown Corder Company Name   VITG Environmentals   Program: UST IPS   PR   Brown Corder Company Name   VITG Environmentals   Program: UST IPS   PR   Brown Corder Company Name   VITG Environmentals   Program: UST IPS   PR   Brown Corder Company Name   Program: UST IPS   PR   Brown Corder C	Bill to, (if different)	Beldy Haskell   Bill to (if different)   Chris Martin   Work Order Company Name   Earthstone   Earthstone   Earthstone   Company Name   Earthstone   Chris Martin   Company Name   Earthstone   City State CIP   Company Name   Company Name   City State CIP   Company Name   C
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Chris Martin  Earthstone  Earthstone  X X X BTEX 8021B  X X X X TPH 8015M (GRO + DRO + MRO)  X X X X Chloride 4500  Chloride 4500  Date/Time  Relinqui  Relinqui	Chris Martin  Earthstone  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  Chloride 4500  Chloride 4500  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  Resincured by the client if such losses are due to cit ob, but not analyzed. These terms will be enforced unit of the control of t	Chris Martin  Earthstone  ANALYSIS REQUES  Pro Sta Re;  Pro Sta Re;  Pro Sta Re;  Del  Del  Date/Time  Chris Martin  ANALYSIS REQUES  Rei Re;  Pro Sta Re;  Rei Rei Rei Rei Rei Rei Rei Rei Rei Re	Earthstone    Chris Martin   Frogram: US   State of Proj.			Work Order Co	Page 3  Work Order Comments  S□ PR□ Brownfie s R  □ Level □ PST/U □ TR  ADaP1□ Other:  Preservati  None: NO  Cool: Cool  H2;S04; H2  H3;P04; HP  NaHS04; NABIS  Na,S203; NaS03 Zn Acetate+NaO  NaOH+Ascorbic  Sample C			Ultrad to Valle	nitted to Xeno	ses or expens	of company to		+	1	1	1	+				1-5	-	1	-	Para	imete	ers	Э		Code	Drok		Ġ		ne:	rent)	enat)	
TPH 8015M (GRO + DRO + MRO)  X X X Chloride 4500  A Hilliates and subcontractor by the client if such losses terms will be Relinqui	ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  ANALYSIS  Relinquished by:  Relinquished by:	ANALYSIS REQUES  ANALYSIS REQUES  Rej  Pro  Sta  Rej  Alliances and subconfractors. It assigns standard tem by the client if such losses are due to circumstances to the enforced unless previous  Rejinquished by: (Signature	ANALYSIS REQUEST  ANALYSIS REQUEST  ANALYSIS REQUEST  ANALYSIS REQUEST  X X X X X X X X X X X X X X X X X X X			Work Order Co	Page 3  Work Order Comments  S□ PR□ Brownfie s R  □ Level □ PST/U □ TR  ADaP1□ Other:  Preservati  None: NO  Cool: Cool  H2;S04; H2  H3;P04; HP  NaHS04; NABIS  Na,S203; NaS03 Zn Acetate+NaO  NaOH+Ascorbic  Sample C	Date/Tir		o, put not a	o, but not ar	ses incurred	Yenco its			1	1	1	İ	-	-					_	_			MDC							Earthsto	CHISIN	Chris M	
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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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



06/28/2023

### Analytical Results For:

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

Received: 06/28/2023 Sampling Date:

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

Analyzed By: MS

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

mg/kg

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

BTEX 8021B

DILX 6021D	ilig	r kg	Allalyze	a by. 143					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### 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 Sample Received By: Project Number: 237454 Tamara Oldaker

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	154 %	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celecy D. Keene



### 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

Analyzed By: MS

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B

				<u> </u>					
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	Analyze	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	145	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Sampling Date:

06/28/2023

Reported:

Received:

BTEX 8021B

06/28/2023 07/03/2023

Sampling Type:

Soil

Project Name:

DARK CANYON 15-22 STATE WCB 2H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

237454

EARTHSTONE - EDDY CO, NEW MEXICO

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

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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	153 9	% 49.1-14	8						

Analyzed By: MS

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Celey D. Keine



### 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 Sample Received By: Project Number: 237454 Tamara Oldaker

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	141 %	% 49.1-14	8						

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Celecy D. Keene



### Analytical Results For:

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

Гах

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

Analyzed By: MS

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B

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 9	6 71.5-13-	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	6 48.2-13-	4						
Surrogate: 1-Chlorooctadecane	146 %	6 49.1-14	8						

# Cardinal Laboratories \*=Accredited Analyte

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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

Analyzed By: MS

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B

	<u> </u>			• •					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142	% 49.1-14	8						

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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

Applyzod By: MC

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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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: Sample Received By: 237454 Tamara Oldaker

Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

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

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	141	% 49.1-14	8						

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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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Pag  Work Order Comme  PR□ Brownfie  PR□ Brownfie  Ccol: G HCL: H-J-SO4; H-J-SO4; NaHSO Na-S-SO Zn Aco NaOH						4				1	The state of the s	augue	A COLUMN		1. Ixellily Light
Pag Work Order Comme    PR   Brownfie   PR   Brownfie   ADaP1□   None:     Caol: G HCL: H H 2S04:   H 3P04 NaHS0 NaOH   NaOH   NaOH   NaOH						1/5 2	25 1	6-38-	1	The state of the s	11/1	11111			1 Kenny Han
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Becky Haskell   Bellito: (If different)   Chris Martin   Page   Program: USTIPS   PR   Brownfile   Post   Program: USTIPS   PR   Brownfile   Program: USTIPS   PR						×	+	+	Grab/		×	10:40	6/28/2023	-1.5')	V-6 (1
Backy Haskell   Bill to: (If different)   Chris Martin   Page						× ×	+	+	Grab/		×	10:20	6/28/2023	1-4.5')	V-5 (4
Becky Haskell						< ×	+	+	Grab/		×	10:15	6/28/2023	-3.5')	V-5 (3
WIRONMENTAL   Page   Work Order No.   Page   Program: USTIPS   PR   Program: USTIPS   PR   PR   PR   PR   PR   PR   PR				+		× ×	+	-	Grab/		×	10:05	6/28/2023	-2.5')	V-5 (2
Becky Haskell   Bill to: (if different)   Chris Martin   Program: USTIPS   PR   Brownfile   Part   Program: USTIPS   PR   Brownfile   Program: USTIPS   PR						< ×	+	+	Grab/		×	10:00	6/28/2023	-1.5')	V-5 (1
Work Order No:		Called					+				Soil	Time	Date	ntification	Sample Ide
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Work Order No:   Fag.	bic Acid: SAPC	NaOH+Ascon					3015	_	000	פעי	re reading.	Temperatu		Yes	ample Custody Sea
Page	AOH: Zn	Zn Acetate+N				Chlo	М (		1	N.e	Factor.	Correction	NA A	Yes	ooler Custody Sea
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## Work Order No:	ative Codes	Preserv		DECHEST							Email:			432-766-1918	none:
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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

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:	OGRID:
Earthstone Operating, LLC	331165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	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