

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	nAPP2324355629
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) nAPP2324355629
Contact mailing address 600 N. Marienfeld, Suite 1000, Midland, TX 79701	

Location of Release Source

Latitude 32.428549 Longitude -103.453621
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Grama Ridge East 34 State Com 3BS #005H	Site Type Well Pad
Date Release Discovered 8/28/23	API# (if applicable) 30-025-45625

Unit Letter	Section	Township	Range	County
O	34	21S	34E	Lea

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 13	Volume Recovered (bbls) 3
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls) 2
	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 Blockage in back pressure valve resulted in fluid to be released from stuffing box. Spill was at wellhead with overspray. Release was contained to well pad. Repairs to BPV and stuffing box were made and a vac truck was dispatched to recover all free standing fluid.

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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>9/8/2023</u>
email: <u>bhaskell@ntglobal.com</u>	Telephone: <u>432-766-1918</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	nAPP2324355629
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: MONTGOMERY FLOYD Title: ENV
Signature: [Signature] Date: 2-26-24
email: montgomery.floyd@permianres.com Telephone: 432 425 8321

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	nAPP2324355629
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: MONTGOMERY FLOYD Title: ENV

Signature:  Date: 2-26-24

email: montgomery.floyd@permianres.com Telephone: 432 425 8321

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



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

February 23, 2024

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

**Re: Site Characterization and Deferral Request Report
Grama Ridge East 34 State Com 3BS #05H
Earthstone Energy Operating, LLC (currently Permian Resources Operating, LLC
Incident ID: nAPP2324355629
Letter O, Sec. 34, T21S, R34E
Lea County, New Mexico**

1. Introduction

New Tech Global Environmental, LLC (NTGE), on behalf of Earthstone Energy (currently Permian Resources Operating, LLC (Permian), submits this Site Characterization and Deferral Request Report to the NMOCD District 1 Office in Hobbs, New Mexico. This report provides documentation of initial soil delineation, sampling, analysis, and remediation activities conducted to date in the affected areas at the former Earthstone Grama Ridge East 34 State Com 3BS #005H Release Site (Site). The Site is located in Unit Letter O, Section 34 of Township 21 South and Range 34 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.428549° N Latitude and 103.453621° W Longitude. Figures 1 and 2 depict the Site location. The initial delineation sample points are depicted on Figure 3.

2. Background

A C-141, Release Notification, for this release was submitted to the NMOCD on September 8, 2023. The C-141 stated that blockage in a back pressure valve resulted in fluid being released from the stuffing box. Approximately thirteen (13) barrels (bbls) of crude along with eight (8) bbls of produced water were released with three (3) bbls of crude and two (2) bbls of produced water recovered for a net loss of ten (10) bbls crude and six (6) bbls produced water. Upon discovery, the well was shut-in and a vacuum truck was utilized to recover fluids. The Release Notification portion of the C-141 for incident number nAPP2324355629 is attached to the front of this report.

Mr. Mike Bratcher
February 23, 2024
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3. Groundwater and Site Characterization

The Site is located in an area of low karst potential. Based on a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, no groundwater wells exist within a ½-mile radius of the site. 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.

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).

General Site Characterization and Groundwater: Table 3.1

Site Characterization	Average Groundwater Depth (ft)
Low Karst	Unknown

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

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+DRO)	Total BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

4. Soil Delineation Assessment Summary and Analysis

On September 13, 2023, NTGE conducted initial assessment activities to determine the extent of impacts at the Grama Ridge 34 State 3BS #005H (Site). A total of five (5) vertical sample points (V-1 through V-5) were installed, with samples collected at intervals ranging from zero (0) to five and a half (5.5) ft below ground surface (bgs). Additionally, four (4) horizontal sample points (H-1 through H-4) were installed around the suspected impacted area. Soil samples were collected with a geotechnical hand auger. The samples were submitted to Eurofins Laboratory (Eurofins) of Midland, Texas for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by EPA Method 8015M, and chloride by EPA Method 300.0 CL. Analysis indicated that concentrations of either TPH and/or chloride exceeded NMOCD Table I Closure Criteria for samples V-1, V-2, V-4, V-5, H-1, and H-4 from surface to a maximum depth of five and a half (5.5) ft bgs in V-5. Soil sample V-5 was the only point that was not delineated in regard to the Table I Closure Criteria. Figure 3, Site Delineation Soil Sample Map, depicts the outline of the suspected release area and delineation sample locations. Analytical results are provided in Table 1, Summary of Soil Analytical Data – Delineation Soil Samples. Laboratory analytical reports and Chain-of-Custody

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Documentation are provided in Attachment D. Photographic Logs are provided in Attachment B.

5. Remedial Action Activities, Confirmation Sampling, Deferral Samples and Extension Request

Based on the initial assessment results, Lobo Services (Lobo) of Odessa, Texas mobilized to the site and proceeded with the remedial actions to include the excavation and disposal of impacted soils above the regulatory limits. All five point composite confirmation samples were collected based on one (1) composite sample per 200 square feet (ft²) of surface area for both bottom and sidewalls and submitted to Cardinal Labs of Hobbs, New Mexico for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015M, and chlorides by EPA Method SM4500Cl-B.

Upon the completion of the initial excavation activities, NTGE was on-site November 16, 2023, to collect seventeen (17) confirmation samples (CS-4, CS-5, CS-7, CS-15, CS-23, CS-26, CS-32 through CS-40, CS-43 and CS-44) ranging from depths of three (3) ft bgs to seven (7) ft bgs which were submitted to Cardinal Labs for analysis. Analytical results indicated that none of the confirmation samples collected exhibited concentrations above the Table I Closure Criteria.

On November 29, 2023, after further excavation by Lobo, NTGE conducted a confirmation sampling event, whereby thirty-one (31) confirmation samples (CS-1 through CS-3, CS-6, CS-8 through CS-14, CS-16 through CS-22, CS-24, CS-25, CS-27 through CS-31, CS-41, CS-42, CS-45 through CS-48) and twenty-seven (27) sidewall samples (SW-1 through SW-27) were collected, ranging from surface to seven (7) ft bgs. The samples were submitted to Cardinal Labs for analysis. Analytical results indicated that twenty-one (21) of the samples (CS-1, CS-8, CS-9, CS-13, CS-14, CS-17, CS-21, CS-22, CS-30, CS-45, SW-3, SW-5, SW-6, SW-7, SW-10 through SW-12, SW-14, SW-19, SW-21, and SW-27) exhibited TPH and/or chloride concentrations above the Table I Closure Criteria.

On December 15, 2023, after further excavation by Lobo, NTGE conducted a confirmation sampling event, whereby fourteen (14) confirmation samples (CS-1A, CS-8A, CS-9A, CS-13A, CS-14A, CS-17A, CS-21A, CS-22A, CS-30A, CS-45A, CS-49, CS-50, CS-52 and CS-53) and seventeen (17) sidewall samples (SW-10A through SW-12A, SW-14A, SW-19A, SW-20A, SW-24A, SW-28 through SW-33 and SW-35 through SW-38) were collected and submitted to Cardinal Labs for analysis. Analytical results indicated that two (2) of the samples (CS-52 and SW-28) exhibited chloride concentrations above the Table I Closure Criteria. In addition, one sample (CS-53) exhibited TPH concentrations above the Table I Closure Criteria.

On December 29, 2023, after further excavation by Lobo, NTGE conducted a confirmation sampling event, whereby two (2) confirmation samples (CS-52A and CS-53A) and fourteen (14) sidewall samples (SW-3A, SW-5A, SW-6A, SW-34, SW-39 through SW-48) were collected and submitted to Cardinal Labs for analysis. Analytical results indicated that twelve (12) samples (CS-53A, SW-5A, SW-34, SW-39 through SW-41, SW-43 through

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SW-46 and SW-48) exhibited concentrations of TPH and/or chlorides above the Table I Closure Criteria.

On January 5, 2024, based on the proximity of onsite equipment and analytical results of SW-6A, SW-7, SW-21, SW-27, and SW-28, NTGE arrived onsite to collect six (6) deferral samples (DH-1 through DH-3 and DV-1 through DV-3) at depths ranging from 6 inches (in) to 9 ft bgs around the pumpjack located to the northwest of the excavation and two pumpjacks located on the south end of the excavation. The samples were submitted to Cardinal Labs for analysis. Analytical results indicated that soil sample DV-2 exhibited TPH concentrations above the Table I Closure Criteria.

On January 9, 2024, after further excavation by Lobo, NTGE conducted a confirmation sampling event, whereby two (2) confirmation samples (CS-59 and CS-60), three (3) sidewall samples (SW-40A, SW-41A and SW-49) and one (1) deferral sample (DV-2) were collected and submitted to Cardinal Labs for analysis. Analytical results indicated that all samples exhibited concentrations below the Table I Closure Criteria.

On January 11, 2024, after further excavation by Lobo, NTGE conducted a confirmation sampling event, whereby seven (7) confirmation samples (CS-53B, CS-54, CS-55 through CS-58, and CS-61) and seven (7) sidewall samples (SW-5B, SW-34A, SW-43A through SW-46A and SW-48A) were collected and submitted to Cardinal Labs for analysis. Analytical results indicated that one (1) confirmation sample (CS-55) and two sidewall samples (SW-34A and SW-43A) exhibited concentrations of TPH and/or chlorides above the Table I Closure Criteria.

On January 12, 2024, after the excavation was completed by Lobo, NTGE conducted a final confirmation sampling event, whereby three (3) confirmation samples (CS-1B, CS-11A, CS-55A) and two (2) sidewall samples (SW-34B and SW-43B) were collected and submitted to Cardinal Labs for analysis. Analytical results indicated that none of the samples exhibited concentrations above the Table I Closure Criteria. Laboratory Analytical Reports are provided in Appendix D. A photographic log is provided as Appendix B and Confirmation Sampling Notifications are provided as Appendix C.

6. Soils Disposition and Backfill Activities

Between October 17, 2023, and January 17, 2024, approximately 2,194.87 tons of impacted material was transported offsite for disposal at Lea Land, LLC located in Carlsbad, New Mexico. Upon completion of the excavation, the site was backfilled with like-sourced materials and brought up to surface grade. Manifests are available upon request and aren't included in this report due to the size of the file.

7. Closure/Deferral Request

Based on the assessment, remediation efforts, and requisite confirmation sampling, the Site is in compliance with the NMOCD regulatory closure criteria with the exception of the areas of SW-6A, SW-7, SW-21, SW-27, and SW-28 adjacent to the onsite pumpjacks.

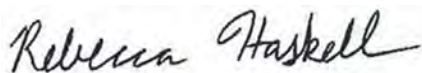
Mr. Mike Bratcher
February 23, 2024
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Further remediation of the area around the pumpjacks was not feasible due to the possible destabilization of the equipment. Deferral samples DV-1 through DV-3 and DH-1 through DH3 were placed within and adjacent to the pumpjacks and impacted areas to fully delineate the areas where a deferral is being requested. The deferral areas were fully delineated to concentrations below the Table I Closure Criteria. Based on the supporting documentation provided in this report, NTGE, on behalf of Earthstone (currently Permian Resources) respectfully requests closure for nAPP2324355629 with deferral of soils left in-situ above NMOCD Closure Criteria near soil samples SW-6A, SW-7, SW-21, SW-27, and SW-28, until time of abandonment or upgrade of equipment allows for accessibility to the area. The Release Notification portion of NMOCD form C-141 is included on 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



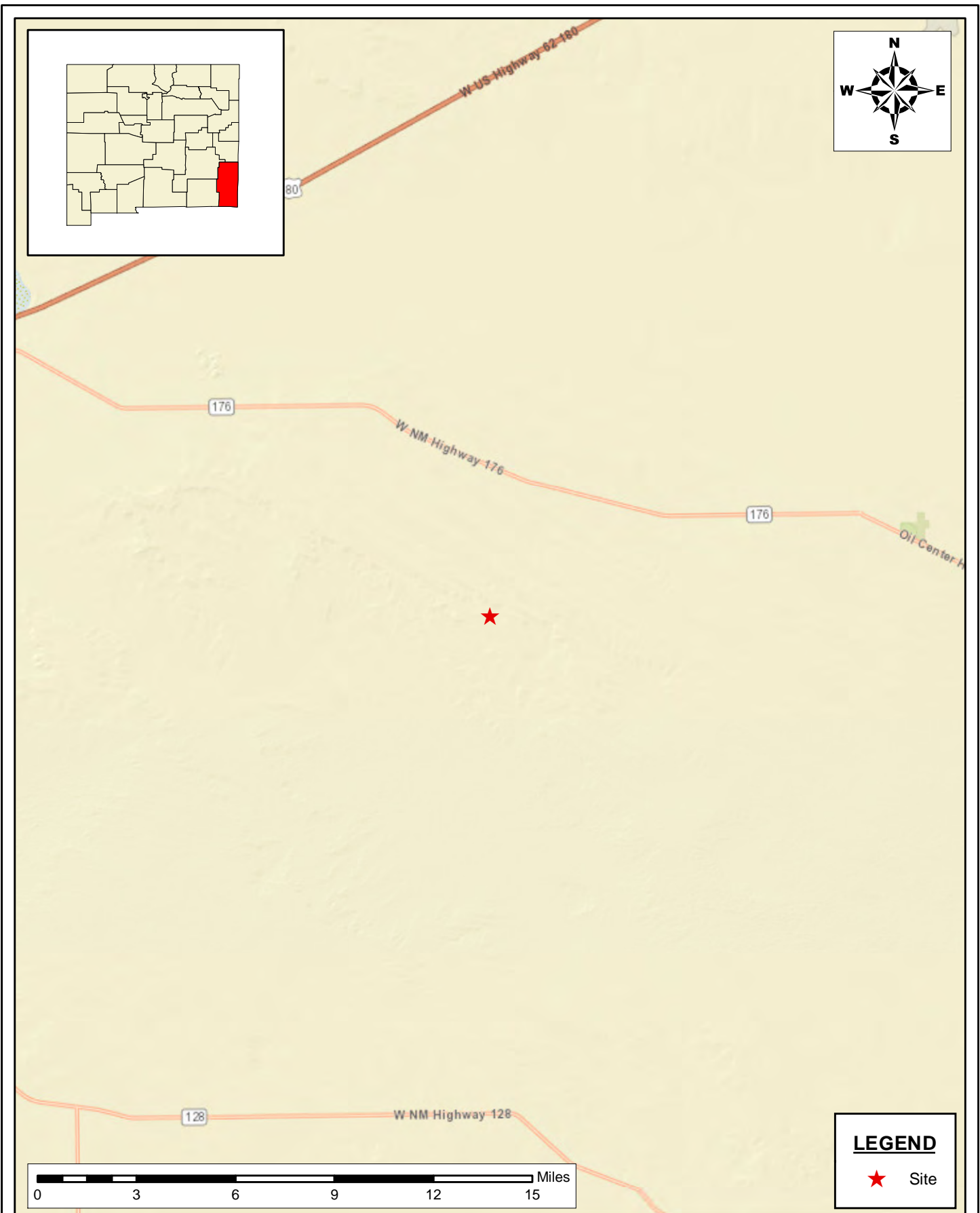
Becky Haskell
Senior Project Manager

Attachments:

- Figure 1: Site Location Map
- Figure 2: Topographic Map
- Figure 3: Site Delineation Sample Map
- Table I: Summary of Soil Analytical Data – Delineation Samples
- Appendix A: Site Characterization Documentation
- Appendix B: Photographic Log
- Appendix C: Confirmation Sampling Notifications
- Appendix D: Laboratory Analytical Reports and Chain -of-Custody Documentation


FIGURES

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SITE LOCATION MAP
SITE CHARACTERIZATION AND DEFERRAL REQUEST REPORT
EARTHSTONE OPERATING, LLC(PERMAIN RESOURCES)
GRAMA RIDGE EAST 34 STATE COM 3BS #005H
LEA COUNTY, NEW MEXICO
32.428549° -103.453621°

SCALE: As Shown Date: 2/22/2024 PROJECT #: 237778


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

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

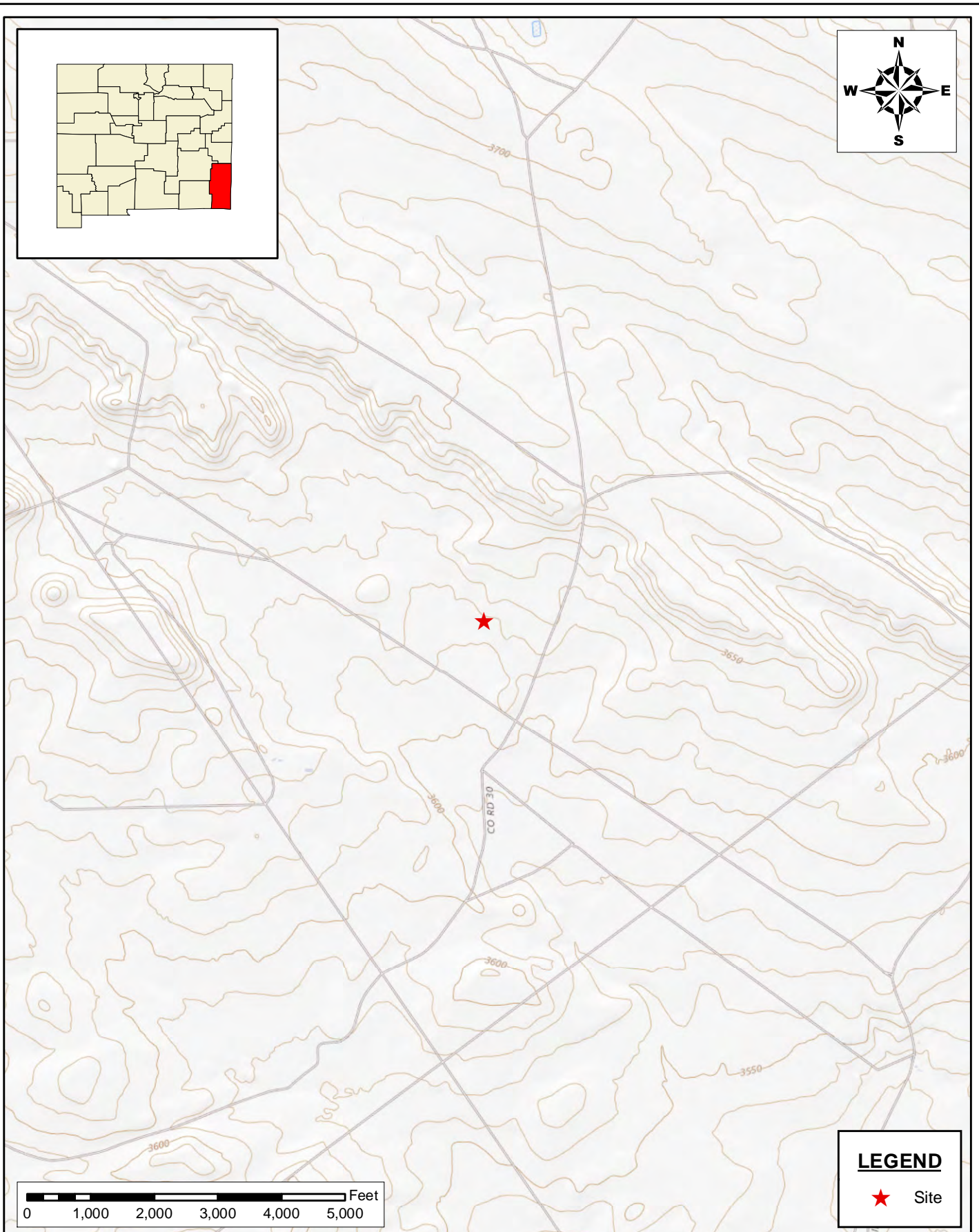
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FIGURE 1

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1 of 1

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TOPOGRAPHIC MAP
SITE CHARACTERIZATION AND DEFERRAL REQUEST REPORT
EARTHSTONE OPERATING, LLC(PERMAIN RESOURCES)
GRAMA RIDGE EAST 34 STATE COM 3BS #005H
LEA COUNTY, NEW MEXICO
32.428549° -103.453621°

SCALE: As Shown Date: 2/22/2024 PROJECT #: 237778


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Web: www.ntgenviroinmental.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

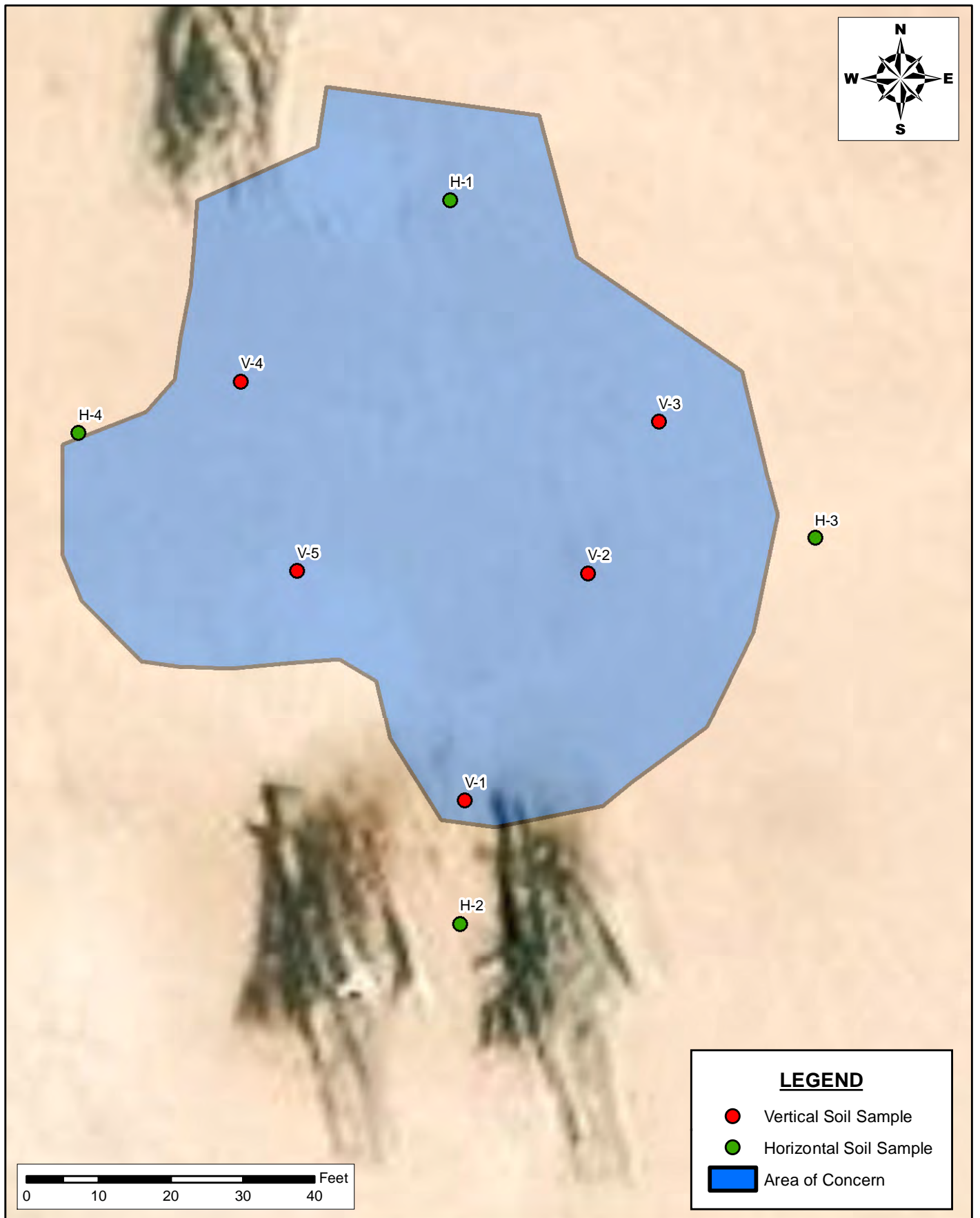
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FIGURE 2

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1 of 1

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DELINEATION SOIL SAMPLE MAP
SITE CHARACTERIZATION AND DEFERRAL REQUEST REPORT
 EARTHSTONE OPERATING, LLC (PERMIAN RESOURCES)
 GRAMA RIDGE EAST 34 STATE COM 3BS #005H
 LEA COUNTY, NEW MEXICO
 32.428549°, -103.453621°

SCALE: AS SHOWN DATE: 02/22/2024 PROJECT #: 237778



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NOTES:

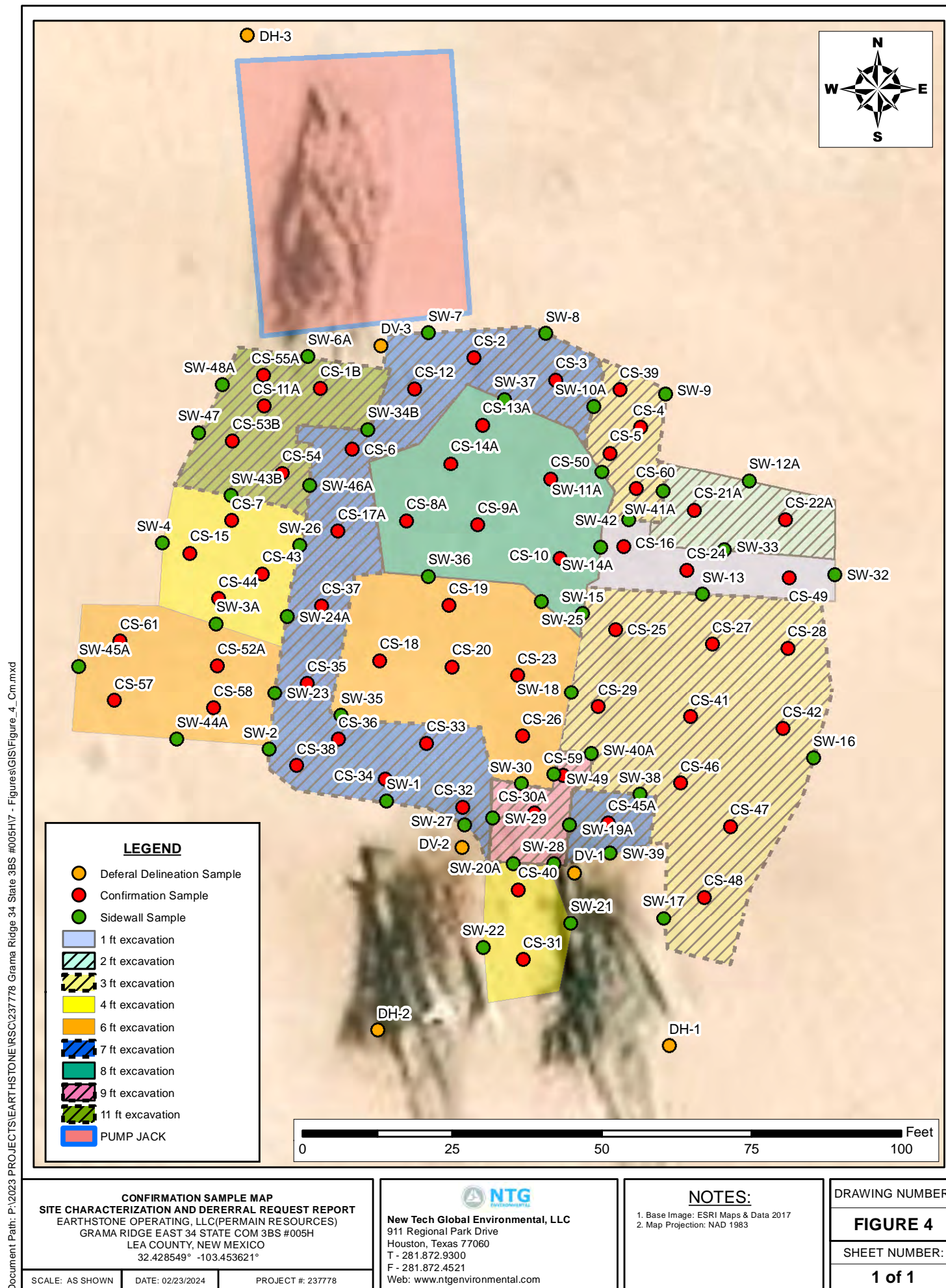
1. Base Image: ESRI Maps & Data 2017
 2. Map Projection: NAD 1983

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FIGURE 3

SHEET NUMBER:

1 of 1



TABLE

Table 1
Summary of Soil Analytical Data - Delineation Soil Samples
Grama Ridge 34 State 3BS #005H
Earthstone Energy (currently Permian Resources Operating, LLC)
Lea Co., NM

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride (mg/kg)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6- C35)	
			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
Vertical Delineation													
V-1	09/13/23	0-6"	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.1	3850	3850	<50.1	3,850	2,560
V-1	09/13/23	1-1.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.5	85.1	85.1	<50.5	85.1	1,740
V-1	09/13/23	2-2.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	508
V-1	09/13/23	3-3.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	159
V-2	09/13/23	0-6"	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.3	318	318	<50.3	318	491
V-2	09/13/23	1-1.5'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.5	108	108	<49.5	108	361
V-2	09/13/23	2-2.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.5	<49.5	<49.5	<49.5	<49.5	637
V-2	09/13/23	3-3.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	222
V-3	09/13/23	0-6"	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	526
V-3	09/13/23	1-1.5'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	183
V-3	09/13/23	2-2.5'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	170
V-4	09/13/23	0-6"	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.6	741	741	<49.6	741	1,340
V-4	09/13/23	1-1.5'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.3	132	132	<50.3	132	1,580
V-4	09/13/23	2-2.5'	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.4	<50.4	<50.4	<50.4	<50.4	977
V-4	09/13/23	3-3.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	240
V-5	09/13/23	0-6"	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.4	98.9	98.9	<50.4	98.9	3,810
V-5	09/13/23	1-1.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	1,390
V-5	09/13/23	2-2.5'	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<50.2	<50.2	<50.2	<50.2	<50.2	564
V-5	09/13/23	3-3.5'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	639
V-5	09/13/23	4-4.5'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	1,050
V-5	09/13/23	5-5.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,480
Horizontal Delineation													
H-1	09/13/23	0-6"	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.6	122	122	<49.6	122	337
H-2	09/13/23	0-6"	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	364
H-3	09/13/23	0-6"	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	392
H-4	09/13/23	0-6"	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	1,580

Notes:

- Values reported in mg/kg
- < = Value Less Than Reporting Limit (RL)
- Bold indicates Analyte Detected
- BTEX analyses by EPA Method SW 8021B

SP-1

Sample Point Excavated

- TPH analyses by EPA Method SW 8015 Mod.
- GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
- Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
- 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).
- Not Analyzed

Table 2
Summary of Soil Analytical Data - Confirmation Assessment Samples
Grama Ridge 34 State 3BS #005H
Earthstone Energy (currently Permian Resources Operating, LLC)
Lea Co., NM

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Base Confirmation Samples													
CS-1	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	273	273	<10.0	273	176
CS-1A	12/15/2023	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	34.1	34.1	<10.0	34.1	64.0
CS-1B	1/12/2024	11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	83.3	83.3	<10.0	83.3	16.0
CS-2	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	77.7	77.7	<10.0	77.7	352
CS-3	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-4	11/16/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	10.6	160
CS-5	11/16/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-6	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-7	11/16/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-8	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	289	289	<10.0	289	80.0
CS-8A	12/15/2023	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS-9	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	204	204	<10.0	204	176
CS-9A	12/15/2023	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-10	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.5	33.5	<10.0	33.5	48.0
CS-11	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	51.7	51.7	<10.0	51.7	48.0
CS-11A	1/12/2024	11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-12	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	40.0	40.0	<10.0	40.0	560
CS-13	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	271	271	<10.0	271	96.0
CS-13A	12/15/2023	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.7	19.7	<10.0	19.7	32.0
CS-14	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	408	408	<10.0	408	64.0
CS-14A	12/15/2023	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.1	15.1	<10.0	15.1	64.0
CS-15	11/16/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-16	11/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS-17	11/29/2023	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	64.0	64.0	<10.0	64.0	768
CS-17A	12/15/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-18	11/29/2023	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.2	62.2	<10.0	62.2	528
CS-19	11/29/2023	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	38.5	38.5	<10.0	38.5	144
CS-20	11/29/2023	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	50.6	50.6	<10.0	50.6	144
CS-21	11/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	163	163	<10.0	163	240
CS-21A	12/15/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-22	11/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	66.1	66.1	<10.0	66.1	720
CS-22A	12/15/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-23	11/16/2023	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
CS-24	11/29/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
CS-25	11/29/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.8	25.8	<10.0	25.8	416
CS-26	11/16/2023	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288

Table 2
Summary of Soil Analytical Data - Confirmation Assessment Samples
Grama Ridge 34 State 3BS #005H
Earthstone Energy (currently Permian Resources Operating, LLC)
Lea Co., NM

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(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
Base Confirmation Samples													
CS-27	11/29/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-28	11/29/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-29	11/29/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	66.4	66.4	<10.0	66.4	496
CS-30	11/29/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1360
CS-30A	12/15/2023	9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-31	11/29/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.9	26.9	<10.0	26.9	192
CS-32	11/16/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-33	11/16/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-34	11/16/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-35	11/16/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-36	11/16/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-37	11/16/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-38	11/16/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-39	11/16/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-40	11/16/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.9	33.9	<10.0	33.9	256
CS-41	11/29/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.1	13.1	<10.0	13.1	320
CS-42	11/29/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-43	11/16/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-44	11/16/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-45	11/29/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	140	140	<10.0	140	560
CS-45A	12/15/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-46	11/29/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.1	10.1	<10.0	10.1	208
CS-47	11/29/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
CS-48	11/29/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-49	12/15/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-50	12/15/2023	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.7	13.7	<10.0	13.7	48.0
CS-52	12/15/2023	9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1410
CS-52A	12/29/2023	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	161
CS-53	12/15/2023	7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	401	401	<10.0	401	48.0
CS-53A	12/29/2023	10'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.2	111	111	<50.2	111	11.1
CS-53B	1/11/2024	11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.6	15.6	<10.0	15.6	128
CS-54	1/11/2024	11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-55	1/11/2024	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	115	115	<10.0	115	224.0
CS-55A	1/12/2024	11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.5	10.5	<10.0	10.5	80.0
CS-56	1/11/2024	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	80.8	80.8	<10.0	80.8	32.0
CS-57	1/11/2024	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

Table 2
Summary of Soil Analytical Data - Confirmation Assessment Samples
Grama Ridge 34 State 3BS #005H
Earthstone Energy (currently Permian Resources Operating, LLC)
Lea Co., NM

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg			
Base Confirmation Samples													
CS-58	1/11/2024	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-59	1/9/2024	9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-60	1/9/2024	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-61	1/11/2024	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256.0
Side Wall Samples													
SW-1	11/29/2023	0-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-2	11/29/2023	0-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW-3	11/29/2023	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2260
SW-3A	12/29/2023	4'-6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	231
SW-4	11/29/2023	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	73.3	73.3	<10.0	73.3	400
SW-5	11/29/2023	0-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	212	212	<10.0	212	272
SW-5A	12/29/2023	8'-18'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	1880	1880	<49.8	1880	144
SW-5B	1/11/2024	8'-11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.1	21.1	<10.0	21.1	96
SW-6	11/29/2023	0-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	116	116	<10.0	116	112
SW-6A	12/29/2023	0-8'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	681	681	<49.8	681	1030
SW-7	11/29/2023	0-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1880
SW-8	11/29/2023	0-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SW-9	11/29/2023	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	340
SW-10	11/29/2023	3-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	784
SW-10A	12/15/2023	3-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW-11	11/29/2023	1-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.7	10.7	<10.0	10.7	608
SW-11A	12/15/2023	3-8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-12	11/29/2023	0-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.6	31.6	<10.0	31.6	816
SW-12A	12/15/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-13	11/29/2023	1-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW-14	11/29/2023	1-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	166	166	<10.0	166	648
SW-14A	12/15/2023	1-8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.2	18.2	<10.0	18.2	80.0
SW-15	11/29/2023	3-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.0	31.0	<10.0	31.0	96.0
SW-16	11/29/2023	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW-17	11/29/2023	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW-18	11/29/2023	3-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-19	11/29/2023	3-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832
SW-19A	12/15/2023	7-9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-20	11/29/2023	4-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
SW-20A	12/15/2023	4-9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SW-21	11/29/2023	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.4	14.4	<10.0	14.4	2560

Table 2
Summary of Soil Analytical Data - Confirmation Assessment Samples
Grama Ridge 34 State 3BS #005H
Earthstone Energy (currently Permian Resources Operating, LLC)
Lea Co., NM

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg			
Base Confirmation Samples													
SW-22	11/29/2023	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
SW-23	11/29/2023	6-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW-24	11/29/2023	4-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.8
SW-24A	12/15/2023	4-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-25	11/29/2023	6-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-26	11/29/2023	4-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW-27	11/29/2023	6-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1630
SW-28	12/15/2023	0-9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1310
SW-29	12/15/2023	7-9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-30	12/15/2023	6-9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.8	23.8	<10.0	23.8	432
SW-31	12/15/2023	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
SW-32	12/15/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW-33	12/15/2023	1-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-34	12/29/2023	7-8'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.5	119	119	<50.5	119	1040
SW-34A	1/11/2024	7-8'	<0.050	<0.050	0.053	0.249	0.382	26.4	246	272.4	<10.0	272.4	32.8
SW-34B	1/12/2024	7-11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	32.7	32.7	<10.0	32.7	32.0
SW-35	12/15/2023	6-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-36	12/15/2023	6-8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-37	12/15/2023	7-8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-38	12/15/2023	3-7'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW-39	12/29/2023	0-7'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.5	92.9	92.9	<50.5	92.9	3140
SW-40	12/29/2023	3'-9'	<0.00201	0.00371	<0.00201	0.0163	0.0200	<50.1	<50.1	<50.1	<50.1	<50.1	3790
SW-40A	1/9/2024	3'-9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-41	12/29/2023	2'-3'	<0.00109	<0.00109	<0.00109	<0.00398	<0.00398	<49.7	125	125	<49.7	125	867
SW-41A	1/9/2024	2-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-42	12/29/2023	1'-3'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	341
SW-43	12/29/2023	0-10'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.1	1470	1470	<50.1	1470	78.6
SW-43A	1/11/2024	9'-11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	419	419	<10.0	419	720
SW-43B	1/12/2024	4-11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	52.3	52.3	<10.0	52.3	48.0
SW-44	12/29/2023	0-6'	<0.00109	<0.00109	<0.00109	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	11400
SW-44A	1/11/2024	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	46.7	46.7	<10.0	46.7	368
SW-45	12/29/2023	0-6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.1	152	152	<50.1	152	1070
SW-45A	1/11/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW-46	12/29/2023	6-10'	<0.00109	<0.00109	<0.00109	<0.00398	<0.00398	<50.5	1960	1960	<50.5	1960	311
SW-46A	1/11/2024	7'-11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.7	44.7	<10.0	44.7	48
SW-47	12/29/2023	0-10'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.2	128	128	<50.2	128	144

Table 2
Summary of Soil Analytical Data - Confirmation Assessment Samples
Grama Ridge 34 State 3BS #005H
Earthstone Energy (currently Permian Resources Operating, LLC)
Lea Co., NM

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Base Confirmation Samples													
SW-48	12/29/2023	0-8'	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<50.1	1880	1880	<50.1	1880	1030
SW-48A	1/11/2024	0-11'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.2	19.2	<10.0	19.2	112
SW-49	1/9/2024	6-9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Deferral Samples													
DH-1	1/5/2024	6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
DH-2	1/5/2024	6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
DH-3	1/5/2024	6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
DV-1	1/5/2024	9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
DV-2	1/5/2024	9'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	111	111	11.6	122.6	352
DV-2	1/9/2024	10'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
DV-3	1/5/2024	8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.7	17.7	<10.0	17.7	80.0

Notes:

1. Values reported in mg/kg

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

3. Bold indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B

SP-1 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

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

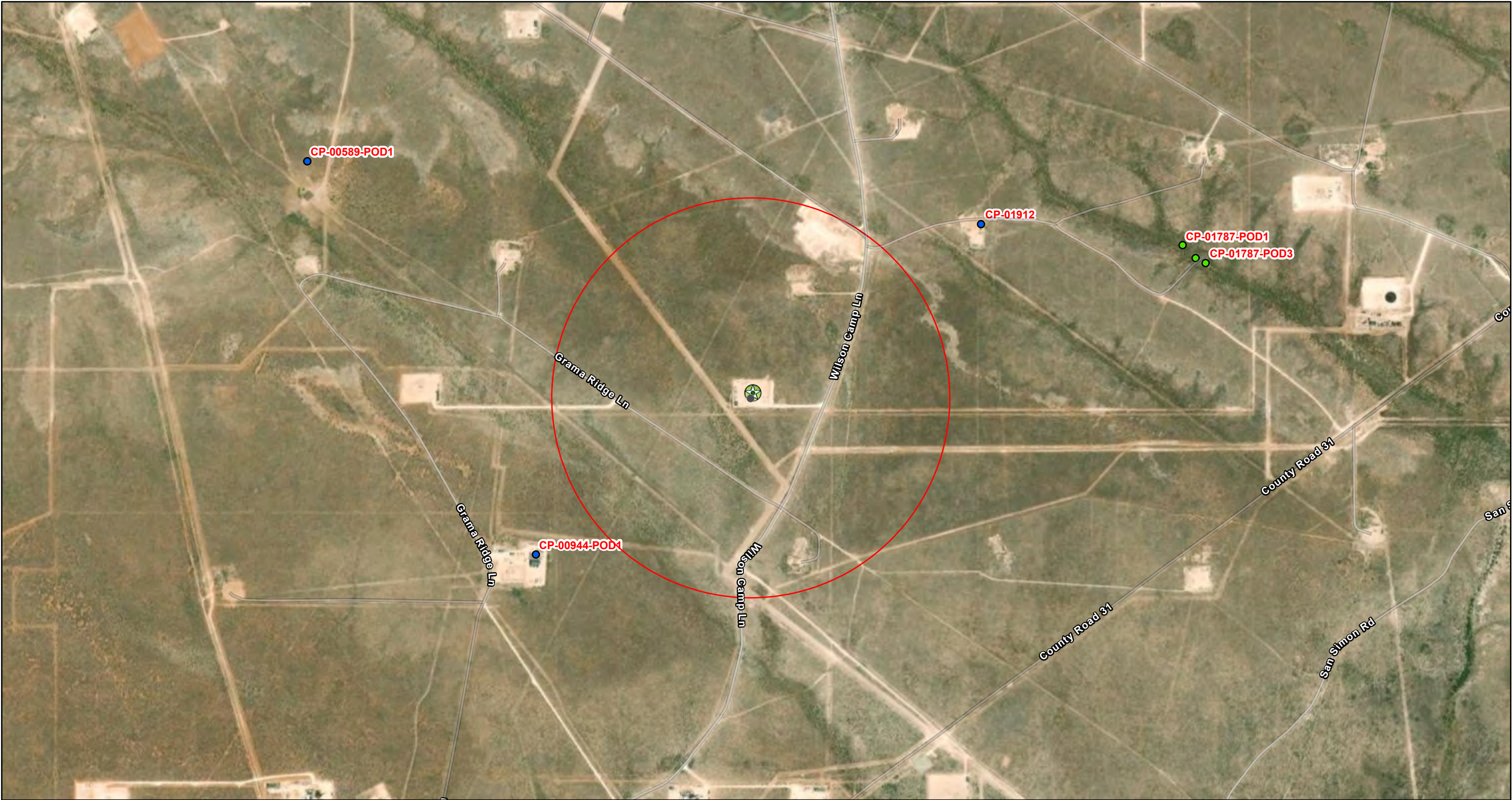
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

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

9. --- Not Analyzed

APPENDIX A: SITE CHARACTERIZATION DOCUMENTATION



OSE POD Location Map

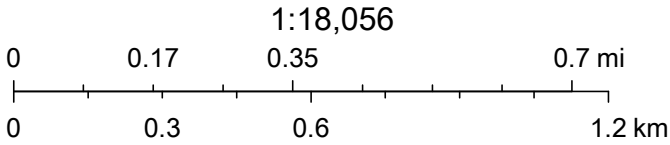


9/27/2023, 10:55:16 AM

 Site Location

GIS WATERS PODs

-  Active
-  Pending




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New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00944 POD1	3	1	03	22S	34E	644531	3588351	
x									
Driller License:		1456	Driller Company:			WHITE DRILLING COMPANY			
Driller Name:		WHITE, JOHN W							
Drill Start Date:		03/05/2007	Drill Finish Date:			03/05/2007	Plug Date:		
Log File Date:		03/22/2007	PCW Rcv Date:				Source:		Shallow
Pump Type:			Pipe Discharge Size:				Estimated Yield:		
Casing Size:		5.00	Depth Well:			109 feet	Depth Water:		70 feet
x									
Water Bearing Stratifications:				Top	Bottom	Description			
				62	72	Other/Unknown			
x									
Casing Perforations:				Top	Bottom				
				57	97				
x									

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

File Number: _____

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD**

1. OWNER OF WELL

Enstor Grama Ridge Storage & Transportation
 Name: Enstor Grama Ridge Storage & Transportation Work Phone: _____
 Contact: _____ Home Phone: _____
 Address: 20333 State Hwy. 249, Suite 400
 City: Houston State: TX Zip: 77070

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. 1/4 SW 1/4 NW Section: 3 Township: 22S Range: 34E N.M.P.M.
 in Lea County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
 _____ Zone in the _____ Grant.
 U.S.G.S. Quad Map _____

C. Latitude: 32 d 25 m 22.4 s Longitude: 103 d 27 m 46.2 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
 _____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): State of New Mexico

3. DRILLING CONTRACTOR

License Number: WD-1456
 Name: White Drilling Company, Inc. Work Phone: 325-893-2950
 Agent: John W. White Home Phone: 325-893-2950
 Mailing Address: P.O. Box 906
 City: Clyde State: TX Zip: 79510

4. DRILLING RECORD: WW#1

Drilling began: 3/05/07; Completed: 3/05/07; Type tools: Air Rotary;
 Size of hole: 8 3/4 in.; Total depth of well: 109.0 ft.;
 Completed well is: shallow (shallow, artesian);
 Depth to water upon completion of well: 70.0 ft.

File Number: CP-944
 Form: wr-20 page 1 of 4

Trn Number: 374942 W1667

22.34.3.13

Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com

File Number: _____

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD**

5. PRINCIPAL WATER-BEARING STRATA: WW#1

Depth in Feet		Thickness	Description of	Estimated Yield
From	To	in feet	water-bearing formation	(GPM)
62.0	72.0	10.0	Orange brown sand moist.	

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5.0	Sch. 40	4.0	0.0	57.0	57.0			
5.0	.035	4.0	57.0	97.0	40.0		57.0	97.0

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole	Sacks	Cubic Feet	Method of Placement
From	To	Diameter	of mud	of Cement	
100.0	54.0	8 3/4	28.0		8/16 sand.
54.0	30.0	8 3/4	9.0		Bentonite pellets.
30.0	0.0	8 3/4	22.0		Cement – hand mix

8. PLUGGING RECORD

Plugging Contractor: _____
 Address: _____
 Plugging Method: _____
 Date Well Plugged: _____

Plugging approved by: _____
 State Engineer Representative

	No. Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			
5			

File Number: _____ Trn Number: _____

Form: wr-20 page 2 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD[illegible]

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
2001 MAR 22 A 10: 57

Trn Number: 374942

page 3 of 4

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NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS: WW#1
Domestic water well.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

(mm/dd/year)

FOR STATE ENGINEER USE ONLY

Quad _____ ; FWL _____ ; FSL _____ ; Use _____ ; Location No. _____




File Number: _____
Form: wr-20 _____ page 4 of 4

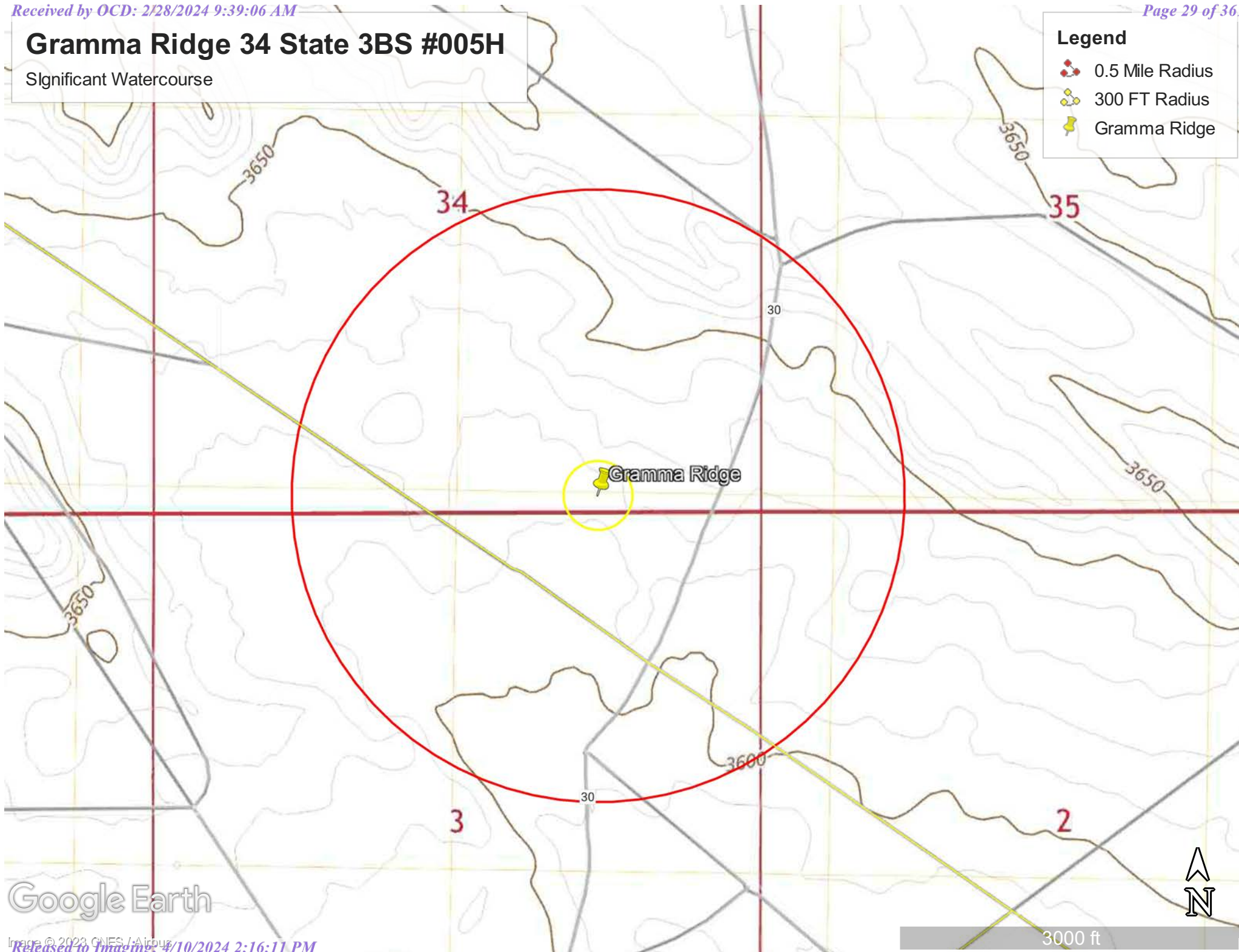
Trn Number:

Gramma Ridge 34 State 3BS #005H

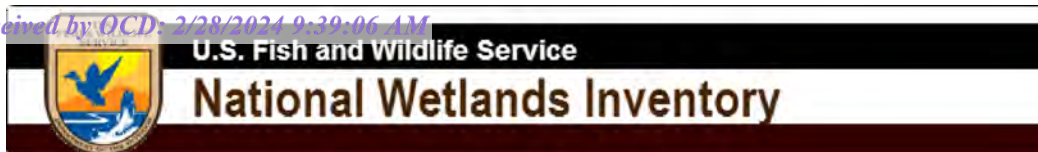
Significant Watercourse

Legend

-  0.5 Mile Radius
-  300 FT Radius
-  Gramma Ridge



Google Earth



Gamma 34 State 3BS #005H



August 30, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMette



103°27'32"W 32°25'58"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°26'55"W 32°25'28"N

Released to Imaging: 4/10/2024 2:16:11 PM

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
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 8/30/2023 at 4:15 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX B: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG
Earthstone Operating, LLC
Grama Ridge 34 State 3BS # 005H

Photograph No. 1

Facility: Grama Ridge 34 State 3BS #005H

County: Lea County, New Mexico

Description:
View of release area.

**Photograph No. 2**

Facility: Grama Ridge 34 State 3BS #005H

County: Lea County, New Mexico

Description:
View of the release area.

**Photograph No. 3**

Facility: Grama Ridge 34 State 3BS #005H

County: Lea County, New Mexico

Description:
Area of excavation.



PHOTOGRAPHIC LOG
Earthstone Operating, LLC
Grama Ridge 34 State 3BS # 005H

Photograph No. 4

Facility: Grama Ridge 34 State 3BS #005H

County: Lea County, New Mexico

Description:
Area of excavation.

**Photograph No. 5**

Facility: Grama Ridge 34 State 3BS #005H

County: Lea County, New Mexico

Description:
Area of excavation.

**Photograph No. 6**

Facility: Grama Ridge 34 State 3BS #005H

County: Lea County, New Mexico

Description:
Area of excavation.



PHOTOGRAPHIC LOG
Earthstone Operating, LLC
Grama Ridge 34 State 3BS # 005H

Photograph No. 7

Facility: Grama Ridge 34 State 3BS #005H

County: Lea County, New Mexico

Description:
Completed backfill of site.



Photograph No. 8

Facility: Grama Ridge 34 State 3BS #005H

County: Lea County, New Mexico

Description:
Area of excavation.



APPENDIX C: CONFIRMATION SAMPLING NOTIFICATIONS

From: [Wells, Shelly, EMNRD](#)
To: [Ricardo Baer](#)
Cc: [Becky Haskell](#); [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] GRAMA RIDGE EAST 34 STATE COM 3BS #005H
Date: Wednesday, November 1, 2023 3:49:06 PM
Attachments: [image001.png](#)
[image002.png](#)

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

Good afternoon Ricardo,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, November 1, 2023 2:30 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: NTG Env Carlsbad <ntg_env_carlsbad@ntglobal.com>; Becky Haskell <bhaskell@ntglobal.com>
Subject: [EXTERNAL] GRAMA RIDGE EAST 34 STATE COM 3BS #005H

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

Good afternoon,

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

GRAMA RIDGE EAST 34 STATE COM 3BS #005H
O-34-21S-34E
Lea County, NM
nAPP2324355629

Sampling will begin at 8:00 a.m. on Monday, November 6, 2023, and continue through Friday, November 10, 2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO²

Project Coordinator

(432) 556-2006

Rbaer@ntglobal.com



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

Becky Haskell

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, November 9, 2023 2:07 PM
To: Ricardo Baer
Cc: Becky Haskell; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] GRAMA RIDGE EAST 34 STATE COM 3BS #005H

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Hi Ricardo,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Thursday, November 9, 2023 12:09 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Becky Haskell <bhaskell@ntglobal.com>; NTG Env Carlsbad <ntg_env_carlsbad@ntglobal.com>
Subject: [EXTERNAL] GRAMA RIDGE EAST 34 STATE COM 3BS #005H

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

Good afternoon,

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

GRAMA RIDGE EAST 34 STATE COM 3BS #005H
O-34-21S-34E
Lea County, NM
nAPP2324355629

Sampling will begin at 8:00 a.m. on Tuesday, November 14, 2023, and continue through Friday, November 17, 2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO²

Project Coordinator

(432) 556-2006

Rbaer@ntglobal.com



NTG
ENVIRONMENTAL



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Becky Haskell

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, November 21, 2023 11:41 AM
To: Ricardo Baer
Cc: Becky Haskell; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] GRAMA RIDGE EAST 34 STATE COM 3BS #005H

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

Hi Ricardo,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Tuesday, November 21, 2023 10:28 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Becky Haskell <bhaskell@ntglobal.com>; NTG Env Carlsbad <ntg_env_carlsbad@ntglobal.com>
Subject: [EXTERNAL] GRAMA RIDGE EAST 34 STATE COM 3BS #005H

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

Good Morning,

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

GRAMA RIDGE EAST 34 STATE COM 3BS #005H
O-34-21S-34E
Lea County, NM
nAPP2324355629

Sampling will begin at 8:00 a.m. on Monday, November 27, 2023, and continue through Friday, December 1, 2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO²

Project Coordinator

(432) 556-2006

Rbaer@ntglobal.com



NTG
ENVIRONMENTAL



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From: [Ricardo Baer](#)
To: ocd.enviro@emnrd.nm.gov
Cc: [Becky Haskell](#); [NTG Env Carlsbad](#)
Subject: GRAMA RIDGE EAST 34 STATE COM 3BS #005H
Date: Wednesday, December 6, 2023 1:15:04 PM
Attachments: [image001.png](#)
[image002.png](#)

Good Morning,

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

GRAMA RIDGE EAST 34 STATE COM 3BS #005H
O-34-21S-34E
Lea County, NM
nAPP2324355629

Sampling will begin at 8:00 a.m. on Monday, December 11, 2023, and continue through Friday, December 15, 2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO²

Project Coordinator

(432) 556-2006

Rbaer@ntglobal.com



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APPENDIX D: LABORATORY ANALYTICAL REPORTS AND CHAIN- OF-CUSTODY DOCUMENTATION



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Becky Haskell
NT Global

701 Tradewinds Blvd
Midland, Texas 79706

Generated 9/20/2023 4:26:02 PM

JOB DESCRIPTION

Earthstone-Gramma Ridge 34 State 3BS #005H
SDG NUMBER Lea Co., NM

JOB NUMBER

880-33291-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
9/20/2023 4:26:02 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Laboratory Job ID: 880-33291-1
SDG: Lea Co., NM

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Definitions/Glossary

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Job ID: 880-33291-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-33291-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/14/2023 2:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.3°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: V-1 (0-6") (880-33291-1), V-1 (1-1.5') (880-33291-2), V-1 (2-2.5') (880-33291-3), V-1 (3-3.5') (880-33291-4), V-2 (0-6") (880-33291-5), V-2 (1-1.5') (880-33291-6), V-2 (2-2.5') (880-33291-7), V-2 (3-3.5') (880-33291-8), V-2 (4-4.5') (880-33291-9), V-3 (0-6") (880-33291-10), V-3 (1-1.5') (880-33291-11), V-3 (2-2.5') (880-33291-12), V-4 (0-6") (880-33291-13), V-4 (1-1.5') (880-33291-14), V-4 (2-2.5') (880-33291-15), V-4 (3-3.5') (880-33291-16), V-5 (0-6") (880-33291-17), V-5 (1-1.5') (880-33291-18), V-5 (2-2.5') (880-33291-19), V-5 (3-3.5') (880-33291-20), V-5 (4-4.5') (880-33291-21), V-5 (5-5.5') (880-33291-22), H-1 (0-6") (880-33291-23), H-2 (0-6") (880-33291-24), H-3 (0-6") (880-33291-25) and H-4 (0-6") (880-33291-26).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62481 and analytical batch 880-62513 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-62513 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-62479 and analytical batch 880-62513 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: V-1 (0-6") (880-33291-1), V-1 (1-1.5') (880-33291-2), V-1 (2-2.5') (880-33291-3), V-1 (3-3.5') (880-33291-4), V-2 (0-6") (880-33291-5), V-2 (1-1.5') (880-33291-6), V-2 (2-2.5') (880-33291-7), V-2 (3-3.5') (880-33291-8), V-3 (0-6") (880-33291-10), V-3 (1-1.5') (880-33291-11), V-3 (2-2.5') (880-33291-12), V-4 (0-6") (880-33291-13), V-4 (1-1.5') (880-33291-14), V-4 (2-2.5') (880-33291-15), V-4 (3-3.5') (880-33291-16), V-5 (0-6") (880-33291-17), V-5 (1-1.5') (880-33291-18), V-5 (2-2.5') (880-33291-19), V-5 (3-3.5') (880-33291-20), V-5 (4-4.5') (880-33291-21), V-5 (5-5.5') (880-33291-22), H-1 (0-6") (880-33291-23), H-2 (0-6") (880-33291-24), H-3 (0-6") (880-33291-25), H-4 (0-6") (880-33291-26), (CCV 880-62513/2), (CCV 880-62513/20), (CCV 880-62513/33), (CCV 880-62513/51), (CCV 880-62513/64), (CCV 880-62513/82), (LCS 880-62479/1-A), (LCS 880-62481/1-A), (LCSD 880-62479/2-A), (LCSD 880-62481/2-A), (MB 880-62479/5-A), (MB 880-62481/5-A), (880-33291-A-1-A MS), (880-33291-A-1-B MSD), (880-33291-A-21-A MS) and (880-33291-A-21-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Case Narrative

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Job ID: 880-33291-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-62493 and analytical batch 880-62509 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-62509/31), (CCV 880-62509/47), (CCV 880-62509/58) and (LCS 880-62493/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: V-1 (0-6") (880-33291-1), V-1 (1-1.5') (880-33291-2), V-1 (2-2.5') (880-33291-3), V-1 (3-3.5') (880-33291-4), V-2 (0-6") (880-33291-5), V-2 (1-1.5') (880-33291-6), V-2 (2-2.5') (880-33291-7), V-2 (3-3.5') (880-33291-8), V-3 (0-6") (880-33291-10), V-3 (1-1.5') (880-33291-11), V-3 (2-2.5') (880-33291-12), V-4 (0-6") (880-33291-13), V-4 (1-1.5') (880-33291-14), V-4 (2-2.5') (880-33291-15), V-4 (3-3.5') (880-33291-16), (890-5251-A-12-B), (890-5251-A-12-C MS) and (890-5251-A-12-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62493 and analytical batch 880-62509 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: V-5 (0-6") (880-33291-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: V-5 (2-2.5') (880-33291-19), V-5 (3-3.5') (880-33291-20), V-5 (4-4.5') (880-33291-21), V-5 (5-5.5') (880-33291-22), H-2 (0-6") (880-33291-24), H-3 (0-6") (880-33291-25) and H-4 (0-6") (880-33291-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62557 and analytical batch 880-62821 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-62558 and analytical batch 880-62851 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-1 (0-6")

Lab Sample ID: 880-33291-1

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 03:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 03:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 03:53	1
m-Xylene & p-Xylene	<0.00402	U *	0.00402		mg/Kg		09/14/23 15:52	09/16/23 03:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 03:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/14/23 15:52	09/16/23 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	200	S1+	70 - 130	09/14/23 15:52	09/16/23 03:53	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/14/23 15:52	09/16/23 03:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/16/23 03:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3850		50.1		mg/Kg			09/15/23 21:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		09/14/23 17:06	09/15/23 21:15	1
Diesel Range Organics (Over C10-C28)	3850		50.1		mg/Kg		09/14/23 17:06	09/15/23 21:15	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		09/14/23 17:06	09/15/23 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130	09/14/23 17:06	09/15/23 21:15	1
o-Terphenyl	130		70 - 130	09/14/23 17:06	09/15/23 21:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2560		24.9		mg/Kg			09/18/23 23:57	5

Client Sample ID: V-1 (1-1.5')

Lab Sample ID: 880-33291-2

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 04:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 04:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 04:19	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		09/14/23 15:52	09/16/23 04:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 04:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/23 15:52	09/16/23 04:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	226	S1+	70 - 130	09/14/23 15:52	09/16/23 04:19	1
1,4-Difluorobenzene (Surr)	110		70 - 130	09/14/23 15:52	09/16/23 04:19	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-1 (1-1.5')

Lab Sample ID: 880-33291-2

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/16/23 04:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.1		50.5		mg/Kg			09/15/23 21:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		09/14/23 17:06	09/15/23 21:37	1
Diesel Range Organics (Over C10-C28)	85.1		50.5		mg/Kg		09/14/23 17:06	09/15/23 21:37	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/14/23 17:06	09/15/23 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130				09/14/23 17:06	09/15/23 21:37	1
o-Terphenyl	146	S1+	70 - 130				09/14/23 17:06	09/15/23 21:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1740		24.8		mg/Kg			09/19/23 00:17	5

Client Sample ID: V-1 (2-2.5')

Lab Sample ID: 880-33291-3

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 04:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 04:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 04:45	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		09/14/23 15:52	09/16/23 04:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 04:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/23 15:52	09/16/23 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	181	S1+	70 - 130				09/14/23 15:52	09/16/23 04:45	1
1,4-Difluorobenzene (Surr)	106		70 - 130				09/14/23 15:52	09/16/23 04:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/16/23 04:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/15/23 21:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/14/23 17:06	09/15/23 21:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/14/23 17:06	09/15/23 21:58	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-1 (2-2.5')

Lab Sample ID: 880-33291-3

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/14/23 17:06	09/15/23 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				09/14/23 17:06	09/15/23 21:58	1
o-Terphenyl	142	S1+	70 - 130				09/14/23 17:06	09/15/23 21:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	508		5.04		mg/Kg			09/19/23 00:24	1

Client Sample ID: V-1 (3-3.5')

Lab Sample ID: 880-33291-4

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 05:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 05:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 05:11	1
m-Xylene & p-Xylene	<0.00399	U *	0.00399		mg/Kg		09/14/23 15:52	09/16/23 05:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 05:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/14/23 15:52	09/16/23 05:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	295	S1+	70 - 130				09/14/23 15:52	09/16/23 05:11	1
1,4-Difluorobenzene (Surr)	70		70 - 130				09/14/23 15:52	09/16/23 05:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/16/23 05:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/15/23 22:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/14/23 17:06	09/15/23 22:20	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/14/23 17:06	09/15/23 22:20	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/14/23 17:06	09/15/23 22:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				09/14/23 17:06	09/15/23 22:20	1
o-Terphenyl	136	S1+	70 - 130				09/14/23 17:06	09/15/23 22:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		5.02		mg/Kg			09/19/23 00:30	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-2 (0-6")

Lab Sample ID: 880-33291-5

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 05:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 05:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 05:38	1
m-Xylene & p-Xylene	<0.00402	U *	0.00402		mg/Kg		09/14/23 15:52	09/16/23 05:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 05:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/14/23 15:52	09/16/23 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	196	S1+	70 - 130	09/14/23 15:52	09/16/23 05:38	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/14/23 15:52	09/16/23 05:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/16/23 05:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	318		50.3		mg/Kg			09/15/23 22:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/14/23 17:06	09/15/23 22:41	1
Diesel Range Organics (Over C10-C28)	318		50.3		mg/Kg		09/14/23 17:06	09/15/23 22:41	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/14/23 17:06	09/15/23 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	09/14/23 17:06	09/15/23 22:41	1
o-Terphenyl	132	S1+	70 - 130	09/14/23 17:06	09/15/23 22:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	491		5.05		mg/Kg			09/19/23 00:37	1

Client Sample ID: V-2 (1-1.5')

Lab Sample ID: 880-33291-6

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 06:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 06:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 06:04	1
m-Xylene & p-Xylene	<0.00401	U *	0.00401		mg/Kg		09/14/23 15:52	09/16/23 06:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 06:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/14/23 15:52	09/16/23 06:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	295	S1+	70 - 130	09/14/23 15:52	09/16/23 06:04	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/14/23 15:52	09/16/23 06:04	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-2 (1-1.5')

Lab Sample ID: 880-33291-6

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/16/23 06:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	108		49.5		mg/Kg			09/15/23 23:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		09/14/23 17:06	09/15/23 23:25	1
Diesel Range Organics (Over C10-C28)	108		49.5		mg/Kg		09/14/23 17:06	09/15/23 23:25	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		09/14/23 17:06	09/15/23 23:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				09/14/23 17:06	09/15/23 23:25	1
o-Terphenyl	129		70 - 130				09/14/23 17:06	09/15/23 23:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	361		5.01		mg/Kg			09/19/23 00:43	1

Client Sample ID: V-2 (2-2.5')

Lab Sample ID: 880-33291-7

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 06:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 06:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 06:30	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		09/14/23 15:52	09/16/23 06:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 06:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/23 15:52	09/16/23 06:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	290	S1+	70 - 130				09/14/23 15:52	09/16/23 06:30	1
1,4-Difluorobenzene (Surr)	107		70 - 130				09/14/23 15:52	09/16/23 06:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/16/23 06:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			09/15/23 23:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		09/14/23 17:06	09/15/23 23:47	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		09/14/23 17:06	09/15/23 23:47	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-2 (2-2.5')

Lab Sample ID: 880-33291-7

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		09/14/23 17:06	09/15/23 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				09/14/23 17:06	09/15/23 23:47	1
o-Terphenyl	140	S1+	70 - 130				09/14/23 17:06	09/15/23 23:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	637	F1	4.99		mg/Kg			09/19/23 00:50	1

Client Sample ID: V-2 (3-3.5')

Lab Sample ID: 880-33291-8

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 06:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 06:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 06:56	1
m-Xylene & p-Xylene	<0.00399	U *	0.00399		mg/Kg		09/14/23 15:52	09/16/23 06:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 06:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/14/23 15:52	09/16/23 06:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	226	S1+	70 - 130				09/14/23 15:52	09/16/23 06:56	1
1,4-Difluorobenzene (Surr)	101		70 - 130				09/14/23 15:52	09/16/23 06:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/16/23 06:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			09/16/23 00:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		09/14/23 17:06	09/16/23 00:09	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		09/14/23 17:06	09/16/23 00:09	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		09/14/23 17:06	09/16/23 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130				09/14/23 17:06	09/16/23 00:09	1
o-Terphenyl	143	S1+	70 - 130				09/14/23 17:06	09/16/23 00:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222		4.97		mg/Kg			09/19/23 01:10	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-3 (0-6")

Lab Sample ID: 880-33291-10

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 07:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 07:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 07:51	1
m-Xylene & p-Xylene	<0.00399	U *	0.00399		mg/Kg		09/14/23 15:52	09/16/23 07:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 07:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/14/23 15:52	09/16/23 07:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	255	S1+	70 - 130	09/14/23 15:52	09/16/23 07:51	1
1,4-Difluorobenzene (Surr)	74		70 - 130	09/14/23 15:52	09/16/23 07:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/16/23 07:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/16/23 00:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/14/23 17:06	09/16/23 00:31	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/14/23 17:06	09/16/23 00:31	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/14/23 17:06	09/16/23 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	09/14/23 17:06	09/16/23 00:31	1
o-Terphenyl	127		70 - 130	09/14/23 17:06	09/16/23 00:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	526		4.98		mg/Kg			09/19/23 01:17	1

Client Sample ID: V-3 (1-1.5')

Lab Sample ID: 880-33291-11

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 09:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 09:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 09:37	1
m-Xylene & p-Xylene	<0.00402	U *	0.00402		mg/Kg		09/14/23 15:52	09/16/23 09:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 09:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/14/23 15:52	09/16/23 09:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	249	S1+	70 - 130	09/14/23 15:52	09/16/23 09:37	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/14/23 15:52	09/16/23 09:37	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-3 (1-1.5')

Lab Sample ID: 880-33291-11

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/16/23 09:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/16/23 00:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/14/23 17:06	09/16/23 00:52	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/14/23 17:06	09/16/23 00:52	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/14/23 17:06	09/16/23 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				09/14/23 17:06	09/16/23 00:52	1
o-Terphenyl	127		70 - 130				09/14/23 17:06	09/16/23 00:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		5.03		mg/Kg			09/19/23 14:34	1

Client Sample ID: V-3 (2-2.5')

Lab Sample ID: 880-33291-12

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 10:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 10:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 10:04	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		09/14/23 15:52	09/16/23 10:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 10:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/14/23 15:52	09/16/23 10:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	298	S1+	70 - 130				09/14/23 15:52	09/16/23 10:04	1
1,4-Difluorobenzene (Surr)	92		70 - 130				09/14/23 15:52	09/16/23 10:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/16/23 10:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/16/23 01:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/14/23 17:06	09/16/23 01:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/14/23 17:06	09/16/23 01:14	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-3 (2-2.5')

Lab Sample ID: 880-33291-12

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/14/23 17:06	09/16/23 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				09/14/23 17:06	09/16/23 01:14	1
o-Terphenyl	137	S1+	70 - 130				09/14/23 17:06	09/16/23 01:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		5.04		mg/Kg			09/19/23 14:40	1

Client Sample ID: V-4 (0-6")

Lab Sample ID: 880-33291-13

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 10:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 10:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 10:30	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		09/14/23 15:52	09/16/23 10:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 10:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/23 15:52	09/16/23 10:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	268	S1+	70 - 130				09/14/23 15:52	09/16/23 10:30	1
1,4-Difluorobenzene (Surr)	89		70 - 130				09/14/23 15:52	09/16/23 10:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/16/23 10:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	741		49.6		mg/Kg			09/16/23 01:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/14/23 17:06	09/16/23 01:36	1
Diesel Range Organics (Over C10-C28)	741		49.6		mg/Kg		09/14/23 17:06	09/16/23 01:36	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/14/23 17:06	09/16/23 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				09/14/23 17:06	09/16/23 01:36	1
o-Terphenyl	117		70 - 130				09/14/23 17:06	09/16/23 01:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		25.0		mg/Kg			09/19/23 14:47	5

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-4 (1-1.5')

Lab Sample ID: 880-33291-14

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 10:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 10:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 10:57	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		09/14/23 15:52	09/16/23 10:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/14/23 15:52	09/16/23 10:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/14/23 15:52	09/16/23 10:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	332	S1+	70 - 130	09/14/23 15:52	09/16/23 10:57	1
1,4-Difluorobenzene (Surr)	88		70 - 130	09/14/23 15:52	09/16/23 10:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/16/23 10:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	132		50.3		mg/Kg			09/16/23 01:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/14/23 17:06	09/16/23 01:58	1
Diesel Range Organics (Over C10-C28)	132		50.3		mg/Kg		09/14/23 17:06	09/16/23 01:58	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/14/23 17:06	09/16/23 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	09/14/23 17:06	09/16/23 01:58	1
o-Terphenyl	123		70 - 130	09/14/23 17:06	09/16/23 01:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		24.9		mg/Kg			09/19/23 14:54	5

Client Sample ID: V-4 (2-2.5')

Lab Sample ID: 880-33291-15

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/14/23 15:52	09/16/23 11:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/14/23 15:52	09/16/23 11:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/14/23 15:52	09/16/23 11:24	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403		mg/Kg		09/14/23 15:52	09/16/23 11:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/14/23 15:52	09/16/23 11:24	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/14/23 15:52	09/16/23 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	320	S1+	70 - 130	09/14/23 15:52	09/16/23 11:24	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/14/23 15:52	09/16/23 11:24	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-4 (2-2.5')

Lab Sample ID: 880-33291-15

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/16/23 11:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			09/16/23 02:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		09/14/23 17:06	09/16/23 02:20	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		09/14/23 17:06	09/16/23 02:20	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		09/14/23 17:06	09/16/23 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				09/14/23 17:06	09/16/23 02:20	1
o-Terphenyl	128		70 - 130				09/14/23 17:06	09/16/23 02:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	977		4.98		mg/Kg			09/19/23 15:00	1

Client Sample ID: V-4 (3-3.5')

Lab Sample ID: 880-33291-16

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 11:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 11:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 11:50	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		09/14/23 15:52	09/16/23 11:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 11:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/23 15:52	09/16/23 11:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	309	S1+	70 - 130				09/14/23 15:52	09/16/23 11:50	1
1,4-Difluorobenzene (Surr)	128		70 - 130				09/14/23 15:52	09/16/23 11:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/16/23 11:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			09/16/23 02:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		09/14/23 17:06	09/16/23 02:42	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		09/14/23 17:06	09/16/23 02:42	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-4 (3-3.5')

Lab Sample ID: 880-33291-16

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		09/14/23 17:06	09/16/23 02:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				09/14/23 17:06	09/16/23 02:42	1
o-Terphenyl	136	S1+	70 - 130				09/14/23 17:06	09/16/23 02:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240		5.04		mg/Kg			09/19/23 15:33	1

Client Sample ID: V-5 (0-6")

Lab Sample ID: 880-33291-17

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/14/23 15:52	09/16/23 12:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/14/23 15:52	09/16/23 12:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/14/23 15:52	09/16/23 12:17	1
m-Xylene & p-Xylene	<0.00396	U *	0.00396		mg/Kg		09/14/23 15:52	09/16/23 12:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/14/23 15:52	09/16/23 12:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/14/23 15:52	09/16/23 12:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	310	S1+	70 - 130				09/14/23 15:52	09/16/23 12:17	1
1,4-Difluorobenzene (Surr)	105		70 - 130				09/14/23 15:52	09/16/23 12:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/16/23 12:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.9		50.4		mg/Kg			09/15/23 18:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		09/15/23 12:04	09/15/23 18:42	1
Diesel Range Organics (Over C10-C28)	98.9		50.4		mg/Kg		09/15/23 12:04	09/15/23 18:42	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		09/15/23 12:04	09/15/23 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				09/15/23 12:04	09/15/23 18:42	1
o-Terphenyl	137	S1+	70 - 130				09/15/23 12:04	09/15/23 18:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3810		24.9		mg/Kg			09/19/23 19:03	5

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Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-5 (1-1.5')

Lab Sample ID: 880-33291-18

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 12:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 12:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 12:43	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		09/14/23 15:52	09/16/23 12:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/23 15:52	09/16/23 12:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/23 15:52	09/16/23 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	344	S1+	70 - 130	09/14/23 15:52	09/16/23 12:43	1
1,4-Difluorobenzene (Surr)	115		70 - 130	09/14/23 15:52	09/16/23 12:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/16/23 12:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/15/23 19:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/15/23 12:04	09/15/23 19:47	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/15/23 12:04	09/15/23 19:47	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/15/23 12:04	09/15/23 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	09/15/23 12:04	09/15/23 19:47	1
o-Terphenyl	130		70 - 130	09/15/23 12:04	09/15/23 19:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		24.8		mg/Kg			09/19/23 19:14	5

Client Sample ID: V-5 (2-2.5')

Lab Sample ID: 880-33291-19

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/14/23 15:52	09/16/23 13:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/14/23 15:52	09/16/23 13:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/14/23 15:52	09/16/23 13:11	1
m-Xylene & p-Xylene	<0.00397	U *	0.00397		mg/Kg		09/14/23 15:52	09/16/23 13:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/14/23 15:52	09/16/23 13:11	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/14/23 15:52	09/16/23 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	373	S1+	70 - 130	09/14/23 15:52	09/16/23 13:11	1
1,4-Difluorobenzene (Surr)	111		70 - 130	09/14/23 15:52	09/16/23 13:11	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-5 (2-2.5')

Lab Sample ID: 880-33291-19

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/16/23 13:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			09/15/23 20:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		09/15/23 12:04	09/15/23 20:09	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		09/15/23 12:04	09/15/23 20:09	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		09/15/23 12:04	09/15/23 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				09/15/23 12:04	09/15/23 20:09	1
o-Terphenyl	134	S1+	70 - 130				09/15/23 12:04	09/15/23 20:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	564		5.03		mg/Kg			09/19/23 19:26	1

Client Sample ID: V-5 (3-3.5')

Lab Sample ID: 880-33291-20

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 13:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 13:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 13:38	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		09/14/23 15:52	09/16/23 13:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 13:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/14/23 15:52	09/16/23 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	308	S1+	70 - 130				09/14/23 15:52	09/16/23 13:38	1
1,4-Difluorobenzene (Surr)	103		70 - 130				09/14/23 15:52	09/16/23 13:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/16/23 13:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			09/15/23 20:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		09/15/23 12:04	09/15/23 20:30	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		09/15/23 12:04	09/15/23 20:30	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-5 (3-3.5')

Lab Sample ID: 880-33291-20

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		09/15/23 12:04	09/15/23 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				09/15/23 12:04	09/15/23 20:30	1
o-Terphenyl	138	S1+	70 - 130				09/15/23 12:04	09/15/23 20:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	639		5.05		mg/Kg			09/19/23 19:37	1

Client Sample ID: V-5 (4-4.5')

Lab Sample ID: 880-33291-21

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198		mg/Kg		09/14/23 16:00	09/16/23 17:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/14/23 16:00	09/16/23 17:39	1
Ethylbenzene	<0.00198	U F1	0.00198		mg/Kg		09/14/23 16:00	09/16/23 17:39	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/14/23 16:00	09/16/23 17:39	1
o-Xylene	<0.00198	U F1	0.00198		mg/Kg		09/14/23 16:00	09/16/23 17:39	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/14/23 16:00	09/16/23 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	327	S1+	70 - 130				09/14/23 16:00	09/16/23 17:39	1
1,4-Difluorobenzene (Surr)	93		70 - 130				09/14/23 16:00	09/16/23 17:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/16/23 17:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/15/23 20:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/15/23 12:04	09/15/23 20:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/15/23 12:04	09/15/23 20:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/15/23 12:04	09/15/23 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				09/15/23 12:04	09/15/23 20:52	1
o-Terphenyl	133	S1+	70 - 130				09/15/23 12:04	09/15/23 20:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		5.01		mg/Kg			09/19/23 19:48	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-5 (5-5.5')

Lab Sample ID: 880-33291-22

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/23 16:00	09/16/23 18:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/23 16:00	09/16/23 18:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/23 16:00	09/16/23 18:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/23 16:00	09/16/23 18:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/23 16:00	09/16/23 18:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/23 16:00	09/16/23 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	341	S1+	70 - 130	09/14/23 16:00	09/16/23 18:05	1
1,4-Difluorobenzene (Surr)	117		70 - 130	09/14/23 16:00	09/16/23 18:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/16/23 18:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/15/23 21:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/15/23 12:04	09/15/23 21:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/15/23 12:04	09/15/23 21:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/15/23 12:04	09/15/23 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	09/15/23 12:04	09/15/23 21:15	1
o-Terphenyl	139	S1+	70 - 130	09/15/23 12:04	09/15/23 21:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		25.1		mg/Kg			09/19/23 20:21	5

Client Sample ID: H-1 (0-6")

Lab Sample ID: 880-33291-23

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 18:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 18:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 18:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/14/23 16:00	09/16/23 18:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 18:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/14/23 16:00	09/16/23 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	324	S1+	70 - 130	09/14/23 16:00	09/16/23 18:32	1
1,4-Difluorobenzene (Surr)	88		70 - 130	09/14/23 16:00	09/16/23 18:32	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: H-1 (0-6")

Lab Sample ID: 880-33291-23

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/16/23 18:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	122		49.6		mg/Kg			09/15/23 21:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/15/23 12:04	09/15/23 21:37	1
Diesel Range Organics (Over C10-C28)	122		49.6		mg/Kg		09/15/23 12:04	09/15/23 21:37	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/15/23 12:04	09/15/23 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				09/15/23 12:04	09/15/23 21:37	1
o-Terphenyl	129		70 - 130				09/15/23 12:04	09/15/23 21:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	337		4.99		mg/Kg			09/19/23 20:33	1

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-33291-24

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/14/23 16:00	09/16/23 18:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/14/23 16:00	09/16/23 18:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/14/23 16:00	09/16/23 18:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/14/23 16:00	09/16/23 18:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/14/23 16:00	09/16/23 18:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/14/23 16:00	09/16/23 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	284	S1+	70 - 130				09/14/23 16:00	09/16/23 18:59	1
1,4-Difluorobenzene (Surr)	85		70 - 130				09/14/23 16:00	09/16/23 18:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/16/23 18:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			09/15/23 21:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		09/15/23 12:04	09/15/23 21:58	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		09/15/23 12:04	09/15/23 21:58	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: H-2 (0-6")
Date Collected: 09/13/23 00:00
Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-24
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		09/15/23 12:04	09/15/23 21:58	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	128		70 - 130				09/15/23 12:04	09/15/23 21:58	1	
o-Terphenyl	136	S1+	70 - 130				09/15/23 12:04	09/15/23 21:58	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	364		4.99		mg/Kg			09/19/23 21:06	1	

Client Sample ID: H-3 (0-6")
Date Collected: 09/13/23 00:00
Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-25
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 19:26	1	
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 19:26	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 19:26	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/14/23 16:00	09/16/23 19:26	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 19:26	1	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/14/23 16:00	09/16/23 19:26	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	267	S1+	70 - 130				09/14/23 16:00	09/16/23 19:26	1	
1,4-Difluorobenzene (Surr)	103		70 - 130				09/14/23 16:00	09/16/23 19:26	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/16/23 19:26	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.4	U	50.4		mg/Kg			09/15/23 22:20	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		09/15/23 12:04	09/15/23 22:20	1	
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		09/15/23 12:04	09/15/23 22:20	1	
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		09/15/23 12:04	09/15/23 22:20	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	135	S1+	70 - 130				09/15/23 12:04	09/15/23 22:20	1	
o-Terphenyl	144	S1+	70 - 130				09/15/23 12:04	09/15/23 22:20	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	392		4.97		mg/Kg			09/19/23 21:17	1	

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Client Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: H-4 (0-6")

Lab Sample ID: 880-33291-26

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 19:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 19:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 19:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/14/23 16:00	09/16/23 19:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 19:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/14/23 16:00	09/16/23 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	363	S1+	70 - 130	09/14/23 16:00	09/16/23 19:52	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/14/23 16:00	09/16/23 19:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/16/23 19:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			09/15/23 22:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		09/15/23 12:04	09/15/23 22:41	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/15/23 12:04	09/15/23 22:41	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/15/23 12:04	09/15/23 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	09/15/23 12:04	09/15/23 22:41	1
o-Terphenyl	136	S1+	70 - 130	09/15/23 12:04	09/15/23 22:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		25.0		mg/Kg			09/19/23 21:28	5

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Surrogate Summary

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB1	DFBZ1		
		(70-130)	(70-130)		
880-33291-1	V-1 (0-6")	200 S1+	103		
880-33291-1 MS	V-1 (0-6")	221 S1+	86		
880-33291-1 MSD	V-1 (0-6")	260 S1+	117		
880-33291-2	V-1 (1-1.5')	226 S1+	110		
880-33291-3	V-1 (2-2.5')	181 S1+	106		
880-33291-4	V-1 (3-3.5')	295 S1+	70		
880-33291-5	V-2 (0-6")	196 S1+	87		
880-33291-6	V-2 (1-1.5')	295 S1+	94		
880-33291-7	V-2 (2-2.5')	290 S1+	107		
880-33291-8	V-2 (3-3.5')	226 S1+	101		
880-33291-10	V-3 (0-6")	255 S1+	74		
880-33291-11	V-3 (1-1.5')	249 S1+	79		
880-33291-12	V-3 (2-2.5')	298 S1+	92		
880-33291-13	V-4 (0-6")	268 S1+	89		
880-33291-14	V-4 (1-1.5')	332 S1+	88		
880-33291-15	V-4 (2-2.5')	320 S1+	81		
880-33291-16	V-4 (3-3.5')	309 S1+	128		
880-33291-17	V-5 (0-6")	310 S1+	105		
880-33291-18	V-5 (1-1.5')	344 S1+	115		
880-33291-19	V-5 (2-2.5')	373 S1+	111		
880-33291-20	V-5 (3-3.5')	308 S1+	103		
880-33291-21	V-5 (4-4.5')	327 S1+	93		
880-33291-21 MS	V-5 (4-4.5')	265 S1+	97		
880-33291-21 MSD	V-5 (4-4.5')	240 S1+	93		
880-33291-22	V-5 (5-5.5')	341 S1+	117		
880-33291-23	H-1 (0-6")	324 S1+	88		
880-33291-24	H-2 (0-6")	284 S1+	85		
880-33291-25	H-3 (0-6")	267 S1+	103		
880-33291-26	H-4 (0-6")	363 S1+	105		
LCS 880-62479/1-A	Lab Control Sample	197 S1+	70		
LCS 880-62481/1-A	Lab Control Sample	235 S1+	84		
LCSD 880-62479/2-A	Lab Control Sample Dup	235 S1+	84		
LCSD 880-62481/2-A	Lab Control Sample Dup	236 S1+	84		
MB 880-62454/5-A	Method Blank	121	94		
MB 880-62479/5-A	Method Blank	134 S1+	119		
MB 880-62481/5-A	Method Blank	191 S1+	106		
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DFBZ = 1,4-Difluorobenzene (Surr)					

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	1CO1	OTPH1		
		(70-130)	(70-130)		
880-33291-1	V-1 (0-6")	149 S1+	130		
880-33291-2	V-1 (1-1.5')	156 S1+	146 S1+		
880-33291-3	V-1 (2-2.5')	151 S1+	142 S1+		

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Surrogate Summary

Client: NT Global

Job ID: 880-33291-1

Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

SDG: Lea Co., NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-33291-4	V-1 (3-3.5')	143 S1+	136 S1+
880-33291-5	V-2 (0-6")	145 S1+	132 S1+
880-33291-6	V-2 (1-1.5')	137 S1+	129
880-33291-7	V-2 (2-2.5')	147 S1+	140 S1+
880-33291-8	V-2 (3-3.5')	155 S1+	143 S1+
880-33291-10	V-3 (0-6")	135 S1+	127
880-33291-11	V-3 (1-1.5')	137 S1+	127
880-33291-12	V-3 (2-2.5')	152 S1+	137 S1+
880-33291-13	V-4 (0-6")	132 S1+	117
880-33291-14	V-4 (1-1.5')	134 S1+	123
880-33291-15	V-4 (2-2.5')	135 S1+	128
880-33291-16	V-4 (3-3.5')	145 S1+	136 S1+
880-33291-17	V-5 (0-6")	128	137 S1+
880-33291-17 MS	V-5 (0-6")	112	110
880-33291-17 MSD	V-5 (0-6")	122	116
880-33291-18	V-5 (1-1.5')	124	130
880-33291-19	V-5 (2-2.5')	131 S1+	134 S1+
880-33291-20	V-5 (3-3.5')	132 S1+	138 S1+
880-33291-21	V-5 (4-4.5')	125	133 S1+
880-33291-22	V-5 (5-5.5')	131 S1+	139 S1+
880-33291-23	H-1 (0-6")	123	129
880-33291-24	H-2 (0-6")	128	136 S1+
880-33291-25	H-3 (0-6")	135 S1+	144 S1+
880-33291-26	H-4 (0-6")	132 S1+	136 S1+
890-5251-A-12-C MS	Matrix Spike	140 S1+	121
890-5251-A-12-D MSD	Matrix Spike Duplicate	140 S1+	119
LCS 880-62493/2-A	Lab Control Sample	107	136 S1+
LCS 880-62583/2-A	Lab Control Sample	96	106
LCSD 880-62493/3-A	Lab Control Sample Dup	94	97
LCSD 880-62583/3-A	Lab Control Sample Dup	87	97
MB 880-62493/1-A	Method Blank	146 S1+	141 S1+
MB 880-62583/1-A	Method Blank	121	128

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-62454/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 62513							Prep Batch: 62454		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 13:14	09/15/23 13:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 13:14	09/15/23 13:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 13:14	09/15/23 13:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/14/23 13:14	09/15/23 13:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 13:14	09/15/23 13:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/14/23 13:14	09/15/23 13:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				09/14/23 13:14	09/15/23 13:54	1
1,4-Difluorobenzene (Surr)	94		70 - 130				09/14/23 13:14	09/15/23 13:54	1

Lab Sample ID: MB 880-62479/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 62513							Prep Batch: 62479		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 03:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 03:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 03:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/14/23 15:52	09/16/23 03:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 15:52	09/16/23 03:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/14/23 15:52	09/16/23 03:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				09/14/23 15:52	09/16/23 03:27	1
1,4-Difluorobenzene (Surr)	119		70 - 130				09/14/23 15:52	09/16/23 03:27	1

Lab Sample ID: LCS 880-62479/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 62513							Prep Batch: 62479		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.09938		mg/Kg		99	70 - 130		
Toluene	0.100	0.1102		mg/Kg		110	70 - 130		
Ethylbenzene	0.100	0.1147		mg/Kg		115	70 - 130		
m-Xylene & p-Xylene	0.200	0.2274		mg/Kg		114	70 - 130		
o-Xylene	0.100	0.1165		mg/Kg		116	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130						
1,4-Difluorobenzene (Surr)	70		70 - 130						

Lab Sample ID: LCSD 880-62479/2-A							Client Sample ID: Lab Control Sample Dup				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 62513							Prep Batch: 62479				
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits		
Benzene	0.100	0.1209		mg/Kg		121	70 - 130	20	35		

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QC Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-62479/2-A

Matrix: Solid

Analysis Batch: 62513

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62479

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.1287		mg/Kg		129	70 - 130		15	35
Ethylbenzene	0.100	0.1272		mg/Kg		127	70 - 130		10	35
m-Xylene & p-Xylene	0.200	0.2617	*+	mg/Kg		131	70 - 130		14	35
o-Xylene	0.100	0.1241		mg/Kg		124	70 - 130		6	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	235	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 880-33291-1 MS

Matrix: Solid

Analysis Batch: 62513

Client Sample ID: V-1 (0-6")

Prep Type: Total/NA

Prep Batch: 62479

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00201	U	0.0998	0.1075		mg/Kg		108	70 - 130	
Toluene	<0.00201	U	0.0998	0.08926		mg/Kg		89	70 - 130	
Ethylbenzene	<0.00201	U	0.0998	0.08787		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	<0.00402	U *	0.200	0.1851		mg/Kg		93	70 - 130	
o-Xylene	<0.00201	U	0.0998	0.09370		mg/Kg		94	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	221	S1+	70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-33291-1 MSD

Matrix: Solid

Analysis Batch: 62513

Client Sample ID: V-1 (0-6")

Prep Type: Total/NA

Prep Batch: 62479

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00201	U	0.0996	0.1141		mg/Kg		115	70 - 130		6	35
Toluene	<0.00201	U	0.0996	0.09536		mg/Kg		96	70 - 130		7	35
Ethylbenzene	<0.00201	U	0.0996	0.07487		mg/Kg		75	70 - 130		16	35
m-Xylene & p-Xylene	<0.00402	U *	0.199	0.1778		mg/Kg		89	70 - 130		4	35
o-Xylene	<0.00201	U	0.0996	0.09484		mg/Kg		95	70 - 130		1	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	260	S1+	70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: MB 880-62481/5-A

Matrix: Solid

Analysis Batch: 62513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62481

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 17:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 17:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 17:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/14/23 16:00	09/16/23 17:12	1

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QC Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-62481/5-A

Matrix: Solid

Analysis Batch: 62513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/23 16:00	09/16/23 17:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/14/23 16:00	09/16/23 17:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	191	S1+	70 - 130	09/14/23 16:00	09/16/23 17:12	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/14/23 16:00	09/16/23 17:12	1

Lab Sample ID: LCS 880-62481/1-A

Matrix: Solid

Analysis Batch: 62513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1085		mg/Kg		109	70 - 130
Toluene	0.100	0.1102		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1107		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2171		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1144		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	235	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-62481/2-A

Matrix: Solid

Analysis Batch: 62513

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62481

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1148		mg/Kg		115	70 - 130	6	35
Toluene	0.100	0.1176		mg/Kg		118	70 - 130	6	35
Ethylbenzene	0.100	0.1190		mg/Kg		119	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2308		mg/Kg		115	70 - 130	6	35
o-Xylene	0.100	0.1227		mg/Kg		123	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	236	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 880-33291-21 MS

Matrix: Solid

Analysis Batch: 62513

Client Sample ID: V-5 (4-4.5')

Prep Type: Total/NA

Prep Batch: 62481

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U F1	0.100	0.1489	F1	mg/Kg		149	70 - 130
Toluene	<0.00198	U	0.100	0.1263		mg/Kg		126	70 - 130
Ethylbenzene	<0.00198	U F1	0.100	0.1306	F1	mg/Kg		131	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2542		mg/Kg		127	70 - 130
o-Xylene	<0.00198	U F1	0.100	0.1326	F1	mg/Kg		133	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-33291-21 MS
Matrix: Solid
Analysis Batch: 62513

Client Sample ID: V-5 (4-4.5')
Prep Type: Total/NA
Prep Batch: 62481

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	265	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-33291-21 MSD
Matrix: Solid
Analysis Batch: 62513

Client Sample ID: V-5 (4-4.5')
Prep Type: Total/NA
Prep Batch: 62481

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0998	0.1506	F1	mg/Kg		151	70 - 130	1	35
Toluene	<0.00198	U	0.0998	0.1259		mg/Kg		126	70 - 130	0	35
Ethylbenzene	<0.00198	U F1	0.0998	0.1276		mg/Kg		128	70 - 130	2	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2504		mg/Kg		125	70 - 130	2	35
o-Xylene	<0.00198	U F1	0.0998	0.1305	F1	mg/Kg		131	70 - 130	2	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	240	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	93		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-62493/1-A
Matrix: Solid
Analysis Batch: 62509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/14/23 17:06	09/15/23 17:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/14/23 17:06	09/15/23 17:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/14/23 17:06	09/15/23 17:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				09/14/23 17:06	09/15/23 17:38	1
o-Terphenyl	141	S1+	70 - 130				09/14/23 17:06	09/15/23 17:38	1

Lab Sample ID: LCS 880-62493/2-A
Matrix: Solid
Analysis Batch: 62509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	995.9		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	960.3		mg/Kg		96	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
o-Terphenyl	136	S1+	70 - 130						

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QC Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-62493/3-A

Matrix: Solid

Analysis Batch: 62509

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62493

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	994.5		mg/Kg		99	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	937.5		mg/Kg		94	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	97		70 - 130						

Lab Sample ID: 890-5251-A-12-C MS

Matrix: Solid

Analysis Batch: 62509

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 62493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1010	1006		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1010	1465	F1	mg/Kg		146	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	140	S1+	70 - 130								
o-Terphenyl	121		70 - 130								

Lab Sample ID: 890-5251-A-12-D MSD

Matrix: Solid

Analysis Batch: 62509

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62493

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1010	1014		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1010	1458	F1	mg/Kg		145	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	140	S1+	70 - 130								
o-Terphenyl	119		70 - 130								

Lab Sample ID: MB 880-62583/1-A

Matrix: Solid

Analysis Batch: 62511

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/15/23 12:04	09/15/23 17:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/15/23 12:04	09/15/23 17:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/15/23 12:04	09/15/23 17:38	1

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QC Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-62583/1-A

Matrix: Solid

Analysis Batch: 62511

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62583

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	121		70 - 130	09/15/23 12:04	09/15/23 17:38	1				
o-Terphenyl	128		70 - 130	09/15/23 12:04	09/15/23 17:38	1				

Lab Sample ID: LCS 880-62583/2-A

Matrix: Solid

Analysis Batch: 62511

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62583

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1109		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1003		mg/Kg		100	70 - 130		
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	106		70 - 130								

Lab Sample ID: LCSD 880-62583/3-A

Matrix: Solid

Analysis Batch: 62511

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62583

			Spike	LCSD	LCSD				%Rec			RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	990.9		mg/Kg		99	70 - 130	11	20	
Diesel Range Organics (Over C10-C28)			1000	847.5		mg/Kg		85	70 - 130	17	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	87		70 - 130									
o-Terphenyl	97		70 - 130									

Lab Sample ID: 880-33291-17 MS

Matrix: Solid

Analysis Batch: 62511

Client Sample ID: V-5 (0-6")

Prep Type: Total/NA

Prep Batch: 62583

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	993	1131		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	98.9		993	853.5		mg/Kg		76	70 - 130		
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	110		70 - 130								

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QC Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-33291-17 MSD

Matrix: Solid

Analysis Batch: 62511

Client Sample ID: V-5 (0-6")

Prep Type: Total/NA

Prep Batch: 62583

[illegible]

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-62557/1-A

Matrix: Solid

Analysis Batch: 62821

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			09/18/23 22:57	1

Lab Sample ID: LCS 880-62557/2-A

Matrix: Solid

Analysis Batch: 62821

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.1		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-62557/3-A

Matrix: Solid

Analysis Batch: 62821

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limits
Chloride	250	249.4		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-33291-7 MS

Matrix: Solid

Analysis Batch: 62821

Client Sample ID: V-2 (2-2.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	637	F1	250	851.4	F1	mg/Kg		86	90 - 110

Lab Sample ID: 880-33291-7 MSD

Matrix: Solid

Analysis Batch: 62821

Client Sample ID: V-2 (2-2.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Chloride	637	F1	250	853.2	F1	mg/Kg	-	86	90 - 110	0	20

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QC Sample Results

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-62558/1-A Matrix: Solid Analysis Batch: 62851										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			09/19/23 16:38	1		

Lab Sample ID: LCS 880-62558/2-A Matrix: Solid Analysis Batch: 62851										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.1		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-62558/3-A Matrix: Solid Analysis Batch: 62851										Client Sample ID: Lab Control Sample Dup Prep Type: Soluble	
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	249.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-33291-21 MS Matrix: Solid Analysis Batch: 62851										Client Sample ID: V-5 (4-4.5') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1050		251	1239	4	mg/Kg		76	90 - 110		

Lab Sample ID: 880-33291-21 MSD Matrix: Solid Analysis Batch: 62851										Client Sample ID: V-5 (4-4.5') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1050		251	1246	4	mg/Kg		79	90 - 110	1	20

QC Association Summary

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

GC VOA

Prep Batch: 62454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-62454/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 62479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-1	V-1 (0-6")	Total/NA	Solid	5035	
880-33291-2	V-1 (1-1.5')	Total/NA	Solid	5035	
880-33291-3	V-1 (2-2.5')	Total/NA	Solid	5035	
880-33291-4	V-1 (3-3.5')	Total/NA	Solid	5035	
880-33291-5	V-2 (0-6")	Total/NA	Solid	5035	
880-33291-6	V-2 (1-1.5')	Total/NA	Solid	5035	
880-33291-7	V-2 (2-2.5')	Total/NA	Solid	5035	
880-33291-8	V-2 (3-3.5')	Total/NA	Solid	5035	
880-33291-10	V-3 (0-6")	Total/NA	Solid	5035	
880-33291-11	V-3 (1-1.5')	Total/NA	Solid	5035	
880-33291-12	V-3 (2-2.5')	Total/NA	Solid	5035	
880-33291-13	V-4 (0-6")	Total/NA	Solid	5035	
880-33291-14	V-4 (1-1.5')	Total/NA	Solid	5035	
880-33291-15	V-4 (2-2.5')	Total/NA	Solid	5035	
880-33291-16	V-4 (3-3.5')	Total/NA	Solid	5035	
880-33291-17	V-5 (0-6")	Total/NA	Solid	5035	
880-33291-18	V-5 (1-1.5')	Total/NA	Solid	5035	
880-33291-19	V-5 (2-2.5')	Total/NA	Solid	5035	
880-33291-20	V-5 (3-3.5')	Total/NA	Solid	5035	
MB 880-62479/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62479/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62479/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33291-1 MS	V-1 (0-6")	Total/NA	Solid	5035	
880-33291-1 MSD	V-1 (0-6")	Total/NA	Solid	5035	

Prep Batch: 62481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-21	V-5 (4-4.5')	Total/NA	Solid	5035	
880-33291-22	V-5 (5-5.5')	Total/NA	Solid	5035	
880-33291-23	H-1 (0-6")	Total/NA	Solid	5035	
880-33291-24	H-2 (0-6")	Total/NA	Solid	5035	
880-33291-25	H-3 (0-6")	Total/NA	Solid	5035	
880-33291-26	H-4 (0-6")	Total/NA	Solid	5035	
MB 880-62481/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62481/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62481/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33291-21 MS	V-5 (4-4.5')	Total/NA	Solid	5035	
880-33291-21 MSD	V-5 (4-4.5')	Total/NA	Solid	5035	

Analysis Batch: 62513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-1	V-1 (0-6")	Total/NA	Solid	8021B	62479
880-33291-2	V-1 (1-1.5')	Total/NA	Solid	8021B	62479
880-33291-3	V-1 (2-2.5')	Total/NA	Solid	8021B	62479
880-33291-4	V-1 (3-3.5')	Total/NA	Solid	8021B	62479
880-33291-5	V-2 (0-6")	Total/NA	Solid	8021B	62479
880-33291-6	V-2 (1-1.5')	Total/NA	Solid	8021B	62479

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QC Association Summary

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

GC VOA (Continued)

Analysis Batch: 62513 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-7	V-2 (2-2.5')	Total/NA	Solid	8021B	62479
880-33291-8	V-2 (3-3.5')	Total/NA	Solid	8021B	62479
880-33291-10	V-3 (0-6")	Total/NA	Solid	8021B	62479
880-33291-11	V-3 (1-1.5')	Total/NA	Solid	8021B	62479
880-33291-12	V-3 (2-2.5')	Total/NA	Solid	8021B	62479
880-33291-13	V-4 (0-6")	Total/NA	Solid	8021B	62479
880-33291-14	V-4 (1-1.5')	Total/NA	Solid	8021B	62479
880-33291-15	V-4 (2-2.5')	Total/NA	Solid	8021B	62479
880-33291-16	V-4 (3-3.5')	Total/NA	Solid	8021B	62479
880-33291-17	V-5 (0-6")	Total/NA	Solid	8021B	62479
880-33291-18	V-5 (1-1.5')	Total/NA	Solid	8021B	62479
880-33291-19	V-5 (2-2.5')	Total/NA	Solid	8021B	62479
880-33291-20	V-5 (3-3.5')	Total/NA	Solid	8021B	62479
880-33291-21	V-5 (4-4.5')	Total/NA	Solid	8021B	62481
880-33291-22	V-5 (5-5.5')	Total/NA	Solid	8021B	62481
880-33291-23	H-1 (0-6")	Total/NA	Solid	8021B	62481
880-33291-24	H-2 (0-6")	Total/NA	Solid	8021B	62481
880-33291-25	H-3 (0-6")	Total/NA	Solid	8021B	62481
880-33291-26	H-4 (0-6")	Total/NA	Solid	8021B	62481
MB 880-62454/5-A	Method Blank	Total/NA	Solid	8021B	62454
MB 880-62479/5-A	Method Blank	Total/NA	Solid	8021B	62479
MB 880-62481/5-A	Method Blank	Total/NA	Solid	8021B	62481
LCS 880-62479/1-A	Lab Control Sample	Total/NA	Solid	8021B	62479
LCS 880-62481/1-A	Lab Control Sample	Total/NA	Solid	8021B	62481
LCSD 880-62479/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62479
LCSD 880-62481/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62481
880-33291-1 MS	V-1 (0-6")	Total/NA	Solid	8021B	62479
880-33291-1 MSD	V-1 (0-6")	Total/NA	Solid	8021B	62479
880-33291-21 MS	V-5 (4-4.5')	Total/NA	Solid	8021B	62481
880-33291-21 MSD	V-5 (4-4.5')	Total/NA	Solid	8021B	62481

Analysis Batch: 62747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-1	V-1 (0-6")	Total/NA	Solid	Total BTEX	
880-33291-2	V-1 (1-1.5')	Total/NA	Solid	Total BTEX	
880-33291-3	V-1 (2-2.5')	Total/NA	Solid	Total BTEX	
880-33291-4	V-1 (3-3.5')	Total/NA	Solid	Total BTEX	
880-33291-5	V-2 (0-6")	Total/NA	Solid	Total BTEX	
880-33291-6	V-2 (1-1.5')	Total/NA	Solid	Total BTEX	
880-33291-7	V-2 (2-2.5')	Total/NA	Solid	Total BTEX	
880-33291-8	V-2 (3-3.5')	Total/NA	Solid	Total BTEX	
880-33291-10	V-3 (0-6")	Total/NA	Solid	Total BTEX	
880-33291-11	V-3 (1-1.5')	Total/NA	Solid	Total BTEX	
880-33291-12	V-3 (2-2.5')	Total/NA	Solid	Total BTEX	
880-33291-13	V-4 (0-6")	Total/NA	Solid	Total BTEX	
880-33291-14	V-4 (1-1.5')	Total/NA	Solid	Total BTEX	
880-33291-15	V-4 (2-2.5')	Total/NA	Solid	Total BTEX	
880-33291-16	V-4 (3-3.5')	Total/NA	Solid	Total BTEX	
880-33291-17	V-5 (0-6")	Total/NA	Solid	Total BTEX	
880-33291-18	V-5 (1-1.5')	Total/NA	Solid	Total BTEX	
880-33291-19	V-5 (2-2.5')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

GC VOA (Continued)

Analysis Batch: 62747 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-20	V-5 (3-3.5')	Total/NA	Solid	Total BTEX	
880-33291-21	V-5 (4-4.5')	Total/NA	Solid	Total BTEX	
880-33291-22	V-5 (5-5.5')	Total/NA	Solid	Total BTEX	
880-33291-23	H-1 (0-6")	Total/NA	Solid	Total BTEX	
880-33291-24	H-2 (0-6")	Total/NA	Solid	Total BTEX	
880-33291-25	H-3 (0-6")	Total/NA	Solid	Total BTEX	
880-33291-26	H-4 (0-6")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 62493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-1	V-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-33291-2	V-1 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-33291-3	V-1 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-33291-4	V-1 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-33291-5	V-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-33291-6	V-2 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-33291-7	V-2 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-33291-8	V-2 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-33291-10	V-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-33291-11	V-3 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-33291-12	V-3 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-33291-13	V-4 (0-6")	Total/NA	Solid	8015NM Prep	
880-33291-14	V-4 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-33291-15	V-4 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-33291-16	V-4 (3-3.5')	Total/NA	Solid	8015NM Prep	
MB 880-62493/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62493/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62493/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5251-A-12-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5251-A-12-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 62509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-1	V-1 (0-6")	Total/NA	Solid	8015B NM	62493
880-33291-2	V-1 (1-1.5')	Total/NA	Solid	8015B NM	62493
880-33291-3	V-1 (2-2.5')	Total/NA	Solid	8015B NM	62493
880-33291-4	V-1 (3-3.5')	Total/NA	Solid	8015B NM	62493
880-33291-5	V-2 (0-6")	Total/NA	Solid	8015B NM	62493
880-33291-6	V-2 (1-1.5')	Total/NA	Solid	8015B NM	62493
880-33291-7	V-2 (2-2.5')	Total/NA	Solid	8015B NM	62493
880-33291-8	V-2 (3-3.5')	Total/NA	Solid	8015B NM	62493
880-33291-10	V-3 (0-6")	Total/NA	Solid	8015B NM	62493
880-33291-11	V-3 (1-1.5')	Total/NA	Solid	8015B NM	62493
880-33291-12	V-3 (2-2.5')	Total/NA	Solid	8015B NM	62493
880-33291-13	V-4 (0-6")	Total/NA	Solid	8015B NM	62493
880-33291-14	V-4 (1-1.5')	Total/NA	Solid	8015B NM	62493
880-33291-15	V-4 (2-2.5')	Total/NA	Solid	8015B NM	62493
880-33291-16	V-4 (3-3.5')	Total/NA	Solid	8015B NM	62493
MB 880-62493/1-A	Method Blank	Total/NA	Solid	8015B NM	62493

Eurofins Midland

QC Association Summary

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

GC Semi VOA (Continued)

Analysis Batch: 62509 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-62493/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62493
LCSD 880-62493/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62493
890-5251-A-12-C MS	Matrix Spike	Total/NA	Solid	8015B NM	62493
890-5251-A-12-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	62493

Analysis Batch: 62511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-17	V-5 (0-6")	Total/NA	Solid	8015B NM	62583
880-33291-18	V-5 (1-1.5')	Total/NA	Solid	8015B NM	62583
880-33291-19	V-5 (2-2.5')	Total/NA	Solid	8015B NM	62583
880-33291-20	V-5 (3-3.5')	Total/NA	Solid	8015B NM	62583
880-33291-21	V-5 (4-4.5')	Total/NA	Solid	8015B NM	62583
880-33291-22	V-5 (5-5.5')	Total/NA	Solid	8015B NM	62583
880-33291-23	H-1 (0-6")	Total/NA	Solid	8015B NM	62583
880-33291-24	H-2 (0-6")	Total/NA	Solid	8015B NM	62583
880-33291-25	H-3 (0-6")	Total/NA	Solid	8015B NM	62583
880-33291-26	H-4 (0-6")	Total/NA	Solid	8015B NM	62583
MB 880-62583/1-A	Method Blank	Total/NA	Solid	8015B NM	62583
LCS 880-62583/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62583
LCSD 880-62583/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62583
880-33291-17 MS	V-5 (0-6")	Total/NA	Solid	8015B NM	62583
880-33291-17 MSD	V-5 (0-6")	Total/NA	Solid	8015B NM	62583

Prep Batch: 62583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-17	V-5 (0-6")	Total/NA	Solid	8015NM Prep	
880-33291-18	V-5 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-33291-19	V-5 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-33291-20	V-5 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-33291-21	V-5 (4-4.5')	Total/NA	Solid	8015NM Prep	
880-33291-22	V-5 (5-5.5')	Total/NA	Solid	8015NM Prep	
880-33291-23	H-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-33291-24	H-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-33291-25	H-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-33291-26	H-4 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-62583/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62583/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62583/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33291-17 MS	V-5 (0-6")	Total/NA	Solid	8015NM Prep	
880-33291-17 MSD	V-5 (0-6")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 62711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-1	V-1 (0-6")	Total/NA	Solid	8015 NM	
880-33291-2	V-1 (1-1.5')	Total/NA	Solid	8015 NM	
880-33291-3	V-1 (2-2.5')	Total/NA	Solid	8015 NM	
880-33291-4	V-1 (3-3.5')	Total/NA	Solid	8015 NM	
880-33291-5	V-2 (0-6")	Total/NA	Solid	8015 NM	
880-33291-6	V-2 (1-1.5')	Total/NA	Solid	8015 NM	
880-33291-7	V-2 (2-2.5')	Total/NA	Solid	8015 NM	
880-33291-8	V-2 (3-3.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

GC Semi VOA (Continued)

Analysis Batch: 62711 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-10	V-3 (0-6")	Total/NA	Solid	8015 NM	
880-33291-11	V-3 (1-1.5')	Total/NA	Solid	8015 NM	
880-33291-12	V-3 (2-2.5')	Total/NA	Solid	8015 NM	
880-33291-13	V-4 (0-6")	Total/NA	Solid	8015 NM	
880-33291-14	V-4 (1-1.5')	Total/NA	Solid	8015 NM	
880-33291-15	V-4 (2-2.5')	Total/NA	Solid	8015 NM	
880-33291-16	V-4 (3-3.5')	Total/NA	Solid	8015 NM	
880-33291-17	V-5 (0-6")	Total/NA	Solid	8015 NM	
880-33291-18	V-5 (1-1.5')	Total/NA	Solid	8015 NM	
880-33291-19	V-5 (2-2.5')	Total/NA	Solid	8015 NM	
880-33291-20	V-5 (3-3.5')	Total/NA	Solid	8015 NM	
880-33291-21	V-5 (4-4.5')	Total/NA	Solid	8015 NM	
880-33291-22	V-5 (5-5.5')	Total/NA	Solid	8015 NM	
880-33291-23	H-1 (0-6")	Total/NA	Solid	8015 NM	
880-33291-24	H-2 (0-6")	Total/NA	Solid	8015 NM	
880-33291-25	H-3 (0-6")	Total/NA	Solid	8015 NM	
880-33291-26	H-4 (0-6")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 62557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-1	V-1 (0-6")	Soluble	Solid	DI Leach	
880-33291-2	V-1 (1-1.5')	Soluble	Solid	DI Leach	
880-33291-3	V-1 (2-2.5')	Soluble	Solid	DI Leach	
880-33291-4	V-1 (3-3.5')	Soluble	Solid	DI Leach	
880-33291-5	V-2 (0-6")	Soluble	Solid	DI Leach	
880-33291-6	V-2 (1-1.5')	Soluble	Solid	DI Leach	
880-33291-7	V-2 (2-2.5')	Soluble	Solid	DI Leach	
880-33291-8	V-2 (3-3.5')	Soluble	Solid	DI Leach	
880-33291-10	V-3 (0-6")	Soluble	Solid	DI Leach	
880-33291-11	V-3 (1-1.5')	Soluble	Solid	DI Leach	
880-33291-12	V-3 (2-2.5')	Soluble	Solid	DI Leach	
880-33291-13	V-4 (0-6")	Soluble	Solid	DI Leach	
880-33291-14	V-4 (1-1.5')	Soluble	Solid	DI Leach	
880-33291-15	V-4 (2-2.5')	Soluble	Solid	DI Leach	
880-33291-16	V-4 (3-3.5')	Soluble	Solid	DI Leach	
MB 880-62557/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62557/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62557/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33291-7 MS	V-2 (2-2.5')	Soluble	Solid	DI Leach	
880-33291-7 MSD	V-2 (2-2.5')	Soluble	Solid	DI Leach	

Leach Batch: 62558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-17	V-5 (0-6")	Soluble	Solid	DI Leach	
880-33291-18	V-5 (1-1.5')	Soluble	Solid	DI Leach	
880-33291-19	V-5 (2-2.5')	Soluble	Solid	DI Leach	
880-33291-20	V-5 (3-3.5')	Soluble	Solid	DI Leach	
880-33291-21	V-5 (4-4.5')	Soluble	Solid	DI Leach	
880-33291-22	V-5 (5-5.5')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

HPLC/IC (Continued)

Leach Batch: 62558 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-23	H-1 (0-6")	Soluble	Solid	DI Leach	
880-33291-24	H-2 (0-6")	Soluble	Solid	DI Leach	
880-33291-25	H-3 (0-6")	Soluble	Solid	DI Leach	
880-33291-26	H-4 (0-6")	Soluble	Solid	DI Leach	
MB 880-62558/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62558/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62558/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33291-21 MS	V-5 (4-4.5')	Soluble	Solid	DI Leach	
880-33291-21 MSD	V-5 (4-4.5')	Soluble	Solid	DI Leach	

Analysis Batch: 62821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-1	V-1 (0-6")	Soluble	Solid	300.0	62557
880-33291-2	V-1 (1-1.5')	Soluble	Solid	300.0	62557
880-33291-3	V-1 (2-2.5')	Soluble	Solid	300.0	62557
880-33291-4	V-1 (3-3.5')	Soluble	Solid	300.0	62557
880-33291-5	V-2 (0-6")	Soluble	Solid	300.0	62557
880-33291-6	V-2 (1-1.5')	Soluble	Solid	300.0	62557
880-33291-7	V-2 (2-2.5')	Soluble	Solid	300.0	62557
880-33291-8	V-2 (3-3.5')	Soluble	Solid	300.0	62557
880-33291-10	V-3 (0-6")	Soluble	Solid	300.0	62557
880-33291-11	V-3 (1-1.5')	Soluble	Solid	300.0	62557
880-33291-12	V-3 (2-2.5')	Soluble	Solid	300.0	62557
880-33291-13	V-4 (0-6")	Soluble	Solid	300.0	62557
880-33291-14	V-4 (1-1.5')	Soluble	Solid	300.0	62557
880-33291-15	V-4 (2-2.5')	Soluble	Solid	300.0	62557
880-33291-16	V-4 (3-3.5')	Soluble	Solid	300.0	62557
MB 880-62557/1-A	Method Blank	Soluble	Solid	300.0	62557
LCS 880-62557/2-A	Lab Control Sample	Soluble	Solid	300.0	62557
LCSD 880-62557/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62557
880-33291-7 MS	V-2 (2-2.5')	Soluble	Solid	300.0	62557
880-33291-7 MSD	V-2 (2-2.5')	Soluble	Solid	300.0	62557

Analysis Batch: 62851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33291-17	V-5 (0-6")	Soluble	Solid	300.0	62558
880-33291-18	V-5 (1-1.5')	Soluble	Solid	300.0	62558
880-33291-19	V-5 (2-2.5')	Soluble	Solid	300.0	62558
880-33291-20	V-5 (3-3.5')	Soluble	Solid	300.0	62558
880-33291-21	V-5 (4-4.5')	Soluble	Solid	300.0	62558
880-33291-22	V-5 (5-5.5')	Soluble	Solid	300.0	62558
880-33291-23	H-1 (0-6")	Soluble	Solid	300.0	62558
880-33291-24	H-2 (0-6")	Soluble	Solid	300.0	62558
880-33291-25	H-3 (0-6")	Soluble	Solid	300.0	62558
880-33291-26	H-4 (0-6")	Soluble	Solid	300.0	62558
MB 880-62558/1-A	Method Blank	Soluble	Solid	300.0	62558
LCS 880-62558/2-A	Lab Control Sample	Soluble	Solid	300.0	62558
LCSD 880-62558/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62558
880-33291-21 MS	V-5 (4-4.5')	Soluble	Solid	300.0	62558
880-33291-21 MSD	V-5 (4-4.5')	Soluble	Solid	300.0	62558

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-1 (0-6")

Lab Sample ID: 880-33291-1

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 03:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 03:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 21:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/15/23 21:15	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	62821	09/18/23 23:57	CH	EET MID

Client Sample ID: V-1 (1-1.5')

Lab Sample ID: 880-33291-2

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 04:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 04:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 21:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/15/23 21:37	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	62821	09/19/23 00:17	CH	EET MID

Client Sample ID: V-1 (2-2.5')

Lab Sample ID: 880-33291-3

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 04:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 04:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 21:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/15/23 21:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62821	09/19/23 00:24	CH	EET MID

Client Sample ID: V-1 (3-3.5')

Lab Sample ID: 880-33291-4

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 05:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 05:11	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-1 (3-3.5')
Date Collected: 09/13/23 00:00
Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			62711	09/15/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/15/23 22:20	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62821	09/19/23 00:30	CH	EET MID

Client Sample ID: V-2 (0-6")
Date Collected: 09/13/23 00:00
Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 05:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 05:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 22:41	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/15/23 22:41	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62821	09/19/23 00:37	CH	EET MID

Client Sample ID: V-2 (1-1.5')
Date Collected: 09/13/23 00:00
Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 06:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 06:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 23:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/15/23 23:25	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62821	09/19/23 00:43	CH	EET MID

Client Sample ID: V-2 (2-2.5')
Date Collected: 09/13/23 00:00
Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 06:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 06:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 23:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/15/23 23:47	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-2 (2-2.5')

Lab Sample ID: 880-33291-7

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62821	09/19/23 00:50	CH	EET MID

Client Sample ID: V-2 (3-3.5')

Lab Sample ID: 880-33291-8

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 06:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 06:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/16/23 00:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/16/23 00:09	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62821	09/19/23 01:10	CH	EET MID

Client Sample ID: V-3 (0-6")

Lab Sample ID: 880-33291-10

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 07:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 07:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/16/23 00:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/16/23 00:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62821	09/19/23 01:17	CH	EET MID

Client Sample ID: V-3 (1-1.5')

Lab Sample ID: 880-33291-11

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 09:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/16/23 00:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/16/23 00:52	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62821	09/19/23 14:34	CH	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-3 (2-2.5')

Date Collected: 09/13/23 00:00

Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 10:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 10:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/16/23 01:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/16/23 01:14	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62821	09/19/23 14:40	CH	EET MID

Client Sample ID: V-4 (0-6")

Date Collected: 09/13/23 00:00

Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 10:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 10:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/16/23 01:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/16/23 01:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	62821	09/19/23 14:47	CH	EET MID

Client Sample ID: V-4 (1-1.5')

Date Collected: 09/13/23 00:00

Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 10:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 10:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/16/23 01:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/16/23 01:58	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	62821	09/19/23 14:54	CH	EET MID

Client Sample ID: V-4 (2-2.5')

Date Collected: 09/13/23 00:00

Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 11:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 11:24	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-4 (2-2.5')

Lab Sample ID: 880-33291-15

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			62711	09/16/23 02:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/16/23 02:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62821	09/19/23 15:00	CH	EET MID

Client Sample ID: V-4 (3-3.5')

Lab Sample ID: 880-33291-16

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 11:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 11:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/16/23 02:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	62493	09/14/23 17:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62509	09/16/23 02:42	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62557	09/15/23 11:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62821	09/19/23 15:33	CH	EET MID

Client Sample ID: V-5 (0-6")

Lab Sample ID: 880-33291-17

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 12:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 18:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62583	09/15/23 12:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62511	09/15/23 18:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62558	09/15/23 11:05	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	62851	09/19/23 19:03	CH	EET MID

Client Sample ID: V-5 (1-1.5')

Lab Sample ID: 880-33291-18

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 12:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 12:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 19:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62583	09/15/23 12:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62511	09/15/23 19:47	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-5 (1-1.5')

Lab Sample ID: 880-33291-18

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	62558	09/15/23 11:05	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	62851	09/19/23 19:14	CH	EET MID

Client Sample ID: V-5 (2-2.5')

Lab Sample ID: 880-33291-19

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 13:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 20:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	62583	09/15/23 12:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62511	09/15/23 20:09	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	62558	09/15/23 11:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62851	09/19/23 19:26	CH	EET MID

Client Sample ID: V-5 (3-3.5')

Lab Sample ID: 880-33291-20

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	62479	09/14/23 15:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 13:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 20:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	62583	09/15/23 12:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62511	09/15/23 20:30	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	62558	09/15/23 11:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62851	09/19/23 19:37	CH	EET MID

Client Sample ID: V-5 (4-4.5')

Lab Sample ID: 880-33291-21

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	62481	09/14/23 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 17:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 17:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 20:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	62583	09/15/23 12:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62511	09/15/23 20:52	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	62558	09/15/23 11:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62851	09/19/23 19:48	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: V-5 (5-5.5')

Lab Sample ID: 880-33291-22

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	62481	09/14/23 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 18:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 21:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	62583	09/15/23 12:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62511	09/15/23 21:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62558	09/15/23 11:05	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	62851	09/19/23 20:21	CH	EET MID

Client Sample ID: H-1 (0-6")

Lab Sample ID: 880-33291-23

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	62481	09/14/23 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 18:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 21:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62583	09/15/23 12:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62511	09/15/23 21:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62558	09/15/23 11:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62851	09/19/23 20:33	CH	EET MID

Client Sample ID: H-2 (0-6")

Lab Sample ID: 880-33291-24

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	62481	09/14/23 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 18:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 18:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 21:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	62583	09/15/23 12:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62511	09/15/23 21:58	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62558	09/15/23 11:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62851	09/19/23 21:06	CH	EET MID

Client Sample ID: H-3 (0-6")

Lab Sample ID: 880-33291-25

Date Collected: 09/13/23 00:00

Matrix: Solid

Date Received: 09/14/23 14:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	62481	09/14/23 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 19:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 19:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Client Sample ID: H-3 (0-6")
Date Collected: 09/13/23 00:00
Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			62711	09/15/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62583	09/15/23 12:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62511	09/15/23 22:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62558	09/15/23 11:05	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62851	09/19/23 21:17	CH	EET MID

Client Sample ID: H-4 (0-6")
Date Collected: 09/13/23 00:00
Date Received: 09/14/23 14:32

Lab Sample ID: 880-33291-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	62481	09/14/23 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62513	09/16/23 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62747	09/16/23 19:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			62711	09/15/23 22:41	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	62583	09/15/23 12:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62511	09/15/23 22:41	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62558	09/15/23 11:05	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	62851	09/19/23 21:28	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: NT Global
Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

Job ID: 880-33291-1
SDG: Lea Co., NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: NT Global

Job ID: 880-33291-1

Project/Site: Earthstone-Gramma Ridge 34 State 3BS #005H

SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33291-1	V-1 (0-6")	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-2	V-1 (1-1.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-3	V-1 (2-2.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-4	V-1 (3-3.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-5	V-2 (0-6")	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-6	V-2 (1-1.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-7	V-2 (2-2.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-8	V-2 (3-3.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-10	V-3 (0-6")	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-11	V-3 (1-1.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-12	V-3 (2-2.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-13	V-4 (0-6")	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-14	V-4 (1-1.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-15	V-4 (2-2.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-16	V-4 (3-3.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-17	V-5 (0-6")	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-18	V-5 (1-1.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-19	V-5 (2-2.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-20	V-5 (3-3.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-21	V-5 (4-4.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-22	V-5 (5-5.5')	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-23	H-1 (0-6")	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-24	H-2 (0-6")	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-25	H-3 (0-6")	Solid	09/13/23 00:00	09/14/23 14:32
880-33291-26	H-4 (0-6")	Solid	09/13/23 00:00	09/14/23 14:32



880-33291 Chain of Custody

Page 1 of 3

Work Order Comments

Program: UST/PST ☐ PRR ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☒ ADAPT ☐ Other

[illegible]

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Sl. No.	Received by (Signature)	Date/Time



NTG
ENVIRONMENTAL

Chain of Custody

Work Order No: 33291

9/20/2023

Project Manager	Becky Haskell	Bill to (if different)	Chris Martin
Company Name	NTG Environmental	Company Name	Earthstone Energy
Address	701 Tradewinds Blvd, Suite C	Address	600 N Marfield Suite 1000
City, State ZIP	Midland, TX 79706	City, State ZIP	Midland, Texas 79701
Phone	432-967-6544	Email	ikindley@ntglobal.com bhaskell@ntglobal.com

Page 2 of 3	
Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables EDD <input checked="" type="checkbox"/> ADAPT <input type="checkbox"/> Other	

Project Name	Earthstone - Grama Ridge 34 State 3BS #005H	Turn Around	<input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Due Date	Standard	Parameters	ANALYSIS REQUEST	Preservative Codes
Project Number	237579							
Project Location	Lea Co., NM							
Sampler's Name	Grant Gardner							
PO #								
SAMPLE RECEIPT	Temp Blank	Yes No	Well Ice	Yes No				
Received Inact	Yes No	Thermometer ID						
Cooler Custody Seals	Yes No N/A	Correction Factor						
Sample Custody Seals	Yes No N/A	Temperature Reading						
Total Containers		Corrected Temperature						
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont		Sample Comments
V-3 (1-1-5)	9/13/2023	-	X	-	Grab	1	X	X
V-3 (2-2-5)	9/13/2023	-	X	-	Grab	1	X	X
V-4 (0-6")	9/13/2023	-	X	-	Grab	1	X	X
V-4 (1-1-5)	9/13/2023	-	X	-	Grab	1	X	X
V-4 (2-2-5)	9/13/2023	-	X	-	Grab	1	X	X
V-4 (3-3-5)	9/13/2023	-	X	-	Grab	1	X	X
V-5 (0-6")	9/13/2023	-	X	-	Grab	1	X	X
V-5 (1-1-5)	9/13/2023	-	X	-	Grab	1	X	X
V-5 (2-2-5)	9/13/2023	-	X	-	Grab	1	X	X
V-5 (3-3-5)	9/13/2023	-	X	-	Grab	1	X	X

Additional Comments:

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
Grant Gardner		9/13/23			2
3		9/13/23			4
5					6



Chain of Custody

Loc: 880

Work Order No: 33291

9/20/2023

Page 3 of 3

Project Manager	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name	NTG Environmental	Company Name:	Earthstone Energy
Address:	701 Tradewinds Blvd, Suite C	Address:	600 N Marlenfeld Suite 1000
City, State ZIP	Midland, TX 79706	City, State ZIP	Midland, Texas 79701
Phone:	432-967-6544	Email	kindley@ntglobal.com bhaskell@ntglobal.com

Project Name	Earthstone - Grama Ridge 34 State 3BS #005H	Turn Around	Due Date	Standard	Parameters	ANALYSIS REQUEST	Preservative Codes
Project Number	237579	<input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush					None NO DI Water H ₂ O
Project Location	Lea Co, NM						Cool Cool MeOH Me
Sampler's Name	Grant Gardner						HCL HC HNO ₃ HN
PO #:							H ₂ SO ₄ H ₂ NaOH Na
SAMPLE RECEIPT	Temp Blank	Yes No	Wet Ice	Yes No			H ₃ PO ₄ HP
Received Intact:	Yes No						NaHSO ₄ NABIS
Cooler Custody Seals:	Yes No N/A						Na ₂ S ₂ O ₃ NaSO ₃
Sample Custody Seals:	Yes No N/A						Zn Acetate+NaOH Zn
Total Containers:							NaOH+Ascorbic Acid SAPC
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Sample Comments
V-5 (4-4 5')	9/13/2023	-	X	-	Grab	1	X X X
V-5 (5-5 5')	9/13/2023	-	X	-	Grab	1	X X X
H-1 (0-6')	9/13/2023	-	X	-	Grab	1	X X X
H-2 (0-6')	9/13/2023	-	X	-	Grab	1	X X X
H-3 (0-6')	9/13/2023	-	X	-	Grab	1	X X X
H-4 (0-6')	9/13/2023	-	X	-	Grab	1	X X X

Additional Comments:

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
Grant Gardner		9/14/23			2
		9/13/23			4
					6

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-33291-1

SDG Number: Lea Co., NM

Login Number: 33291

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

November 21, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GRAMA RIDGE

Enclosed are the results of analyses for samples received by the laboratory on 11/16/23 14:23.

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, appearing to read "Mike Snyder".

Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 4 (3') (H236283-01)

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	11/17/2023	ND	2.06	103	2.00	5.32		
Toluene*	<0.050	0.050	11/17/2023	ND	1.86	93.1	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	1.93	96.3	2.00	7.16		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	5.81	96.8	6.00	7.30		
Total BTEX	<0.300	0.300	11/17/2023	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	160	16.0	11/17/2023	ND	464	116	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	187	93.6	200	2.34	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	193	96.6	200	2.11	
EXT DRO >C28-C36	10.6	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 5 (3') (H236283-02)

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	11/17/2023	ND	2.06	103	2.00	5.32	
Toluene*	<0.050	0.050	11/17/2023	ND	1.86	93.1	2.00	6.98	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	1.93	96.3	2.00	7.16	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	5.81	96.8	6.00	7.30	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/17/2023	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	11/17/2023	ND	187	93.6	200	2.34	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	193	96.6	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 7 (4') (H236283-03)

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	11/17/2023	ND	2.06	103	2.00	5.32		
Toluene*	<0.050	0.050	11/17/2023	ND	1.86	93.1	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	1.93	96.3	2.00	7.16		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	5.81	96.8	6.00	7.30		
Total BTEX	<0.300	0.300	11/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/17/2023	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	11/17/2023	ND	187	93.6	200	2.34	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	193	96.6	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 15 (4') (H236283-04)

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	11/17/2023	ND	2.06	103	2.00	5.32	
Toluene*	<0.050	0.050	11/17/2023	ND	1.86	93.1	2.00	6.98	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	1.93	96.3	2.00	7.16	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	5.81	96.8	6.00	7.30	
Total BTEX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/17/2023	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	11/17/2023	ND	187	93.6	200	2.34	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	193	96.6	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 23 (6') (H236283-05)

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	11/17/2023	ND	2.06	103	2.00	5.32	
Toluene*	<0.050	0.050	11/17/2023	ND	1.86	93.1	2.00	6.98	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	1.93	96.3	2.00	7.16	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	5.81	96.8	6.00	7.30	
Total BTEX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	11/17/2023	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	11/17/2023	ND	187	93.6	200	2.34	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	193	96.6	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received: 11/16/2023
Reported: 11/21/2023
Project Name: GRAMA RIDGE
Project Number: 237778
Project Location: NONE GIVEN

Sampling Date: 11/16/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 26 (6') (H236283-06)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2023	ND	2.06	103	2.00	5.32		
Toluene*	<0.050	0.050	11/18/2023	ND	1.86	93.1	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/18/2023	ND	1.93	96.3	2.00	7.16		
Total Xylenes*	<0.150	0.150	11/18/2023	ND	5.81	96.8	6.00	7.30		
Total BTX	<0.300	0.300	11/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/17/2023	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	11/17/2023	ND	187	93.6	200	2.34	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	193	96.6	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 32 (7') (H236283-07)

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	11/18/2023	ND	2.06	103	2.00	5.32	
Toluene*	<0.050	0.050	11/18/2023	ND	1.86	93.1	2.00	6.98	
Ethylbenzene*	<0.050	0.050	11/18/2023	ND	1.93	96.3	2.00	7.16	
Total Xylenes*	<0.150	0.150	11/18/2023	ND	5.81	96.8	6.00	7.30	
Total BTEX	<0.300	0.300	11/18/2023	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	11/17/2023	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	11/17/2023	ND	187	93.6	200	2.34	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	193	96.6	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 33 (7') (H236283-08)

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	11/18/2023	ND	2.06	103	2.00	5.32	
Toluene*	<0.050	0.050	11/18/2023	ND	1.86	93.1	2.00	6.98	
Ethylbenzene*	<0.050	0.050	11/18/2023	ND	1.93	96.3	2.00	7.16	
Total Xylenes*	<0.150	0.150	11/18/2023	ND	5.81	96.8	6.00	7.30	
Total BTEX	<0.300	0.300	11/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/17/2023	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	11/17/2023	ND	187	93.6	200	2.34	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	193	96.6	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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: 11/16/2023
Reported: 11/21/2023
Project Name: GRAMA RIDGE
Project Number: 237778
Project Location: NONE GIVEN

Sampling Date: 11/16/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 34 (7') (H236283-09)

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	11/18/2023	ND	2.06	103	2.00	5.32		
Toluene*	<0.050	0.050	11/18/2023	ND	1.86	93.1	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/18/2023	ND	1.93	96.3	2.00	7.16		
Total Xylenes*	<0.150	0.150	11/18/2023	ND	5.81	96.8	6.00	7.30		
Total BTEX	<0.300	0.300	11/18/2023	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	64.0	16.0	11/17/2023	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	11/17/2023	ND	187	93.6	200	2.34	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	193	96.6	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 35 (7') (H236283-10)

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	11/17/2023	ND	1.89	94.4	2.00	2.95	
Toluene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	2.12	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.01	101	2.00	2.15	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.08	101	6.00	2.28	
Total BTEX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/17/2023	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	11/17/2023	ND	187	93.6	200	2.34	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	193	96.6	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 36 (7') (H236283-11)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	1.89	94.4	2.00	2.95		
Toluene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	2.12		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.01	101	2.00	2.15		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.08	101	6.00	2.28		
Total BTX	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/17/2023	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	11/17/2023	ND	199	99.4	200	2.17	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	201	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 37 (7') (H236283-12)

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	11/17/2023	ND	1.89	94.4	2.00	2.95		
Toluene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	2.12		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.01	101	2.00	2.15		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.08	101	6.00	2.28		
Total BTEX	<0.300	0.300	11/17/2023	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	144	16.0	11/17/2023	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	11/17/2023	ND	199	99.4	200	2.17	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	201	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 38 (7') (H236283-13)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	1.89	94.4	2.00	2.95	
Toluene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	2.12	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.01	101	2.00	2.15	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.08	101	6.00	2.28	
Total BTEX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/17/2023	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	11/17/2023	ND	199	99.4	200	2.17	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	201	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 40 (4') (H236283-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	1.89	94.4	2.00	2.95		
Toluene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	2.12		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.01	101	2.00	2.15		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.08	101	6.00	2.28		
Total BTEX	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	11/17/2023	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	11/17/2023	ND	199	99.4	200	2.17	
DRO >C10-C28*	33.9	10.0	11/17/2023	ND	201	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 43 (4') (H236283-15)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	1.89	94.4	2.00	2.95	
Toluene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	2.12	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.01	101	2.00	2.15	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.08	101	6.00	2.28	
Total BTEX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/17/2023	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	11/17/2023	ND	199	99.4	200	2.17	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	201	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 44 (4') (H236283-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	1.89	94.4	2.00	2.95		
Toluene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	2.12		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.01	101	2.00	2.15		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.08	101	6.00	2.28		
Total BTEX	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/17/2023	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	11/17/2023	ND	199	99.4	200	2.17	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	201	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For 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: 11/16/2023
 Reported: 11/21/2023
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: NONE GIVEN

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 39 (3') (H236283-17)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	1.89	94.4	2.00	2.95	
Toluene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	2.12	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.01	101	2.00	2.15	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.08	101	6.00	2.28	
Total BTEX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/17/2023	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	11/17/2023	ND	199	99.4	200	2.17	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	201	101	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For 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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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Page 20 of 21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTC						BILL TO		ANALYSIS REQUEST								
Project Manager: Beddyteskel						P.O. #:										
Address: 209 W Main						Company:										
City: Carl'sbad						Attn:										
State: NM Zip: 88220						Address:										
Phone #: 434-924-8056						Fax #:										
Project #: 237778						Project Owner: Earthshare										
Project Name: Donna Ridge						City:										
Project Location: Los Comany						State:										
Sampler Name: La Gr Valera						Phone #:										
FOR LAB USE ONLY						Fax #:										
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS	MATRIX		PRESERV.	SAMPLING						
							GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :									
HA360883		CS-36 (7)		C		1				DATE	TIME	Chlorides				
11		CS-37 (7)		C		1				11-16	9:30	TPH				
12		CS-38 (7)		C		1						BTEX				
13		CS-40 (4)		C		1										
14		CS-43 (4)		C		1										
15		CS-44 (4)		C		1										
16		CS-39 (3)		C		1										
17																

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Relinquished By: [Signature]		Date: 11-16-23		Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Relinquished By: [Signature]		Date:		Received By:		All Results are emailed. Please provide Email address:	
Time: 2:23		Time:		REMARKS:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: -0.5c		Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Standard: <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Corrected Temp. °C:		Sample Condition:		CHECKED BY: [Signature] (Initials)		Bacteria (only) Sample Condition:	
		Thermometer ID #140		Correction Factor 0°C		Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	
						Observed Temp. °C:	
						Corrected Temp. °C:	

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

January 08, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GRAMA RIDGE

Enclosed are the results of analyses for samples received by the laboratory on 11/29/23 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS - 1 (7)	H236437-01	Soil	29-Nov-23 09:00	29-Nov-23 16:11
CS - 2 (7)	H236437-02	Soil	29-Nov-23 09:00	29-Nov-23 16:11
CS - 3 (7)	H236437-03	Soil	29-Nov-23 09:00	29-Nov-23 16:11
CS - 6 (7)	H236437-04	Soil	29-Nov-23 09:00	29-Nov-23 16:11
CS - 8 (7)	H236437-05	Soil	29-Nov-23 09:00	29-Nov-23 16:11
CS - 9 (7)	H236437-06	Soil	29-Nov-23 09:00	29-Nov-23 16:11
CS - 10 (7)	H236437-07	Soil	29-Nov-23 09:00	29-Nov-23 16:11
CS - 11 (7)	H236437-08	Soil	29-Nov-23 09:00	29-Nov-23 16:11
CS - 12 (7)	H236437-09	Soil	29-Nov-23 09:00	29-Nov-23 16:11
CS - 13 (7)	H236437-10	Soil	29-Nov-23 09:00	29-Nov-23 16:11
CS - 14 (7)	H236437-11	Soil	29-Nov-23 09:30	29-Nov-23 16:11
CS - 16 (1)	H236437-12	Soil	29-Nov-23 09:30	29-Nov-23 16:11
CS - 18 (6)	H236437-13	Soil	29-Nov-23 09:30	29-Nov-23 16:11
CS - 19 (6)	H236437-14	Soil	29-Nov-23 09:30	29-Nov-23 16:11
CS - 20 (6)	H236437-15	Soil	29-Nov-23 09:30	29-Nov-23 16:11
CS - 21 (1')	H236437-16	Soil	29-Nov-23 09:30	29-Nov-23 16:11
CS - 22 (1)	H236437-17	Soil	29-Nov-23 09:30	29-Nov-23 16:11
CS - 24 (1)	H236437-18	Soil	29-Nov-23 09:30	29-Nov-23 16:11
CS - 25 (3)	H236437-19	Soil	29-Nov-23 09:30	29-Nov-23 16:11
CS - 27 (3)	H236437-20	Soil	29-Nov-23 09:30	29-Nov-23 16:11
CS - 17 (6)	H236437-21	Soil	29-Nov-23 10:00	29-Nov-23 16:11
CS - 28 (3)	H236437-22	Soil	29-Nov-23 10:00	29-Nov-23 16:11
CS - 29 (3)	H236437-23	Soil	29-Nov-23 10:00	29-Nov-23 16:11
CS - 30 (7)	H236437-24	Soil	29-Nov-23 10:00	29-Nov-23 16:11
CS - 31 (4)	H236437-25	Soil	29-Nov-23 10:00	29-Nov-23 16:11
CS - 41 (3)	H236437-26	Soil	29-Nov-23 10:00	29-Nov-23 16:11
CS - 42 (3)	H236437-27	Soil	29-Nov-23 10:00	29-Nov-23 16:11

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 45 (3)	H236437-28	Soil	29-Nov-23 10:00	29-Nov-23 16:11
CS - 46 (3)	H236437-29	Soil	29-Nov-23 10:00	29-Nov-23 16:11
CS - 47 (3)	H236437-30	Soil	29-Nov-23 10:00	29-Nov-23 16:11
CS - 48 (3)	H236437-31	Soil	29-Nov-23 10:30	29-Nov-23 16:11
SW - 1 (0-7)	H236437-32	Soil	29-Nov-23 10:30	29-Nov-23 16:11
SW - 2 (0-7)	H236437-33	Soil	29-Nov-23 10:30	29-Nov-23 16:11
SW - 3 (0-4)	H236437-34	Soil	29-Nov-23 10:30	29-Nov-23 16:11
SW - 4 (0-4)	H236437-35	Soil	29-Nov-23 10:30	29-Nov-23 16:11
SW - 5 (0-7)	H236437-36	Soil	29-Nov-23 10:30	29-Nov-23 16:11
SW - 6 (0-7)	H236437-37	Soil	29-Nov-23 10:30	29-Nov-23 16:11
SW - 7 (0-7)	H236437-38	Soil	29-Nov-23 10:30	29-Nov-23 16:11
SW - 8 (0-7)	H236437-39	Soil	29-Nov-23 10:30	29-Nov-23 16:11
SW - 9 (0-3)	H236437-40	Soil	29-Nov-23 10:30	29-Nov-23 16:11
SW - 10 (3-7)	H236437-41	Soil	29-Nov-23 11:00	29-Nov-23 16:11
SW - 11 (1-3)	H236437-42	Soil	29-Nov-23 11:00	29-Nov-23 16:11
SW - 12 (0-1')	H236437-43	Soil	29-Nov-23 11:00	29-Nov-23 16:11
SW - 13 (1-3)	H236437-44	Soil	29-Nov-23 11:00	29-Nov-23 16:11
SW - 14 (1-7)	H236437-45	Soil	29-Nov-23 11:00	29-Nov-23 16:11
SW - 15 (3-7)	H236437-46	Soil	29-Nov-23 11:00	29-Nov-23 16:11
SW - 16 (0-3)	H236437-47	Soil	29-Nov-23 11:00	29-Nov-23 16:11
SW - 17 (0-3)	H236437-48	Soil	29-Nov-23 11:00	29-Nov-23 16:11
SW - 18 (3-6)	H236437-49	Soil	29-Nov-23 11:00	29-Nov-23 16:11
SW - 19 (3-7)	H236437-50	Soil	29-Nov-23 11:00	29-Nov-23 16:11
SW - 20 (4-7)	H236437-51	Soil	29-Nov-23 11:30	29-Nov-23 16:11
SW - 21 (0-4)	H236437-52	Soil	29-Nov-23 11:30	29-Nov-23 16:11
SW - 22 (0-4)	H236437-53	Soil	29-Nov-23 11:30	29-Nov-23 16:11
SW - 23 (6-7)	H236437-54	Soil	29-Nov-23 11:30	29-Nov-23 16:11
SW - 24 (4-6)	H236437-55	Soil	29-Nov-23 11:30	29-Nov-23 16:11
SW - 25 (6-7)	H236437-56	Soil	29-Nov-23 11:30	29-Nov-23 16:11
SW - 26 (4-7)	H236437-57	Soil	29-Nov-23 11:30	29-Nov-23 16:11

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 27 (0-7')

H236437-58

Soil

29-Nov-23 11:30

29-Nov-23 16:11

01/08/24 - Client changed the sample IDs on -16, -43 and -58 (see COC). This is the revised report and will replace the one sent on 12/04/23.

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

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 1 (7)
H236437-01 (Soil)

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

Chloride	176		16.0	mg/kg	4	3113010	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113001	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3113001 JH/ 30-Nov-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112927	MS	30-Nov-23	8015B	
DRO >C10-C28*	273		10.0	mg/kg	1	3112927	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112927	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane 73.3 % 48.2-134 3112927 MS 30-Nov-23 8015B

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148 3112927 MS 30-Nov-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 2 (7)
H236437-02 (Soil)

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

Chloride	352		16.0	mg/kg	4	3113010	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113001	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %		71.5-134	3113001	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112927	MS	30-Nov-23	8015B	
DRO >C10-C28*	77.7		10.0	mg/kg	1	3112927	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112927	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.0 %		48.2-134	3112927	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.5 %		49.1-148	3112927	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 3 (7)
H236437-03 (Soil)

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

Chloride	160		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113001	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.9 %		71.5-134	3113001	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	QM-07
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.0 %		48.2-134	3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %		49.1-148	3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 6 (7)
H236437-04 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113001	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	3113001	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.5 %		48.2-134	3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.0 %		49.1-148	3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 8 (7)
H236437-05 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113001	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		3113001	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	289		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			93.3 %	48.2-134		3112928	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	49.1-148		3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 9 (7)
H236437-06 (Soil)

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

Chloride	176		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113001	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113001	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		3113001	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	204		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			87.1 %	48.2-134		3112928	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	49.1-148		3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 10 (7)
H236437-07 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	QR-03
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	QR-03
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	QR-03
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	33.5		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.5 %	48.2-134		3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.6 %	49.1-148		3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 11 (7)
H236437-08 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	51.7		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.7 %		48.2-134	3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.7 %		49.1-148	3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 12 (7)
H236437-09 (Soil)

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

Chloride	560		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	40.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			88.4 %		48.2-134	3112928	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		49.1-148	3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 13 (7)
H236437-10 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	271		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.0 %	48.2-134		3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	49.1-148		3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 14 (7)
H236437-11 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	408		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			90.5 %		48.2-134	3112928	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			107 %		49.1-148	3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 16 (1)
H236437-12 (Soil)

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

Chloride	240		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.4 %	48.2-134		3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %	49.1-148		3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 18 (6)
H236437-13 (Soil)

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

Chloride	528		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.7 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	62.2		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			81.0 %		48.2-134	3112928	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			88.3 %		49.1-148	3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 19 (6)
H236437-14 (Soil)

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

Chloride	144		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	38.5		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			88.5 %		48.2-134	3112928	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			99.6 %		49.1-148	3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 20 (6)
H236437-15 (Soil)

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

Chloride	144		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.8 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	50.6		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.0 %		48.2-134	3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.6 %		49.1-148	3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 21 (1')
H236437-16 (Soil)

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

Chloride	240		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	163		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.3 %	48.2-134		3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.8 %	49.1-148		3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 22 (1)
H236437-17 (Soil)

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

Chloride	720		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	66.1		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.6 %		48.2-134	3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			100 %		49.1-148	3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 24 (1)
H236437-18 (Soil)

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

Chloride	384		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.7 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.2 %		48.2-134	3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		49.1-148	3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 25 (3)
H236437-19 (Soil)

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

Chloride	416		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	25.8		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.6 %		48.2-134	3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.2 %		49.1-148	3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 27 (3)
H236437-20 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.5 %	71.5-134		3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.7 %	48.2-134		3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %	49.1-148		3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 17 (6)
H236437-21 (Soil)

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

Chloride	768		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	64.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.1 %	48.2-134		3112928	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.7 %	49.1-148		3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 28 (3)
H236437-22 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3113020	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112928	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			97.0 %	48.2-134		3112928	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	49.1-148		3112928	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 29 (3)
H236437-23 (Soil)

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

Chloride	496		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.6 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	66.4		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			71.3 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			69.1 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 30 (7)
H236437-24 (Soil)

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

Chloride	1360		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			73.8 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			71.8 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 31 (4)
H236437-25 (Soil)

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

Chloride	192		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	26.9		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.9 %	48.2-134		3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.7 %	49.1-148		3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 41 (3)
H236437-26 (Soil)

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

Chloride	320		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113002	JH	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113002	JH	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		71.5-134	3113002	JH	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	13.1		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			70.9 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			65.7 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 42 (3)
H236437-27 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %	71.5-134		3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.5 %	48.2-134		3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			74.4 %	49.1-148		3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 45 (3)
H236437-28 (Soil)

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

Chloride	560		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			120 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	140		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			73.6 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			72.9 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 46 (3)
H236437-29 (Soil)

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

Chloride	208		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			120 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	10.1		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			63.8 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			59.4 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 47 (3)
H236437-30 (Soil)

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

Chloride	592		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			71.7 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			66.2 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

CS - 48 (3)
H236437-31 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %	71.5-134		3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.7 %	48.2-134		3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			70.3 %	49.1-148		3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 1 (0-7)
H236437-32 (Soil)

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

Chloride	16.0		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %	71.5-134		3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			85.0 %	48.2-134		3112929	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			78.6 %	49.1-148		3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 2 (0-7)
H236437-33 (Soil)

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

Chloride	240		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			72.9 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			67.6 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 3 (0-4)
H236437-34 (Soil)

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

Chloride	2200		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			117 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			60.0 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			54.4 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 4 (0-4)
H236437-35 (Soil)

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

Chloride	400		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	73.3		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			64.9 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			62.3 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 5 (0-7)
H236437-36 (Soil)

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

Chloride	272		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			120 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	212		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			72.6 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			71.0 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 6 (0-7)
H236437-37 (Soil)

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

Chloride	112		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			120 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	116		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			62.0 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			57.8 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 7 (0-7)
H236437-38 (Soil)

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

Chloride	1880		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			120 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.1 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			68.4 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 8 (0-7)
H236437-39 (Soil)

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

Chloride	384		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			69.2 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			64.0 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 9 (0-3)
H236437-40 (Soil)

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

Chloride	340		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			120 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			54.6 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			50.1 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 10 (3-7)
H236437-41 (Soil)

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

Chloride	784		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			79.3 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			73.4 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 11 (1-3)
H236437-42 (Soil)

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

Chloride	608		16.0	mg/kg	4	3113016	HM	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
DRO >C10-C28*	10.7		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3112929	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			63.3 %		48.2-134	3112929	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			59.8 %		49.1-148	3112929	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 12 (0-1')**H236437-43 (Soil)**

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

Chloride	816		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	31.6		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			76.2 %		48.2-134	3113004	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			81.4 %		49.1-148	3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 13 (1-3)
H236437-44 (Soil)

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

Chloride	224		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			120 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.5 %		48.2-134	3113004	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.8 %		49.1-148	3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 14 (1-7)
H236437-45 (Soil)

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

Chloride	640		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %		71.5-134	3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	166		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			81.0 %		48.2-134	3113004	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			86.0 %		49.1-148	3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 15 (3-7)
H236437-46 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113003	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113003	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %	71.5-134		3113003	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	31.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			83.0 %	48.2-134		3113004	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			88.2 %	49.1-148		3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 16 (0-3)
H236437-47 (Soil)

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

Chloride	128		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			84.6 %	48.2-134		3113004	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			87.2 %	49.1-148		3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 17 (0-3)
H236437-48 (Soil)

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

Chloride	336		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %		71.5-134	3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.3 %		48.2-134	3113004	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.2 %		49.1-148	3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 18 (3-6)
H236437-49 (Soil)

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

Chloride	112		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			85.6 %	48.2-134		3113004	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			88.7 %	49.1-148		3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 19 (3-7)
H236437-50 (Soil)

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

Chloride	832		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.3 %	48.2-134		3113004	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.9 %	49.1-148		3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 20 (4-7)
H236437-51 (Soil)

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

Chloride	544		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %		71.5-134	3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.8 %		48.2-134	3113004	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			91.7 %		49.1-148	3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 21 (0-4)
H236437-52 (Soil)

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

Chloride	2560		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		71.5-134	3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	14.4		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			92.9 %		48.2-134	3113004	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			97.1 %		49.1-148	3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 22 (0-4)
H236437-53 (Soil)

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

Chloride	512		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.5 %	48.2-134		3113004	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.5 %	49.1-148		3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 23 (6-7)
H236437-54 (Soil)

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

Chloride	192		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.2 %	48.2-134		3113004	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.6 %	49.1-148		3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 24 (4-6)
H236437-55 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

Surrogate: 1-Chlorooctane			77.8 %	48.2-134		3113004	MS	30-Nov-23	8015B	
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Surrogate: 1-Chlorooctadecane			79.7 %	49.1-148		3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 25 (6-7)
H236437-56 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			75.1 %	48.2-134		3113004	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.0 %	49.1-148		3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 26 (4-7)
H236437-57 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.2 %	48.2-134		3113004	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.6 %	49.1-148		3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

SW - 27 (0-7')**H236437-58 (Soil)**

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

Chloride	1630		16.0	mg/kg	4	3113021	AC	30-Nov-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3113005	JH/	30-Nov-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3113005	JH/	30-Nov-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %		71.5-134	3113005	JH/	30-Nov-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3113004	MS	30-Nov-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.3 %		48.2-134	3113004	MS	30-Nov-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.3 %		49.1-148	3113004	MS	30-Nov-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3113010 - 1:4 DI Water**Blank (3113010-BLK1)**

Prepared & Analyzed: 30-Nov-23

Chloride	ND	16.0	mg/kg						
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LCS (3113010-BS1)

Prepared & Analyzed: 30-Nov-23

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (3113010-BSD1)

Prepared & Analyzed: 30-Nov-23

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	
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Batch 3113016 - 1:4 DI Water**Blank (3113016-BLK1)**

Prepared & Analyzed: 30-Nov-23

Chloride	ND	16.0	mg/kg						
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LCS (3113016-BS1)

Prepared & Analyzed: 30-Nov-23

Chloride	432	16.0	mg/kg	400	108	80-120			
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LCS Dup (3113016-BSD1)

Prepared & Analyzed: 30-Nov-23

Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20	
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Batch 3113020 - 1:4 DI Water**Blank (3113020-BLK1)**

Prepared & Analyzed: 30-Nov-23

Chloride	ND	16.0	mg/kg						
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LCS (3113020-BS1)

Prepared & Analyzed: 30-Nov-23

Chloride	416	16.0	mg/kg	400	104	80-120			
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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3113020 - 1:4 DI Water**LCS Dup (3113020-BSD1)**

Prepared & Analyzed: 30-Nov-23

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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Batch 3113021 - 1:4 DI Water**Blank (3113021-BLK1)**

Prepared & Analyzed: 30-Nov-23

Chloride	ND	16.0	mg/kg							
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LCS (3113021-BS1)

Prepared & Analyzed: 30-Nov-23

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (3113021-BSD1)

Prepared & Analyzed: 30-Nov-23

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3113001 - Volatiles**Blank (3113001-BLK1)**

Prepared & Analyzed: 30-Nov-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	71.5-134			

LCS (3113001-BS1)

Prepared & Analyzed: 30-Nov-23

Benzene	1.77	0.050	mg/kg	2.00		88.3	82.8-130			
Toluene	1.79	0.050	mg/kg	2.00		89.5	86-128			
Ethylbenzene	1.89	0.050	mg/kg	2.00		94.5	85.9-128			
m,p-Xylene	3.83	0.100	mg/kg	4.00		95.7	89-129			
o-Xylene	1.93	0.050	mg/kg	2.00		96.6	86.1-125			
Total Xylenes	5.76	0.150	mg/kg	6.00		96.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0547		mg/kg	0.0500		109	71.5-134			

LCS Dup (3113001-BSD1)

Prepared & Analyzed: 30-Nov-23

Benzene	1.96	0.050	mg/kg	2.00		98.1	82.8-130	10.6	15.8	
Toluene	2.00	0.050	mg/kg	2.00		100	86-128	11.2	15.9	
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128	11.4	16	
m,p-Xylene	4.30	0.100	mg/kg	4.00		108	89-129	11.7	16.2	
o-Xylene	2.16	0.050	mg/kg	2.00		108	86.1-125	11.1	16.7	
Total Xylenes	6.46	0.150	mg/kg	6.00		108	88.2-128	11.5	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0552		mg/kg	0.0500		110	71.5-134			

Batch 3113002 - Volatiles**Blank (3113002-BLK1)**

Prepared & Analyzed: 30-Nov-23

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

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3113002 - Volatiles**Blank (3113002-BLK1)**

Prepared & Analyzed: 30-Nov-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	71.5-134			

LCS (3113002-BS1)

Prepared & Analyzed: 30-Nov-23

Benzene	1.86	0.050	mg/kg	2.00		93.1	82.8-130			
Toluene	1.88	0.050	mg/kg	2.00		93.8	86-128			
Ethylbenzene	1.98	0.050	mg/kg	2.00		98.9	85.9-128			
m,p-Xylene	3.92	0.100	mg/kg	4.00		98.0	89-129			
o-Xylene	1.94	0.050	mg/kg	2.00		97.0	86.1-125			
Total Xylenes	5.86	0.150	mg/kg	6.00		97.7	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0528		mg/kg	0.0500		106	71.5-134			

LCS Dup (3113002-BS1)

Prepared & Analyzed: 30-Nov-23

Benzene	1.98	0.050	mg/kg	2.00		98.8	82.8-130	5.99	15.8	
Toluene	2.04	0.050	mg/kg	2.00		102	86-128	8.42	15.9	
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	85.9-128	9.61	16	
m,p-Xylene	4.31	0.100	mg/kg	4.00		108	89-129	9.42	16.2	
o-Xylene	2.14	0.050	mg/kg	2.00		107	86.1-125	9.59	16.7	
Total Xylenes	6.44	0.150	mg/kg	6.00		107	88.2-128	9.47	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0548		mg/kg	0.0500		110	71.5-134			

Batch 3113003 - Volatiles**Blank (3113003-BLK1)**

Prepared & Analyzed: 30-Nov-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0592		mg/kg	0.0500		118	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3113003 - Volatiles**LCS (3113003-BS1)**

Prepared & Analyzed: 30-Nov-23

Benzene	1.83	0.050	mg/kg	2.00		91.6	82.8-130		
Toluene	1.92	0.050	mg/kg	2.00		96.2	86-128		
Ethylbenzene	1.94	0.050	mg/kg	2.00		97.2	85.9-128		
m,p-Xylene	3.99	0.100	mg/kg	4.00		99.9	89-129		
o-Xylene	1.91	0.050	mg/kg	2.00		95.5	86.1-125		
Total Xylenes	5.91	0.150	mg/kg	6.00		98.4	88.2-128		

Surrogate: 4-Bromofluorobenzene (PID)

0.0572

mg/kg

0.0500

114

71.5-134

LCS Dup (3113003-BSD1)

Prepared & Analyzed: 30-Nov-23

Benzene	1.91	0.050	mg/kg	2.00		95.5	82.8-130	4.18	15.8
Toluene	2.01	0.050	mg/kg	2.00		100	86-128	4.24	15.9
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	85.9-128	4.01	16
m,p-Xylene	4.17	0.100	mg/kg	4.00		104	89-129	4.18	16.2
o-Xylene	2.01	0.050	mg/kg	2.00		100	86.1-125	5.07	16.7
Total Xylenes	6.17	0.150	mg/kg	6.00		103	88.2-128	4.47	16.3

Surrogate: 4-Bromofluorobenzene (PID)

0.0563

mg/kg

0.0500

113

71.5-134

Batch 3113005 - Volatiles**Blank (3113005-BLK1)**

Prepared & Analyzed: 30-Nov-23

Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						

Surrogate: 4-Bromofluorobenzene (PID)

0.0530

mg/kg

0.0500

106

71.5-134

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3113005 - Volatiles**LCS (3113005-BS1)**

Prepared & Analyzed: 30-Nov-23

Benzene	2.23	0.050	mg/kg	2.00		111	82.8-130		
Toluene	2.20	0.050	mg/kg	2.00		110	86-128		
Ethylbenzene	2.17	0.050	mg/kg	2.00		109	85.9-128		
m,p-Xylene	4.82	0.100	mg/kg	4.00		120	89-129		
o-Xylene	2.11	0.050	mg/kg	2.00		106	86.1-125		
Total Xylenes	6.93	0.150	mg/kg	6.00		115	88.2-128		

Surrogate: 4-Bromofluorobenzene (PID)

0.0518

mg/kg

0.0500

104

71.5-134

LCS Dup (3113005-BSD1)

Prepared & Analyzed: 30-Nov-23

Benzene	2.11	0.050	mg/kg	2.00		106	82.8-130	5.29	15.8
Toluene	2.08	0.050	mg/kg	2.00		104	86-128	5.72	15.9
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	85.9-128	5.55	16
m,p-Xylene	4.60	0.100	mg/kg	4.00		115	89-129	4.58	16.2
o-Xylene	2.01	0.050	mg/kg	2.00		100	86.1-125	5.12	16.7
Total Xylenes	6.61	0.150	mg/kg	6.00		110	88.2-128	4.74	16.3

Surrogate: 4-Bromofluorobenzene (PID)

0.0519

mg/kg

0.0500

104

71.5-134

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3112927 - General Prep - Organics**Blank (3112927-BLK1)**

Prepared: 29-Nov-23 Analyzed: 30-Nov-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	43.6		mg/kg	50.0		87.2	48.2-134		
Surrogate: 1-Chlorooctadecane	40.3		mg/kg	50.0		80.6	49.1-148		

LCS (3112927-BS1)

Prepared: 29-Nov-23 Analyzed: 30-Nov-23

GRO C6-C10	215	10.0	mg/kg	200		107	66.4-123		
DRO >C10-C28	195	10.0	mg/kg	200		97.4	66.5-118		
Total TPH C6-C28	409	10.0	mg/kg	400		102	77.6-123		
Surrogate: 1-Chlorooctane	45.8		mg/kg	50.0		91.7	48.2-134		
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		89.0	49.1-148		

LCS Dup (3112927-BS1)

Prepared: 29-Nov-23 Analyzed: 30-Nov-23

GRO C6-C10	205	10.0	mg/kg	200		103	66.4-123	4.39	17.7
DRO >C10-C28	186	10.0	mg/kg	200		92.9	66.5-118	4.76	21
Total TPH C6-C28	391	10.0	mg/kg	400		97.8	77.6-123	4.56	18.5
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.7	48.2-134		
Surrogate: 1-Chlorooctadecane	43.9		mg/kg	50.0		87.7	49.1-148		

Batch 3112928 - General Prep - Organics**Blank (3112928-BLK1)**

Prepared: 29-Nov-23 Analyzed: 30-Nov-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	42.1		mg/kg	50.0		84.2	48.2-134		
Surrogate: 1-Chlorooctadecane	48.0		mg/kg	50.0		96.1	49.1-148		

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3112928 - General Prep - Organics**LCS (3112928-BS1)**

Prepared: 29-Nov-23 Analyzed: 30-Nov-23

GRO C6-C10	219	10.0	mg/kg	200		109	66.4-123		
DRO >C10-C28	218	10.0	mg/kg	200		109	66.5-118		
Total TPH C6-C28	436	10.0	mg/kg	400		109	77.6-123		
Surrogate: 1-Chlorooctane	45.7		mg/kg	50.0		91.5	48.2-134		
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0		95.5	49.1-148		

LCS Dup (3112928-BS1)

Prepared: 29-Nov-23 Analyzed: 30-Nov-23

GRO C6-C10	218	10.0	mg/kg	200		109	66.4-123	0.274	17.7
DRO >C10-C28	224	10.0	mg/kg	200		112	66.5-118	2.74	21
Total TPH C6-C28	442	10.0	mg/kg	400		110	77.6-123	1.24	18.5
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.2	48.2-134		
Surrogate: 1-Chlorooctadecane	50.0		mg/kg	50.0		100	49.1-148		

Batch 3112929 - General Prep - Organics**Blank (3112929-BLK1)**

Prepared: 29-Nov-23 Analyzed: 30-Nov-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	39.0		mg/kg	50.0		78.1	48.2-134		
Surrogate: 1-Chlorooctadecane	38.0		mg/kg	50.0		76.0	49.1-148		

LCS (3112929-BS1)

Prepared: 29-Nov-23 Analyzed: 30-Nov-23

GRO C6-C10	186	10.0	mg/kg	200		93.1	66.4-123		
DRO >C10-C28	188	10.0	mg/kg	200		94.1	66.5-118		
Total TPH C6-C28	374	10.0	mg/kg	400		93.6	77.6-123		
Surrogate: 1-Chlorooctane	43.7		mg/kg	50.0		87.4	48.2-134		
Surrogate: 1-Chlorooctadecane	41.2		mg/kg	50.0		82.3	49.1-148		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:33

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3112929 - General Prep - Organics**LCS Dup (3112929-BSD1)**

Prepared: 29-Nov-23 Analyzed: 30-Nov-23

GRO C6-C10	187	10.0	mg/kg	200		93.4	66.4-123	0.310	17.7
DRO >C10-C28	184	10.0	mg/kg	200		92.2	66.5-118	2.07	21
Total TPH C6-C28	371	10.0	mg/kg	400		92.8	77.6-123	0.880	18.5
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.7	48.2-134		
Surrogate: 1-Chlorooctadecane	40.4		mg/kg	50.0		80.8	49.1-148		

Batch 3113004 - General Prep - Organics**Blank (3113004-BLK1)**

Prepared & Analyzed: 30-Nov-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	41.8		mg/kg	50.0		83.6	48.2-134		
Surrogate: 1-Chlorooctadecane	44.3		mg/kg	50.0		88.5	49.1-148		

LCS (3113004-BS1)

Prepared & Analyzed: 30-Nov-23

GRO C6-C10	194	10.0	mg/kg	200		96.9	66.4-123		
DRO >C10-C28	186	10.0	mg/kg	200		93.1	66.5-118		
Total TPH C6-C28	380	10.0	mg/kg	400		95.0	77.6-123		
Surrogate: 1-Chlorooctane	44.0		mg/kg	50.0		87.9	48.2-134		
Surrogate: 1-Chlorooctadecane	45.3		mg/kg	50.0		90.7	49.1-148		

LCS Dup (3113004-BSD1)

Prepared & Analyzed: 30-Nov-23

GRO C6-C10	195	10.0	mg/kg	200		97.7	66.4-123	0.825	17.7
DRO >C10-C28	187	10.0	mg/kg	200		93.4	66.5-118	0.282	21
Total TPH C6-C28	382	10.0	mg/kg	400		95.5	77.6-123	0.559	18.5
Surrogate: 1-Chlorooctane	44.9		mg/kg	50.0		89.8	48.2-134		
Surrogate: 1-Chlorooctadecane	46.1		mg/kg	50.0		92.3	49.1-148		

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTGE Project Manager: Bedna Hskel Address: 269 W Melway City: Cimarron State: NM Zip: 88220 Phone #: 432-924-8966 Fax #: Project #: 237778 Project Owner: Eaststone Project Location: East County Sampler Name: C. Lockman		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY Lab I.D. H236437 Sample I.D.		MATRIX (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER	
DATE 11-29 TIME 9:30		SAMPLING	
REMARKS * Change depth on #16 (CS-21 (6) 12/4/13 ** Customer requested Dupon changes. 11-15/24		ANALYSIS REQUEST PH Chlorides BTEX	

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Relinquished By: [Signature]
Date: 11-29
Received By: [Signature]
Date: 11-29-23
Time: 3:59
Received By: [Signature]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
Observed Temp. °C: 14.11
Corrected Temp. °C: 14.11
Sample Condition: Cool ☒ Intact ☐
Checked By: [Signature] (Initials)
Turnaround Time: Standard ☐ Rush ☒
Thermometer ID #140
Correction Factor 0°C
Bacteria (only) Sample Condition: Cool ☐ Intact ☐
Observed Temp. °C
Corrected Temp. °C

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



Company Name:

Project Manager

DEAN KOSTER

Address: 269 W McLean

City: Lindbergh State: Mn Zip: 55720

Phone #: 432 529-856
Fax #:

Project #: 237778

Project Name: Co-10

Robert M. Williams. Williams Ridge

Project Location: Eds Con-

Sampler Name: Urbekim

FOR LAB USE ONLY

Lab I.D.	Sample I.D.
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H236437

Case Note	Location and Direction	Count	Time
21	25-17	5	11-29
22	25-26	5	10:00
23	25-28	5	
24	25-30	5	
25	25-31	5	
26	25-42	5	
27	25-45	5	
28	25-46	5	
29	25-47	5	
30	25-47	5	

any claim, including those of negligence and any other cause whatsoever (not be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable statute of limitations period).¹⁴ Cardinal disclaims any and all liability for consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder. ¹⁵ Cardinal disclaims any and all liability for consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder.

Reinquinshed By

Relinquished By

Delivered By: (Circle One)

Sampler - UPS - Bus - Other;

FORM-0000-A-3.4 07/11/25

BILL TO
P.O. #:

[illegible]

P.O. #

Company:

Attn:

Address: _____

city:

17

File #

PRESEBY

CAMPBELL INNOVATIONS

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PH
Chlorides
BTX

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address

REMARKS:

Turnaround Time:

Correction Factor 0°C

Standard
Rush

☐ ☒

Bacteria (only)	Sample Condition	Intact	Observed Temperature
Cool			

Bacteria (only)
Cool Intact

<input type="checkbox"/>	Yes	<input type="checkbox"/>	Yes
<input type="checkbox"/>	No	<input type="checkbox"/>	No

Completed Training 60

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>NTCE</u> Project Manager: <u>Beth Hinkel</u> Address: <u>209 W. Melway</u> City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u> Phone #: <u>432-824-8896</u> Fax #: _____ Project #: <u>237778</u> Project Owner: <u>Eaststone</u> Project Location: <u>East County</u> Sampler Name: <u>W. Hinkel</u>		BILL TO P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D. <u>H336437</u> Sample I.D. <u>CS-48 (3)</u> <u>SW-1 (0-7) *</u> <u>SW-2 (0-4) *</u> <u>SW-3 (0-4)</u> <u>SW-4 (0-4)</u> <u>SW-5 (0-7)</u> <u>SW-6 (0-7)</u> <u>SW-7 (0-7)</u> <u>SW-8 (0-7)</u> <u>SW-9 (0-3)</u>		MATRIX (G)RAB OR (C)OMP _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL <u>X</u> OIL _____ SLUDGE _____ OTHER _____ ACID/BASE _____ ICE / COOL _____ OTHER _____	
DATE <u>11-29</u> TIME <u>10:30</u> PREPARED BY _____ SAMPLING _____		ANALYSIS REQUEST <u>PH</u> <u>Chlorides</u> <u>BTEX</u>	

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Relinquished By: [Signature] **Date:** 11-29 **Received By:** [Signature]
Time: 3:59
Date: 11-29-23 **Received By:** [Signature]
Time: 16:11

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
 Observed Temp. °C 0.1°C
 Corrected Temp. °C _____

Sample Condition
 Cool ☒ Intact ☐
 Yes ☐ No ☐
 Yes ☐ No ☐

CHECKED BY: [Signature] **(Initials)** [Signature]

Turnaround Time: _____
 Thermometer I/D #140 _____
 Correction Factor 0°C _____

Standard ☒ **Bacteria (only)** ☐
 Cool ☐ Intact ☐
 Yes ☐ No ☐
 Yes ☐ No ☐

Observed Temp. °C _____
Corrected Temp. °C _____

REMARKS: * depth change on #33 (SW-2(0-7))
see email 11-30-23 CH

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:** _____
All Results are emailed. Please provide Email address: _____

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTE		BILL TO		ANALYSIS REQUEST													
Project Manager: Becky Hsckel		P.O. #:		Company:													
Address: 269 W Melway		Attn:		Address:													
City: Carlsbad		State: NM		City:													
Phone #: 432 924 896		Fax #:		Address:													
Project #: 237778		Project Owner: Eaststone		City:													
Project Location: Cerro Ridge		State:		Zip:													
Sample Name: 44 Rockmill		Phone #:		Zip:													
FOR LAB USE ONLY		Fax #:															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	PH	Chlorides	BTEX						
H34437	SW-20 (4-7)	✓	1	GROUNDWATER	✓	11-29	11:30										
51	SW-21 (0-4)			WASTEWATER													
52	SW-22 (4-6)			SOIL													
53	SW-23 (4-6)			OIL													
54	SW-24 (4-6)			SLUDGE													
55	SW-25 (4-7)			OTHER													
56	SW-26 (4-7)			ACID/BASE													
57	SW-27 (4-7)			ICE / COOL													
58	SW-27 (4-7)			OTHER													
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Relinquished By: [Signature]		Date: 1-29		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS: ** Customer requested Depth changes. 40.1/5/24							
Relinquished By: [Signature]		Date: 1-29		Received By: [Signature]		All Results are emailed. Please provide Email address:											
Delivered By: (Circle One)		Observed Temp. °C: -0.1°C		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: [Signature]		Turnaround Time:		Standard: <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C							
Sampler: UPS - Bus - Other:		Corrected Temp. °C:		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140		Correction Factor 0°C		Observed Temp. °C							

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

January 08, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GRAMA RIDGE

Enclosed are the results of analyses for samples received by the laboratory on 12/15/23 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS - 1 A (8)	H236696-01	Soil	15-Dec-23 09:00	15-Dec-23 14:00
CS - 8 A (8)	H236696-02	Soil	15-Dec-23 09:00	15-Dec-23 14:00
CS - 9 A (8)	H236696-03	Soil	15-Dec-23 09:00	15-Dec-23 14:00
CS - 13 A (8)	H236696-04	Soil	15-Dec-23 09:00	15-Dec-23 14:00
CS - 14 A (8)	H236696-05	Soil	15-Dec-23 09:00	15-Dec-23 14:00
CS - 17 A (7)	H236696-06	Soil	15-Dec-23 09:00	15-Dec-23 14:00
CS - 21 A (2)	H236696-07	Soil	15-Dec-23 09:00	15-Dec-23 14:00
CS - 22 A (2)	H236696-08	Soil	15-Dec-23 09:00	15-Dec-23 14:00
CS - 30 A (9)	H236696-09	Soil	15-Dec-23 09:00	15-Dec-23 14:00
CS - 45 A (7)	H236696-10	Soil	15-Dec-23 09:00	15-Dec-23 14:00
CS - 49 (1)	H236696-11	Soil	15-Dec-23 09:30	15-Dec-23 14:00
CS - 50 (8)	H236696-12	Soil	15-Dec-23 09:30	15-Dec-23 14:00
CS - 52 (4')	H236696-13	Soil	15-Dec-23 09:30	15-Dec-23 14:00
CS - 53 (7)	H236696-14	Soil	15-Dec-23 09:30	15-Dec-23 14:00
SW - 10 A (3'-7')	H236696-15	Soil	15-Dec-23 09:30	15-Dec-23 14:00
SW - 11 A (3-8)	H236696-16	Soil	15-Dec-23 09:30	15-Dec-23 14:00
SW - 12 A (0-2)	H236696-17	Soil	15-Dec-23 09:30	15-Dec-23 14:00
SW - 14 A (1-8)	H236696-18	Soil	15-Dec-23 09:30	15-Dec-23 14:00
SW - 19 A (7-9)	H236696-19	Soil	15-Dec-23 09:30	15-Dec-23 14:00
SW - 20 A (4-9)	H236696-20	Soil	15-Dec-23 09:30	15-Dec-23 14:00
SW - 24 A (4-7)	H236696-21	Soil	15-Dec-23 10:00	15-Dec-23 14:00
SW - 28 (0-9)	H236696-22	Soil	15-Dec-23 10:00	15-Dec-23 14:00
SW - 29 (7-9)	H236696-23	Soil	15-Dec-23 10:00	15-Dec-23 14:00
SW - 30 (6-9)	H236696-24	Soil	15-Dec-23 10:00	15-Dec-23 14:00
SW - 31 A (0-4)	H236696-25	Soil	15-Dec-23 10:00	15-Dec-23 14:00
SW - 32 (0-1)	H236696-26	Soil	15-Dec-23 10:00	15-Dec-23 14:00
SW - 33 (1-2)	H236696-27	Soil	15-Dec-23 10:00	15-Dec-23 14:00

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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:Reported:
08-Jan-24 15:23

SW - 35 (6-7)	H236696-28	Soil	15-Dec-23 10:00	15-Dec-23 14:00
SW - 36 (7-8)	H236696-29	Soil	15-Dec-23 10:00	15-Dec-23 14:00
SW - 37 (7-8)	H236696-30	Soil	15-Dec-23 10:00	15-Dec-23 14:00
SW - 38 (3-7)	H236696-31	Soil	15-Dec-23 10:30	15-Dec-23 14:00

01/08/24 - Client requested sample ID changes to -13 and -15 (see COC). This is the revised report and will replace the one sent on 12/19/23.

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A handwritten signature in cursive script, reading "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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 1 A (8)
H236696-01 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	3121809	HM	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134 3121516 JH/ 18-Dec-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	34.1		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

Surrogate: 1-Chlorooctane 102 % 48.2-134 3121517 MS 18-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 114 % 49.1-148 3121517 MS 18-Dec-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 8 A (8)
H236696-02 (Soil)

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

Chloride	16.0		16.0	mg/kg	4	3121809	HM	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			79.5 %		48.2-134	3121517	MS	18-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			88.6 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 9 A (8)
H236696-03 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	3121809	HM	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

Surrogate: 1-Chlorooctane			84.6 %	48.2-134		3121517	MS	18-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			94.0 %	49.1-148		3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 13 A (8)
H236696-04 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	3121809	HM	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	19.7		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			75.2 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.4 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 14 A (8)
H236696-05 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	15.1		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

Surrogate: 1-Chlorooctane			79.5 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			86.8 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 17 A (7)
H236696-06 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.1 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			87.7 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 21 A (2)
H236696-07 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.2 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.5 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 22 A (2)
H236696-08 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.0 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.6 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 30 A (9)
H236696-09 (Soil)

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

Chloride	160		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

Surrogate: 1-Chlorooctane			81.7 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			88.8 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 45 A (7)
H236696-10 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.7 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.6 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 49 (1)
H236696-11 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			73.8 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			80.0 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 50 (8)
H236696-12 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	13.7		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.9 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.4 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 52 (4')
H236696-13 (Soil)

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

Chloride	1410		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134 3121516 JH/ 18-Dec-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

Surrogate: 1-Chlorooctane 77.0 % 48.2-134 3121517 MS 18-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148 3121517 MS 18-Dec-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

CS - 53 (7)
H236696-14 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	401		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			79.4 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.1 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 10 A (3'-7')**H236696-15 (Soil)**

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

Chloride	176		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134 3121516 JH/ 18-Dec-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

Surrogate: 1-Chlorooctane 77.0 % 48.2-134 3121517 MS 18-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148 3121517 MS 18-Dec-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 11 A (3-8)**H236696-16 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

Surrogate: 1-Chlorooctane			73.7 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			77.9 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 12 A (0-2)**H236696-17 (Soil)**

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

Chloride	144		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

Surrogate: 1-Chlorooctane			72.4 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			76.1 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 14 A (1-8)**H236696-18 (Soil)**

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

Chloride	80.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	18.2		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

Surrogate: 1-Chlorooctane			79.4 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			84.4 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 19 A (7-9)**H236696-19 (Soil)**

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

Chloride	80.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

Surrogate: 1-Chlorooctane			78.7 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			83.5 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 20 A (4-9)**H236696-20 (Soil)**

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

Chloride	384		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121516	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121516	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	3121516	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121517	MS	18-Dec-23	8015B	

Surrogate: 1-Chlorooctane			77.3 %		48.2-134	3121517	MS	18-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			81.6 %		49.1-148	3121517	MS	18-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 24 A (4-7)**H236696-21 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121801	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	71.5-134		3121801	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	

Surrogate: 1-Chlorooctane			94.9 %	48.2-134		3121526	MS	19-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			92.1 %	49.1-148		3121526	MS	19-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 28 (0-9)
H236696-22 (Soil)

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

Chloride	1310		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121801	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		71.5-134	3121801	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.5 %		48.2-134	3121526	MS	19-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.9 %		49.1-148	3121526	MS	19-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 29 (7-9)
H236696-23 (Soil)

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

Chloride	160		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121801	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %		71.5-134	3121801	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	

Surrogate: 1-Chlorooctane			90.7 %		48.2-134	3121526	MS	19-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			87.8 %		49.1-148	3121526	MS	19-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 30 (6-9)
H236696-24 (Soil)

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

Chloride	432		16.0	mg/kg	4	3121810	AC	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121801	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134 3121801 JH/ 18-Dec-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
DRO >C10-C28*	23.8		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	

Surrogate: 1-Chlorooctane 93.5 % 48.2-134 3121526 MS 19-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148 3121526 MS 19-Dec-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 31 A (0-4)**H236696-25 (Soil)**

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

Chloride	512		16.0	mg/kg	4	3121825	HM	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121801	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %		71.5-134	3121801	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	

Surrogate: 1-Chlorooctane			96.8 %		48.2-134	3121526	MS	19-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			93.2 %		49.1-148	3121526	MS	19-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 32 (0-1)
H236696-26 (Soil)

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

Chloride	224		16.0	mg/kg	4	3121825	HM	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121801	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			117 %		71.5-134	3121801	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121526	MS	19-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.4 %		48.2-134	3121526	MS	19-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.2 %		49.1-148	3121526	MS	19-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 33 (1-2)
H236696-27 (Soil)

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

Chloride	144		16.0	mg/kg	4	3121825	HM	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121801	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		71.5-134	3121801	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.7 %		48.2-134	3121904	MS	19-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.7 %		49.1-148	3121904	MS	19-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 35 (6-7)
H236696-28 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	3121825	HM	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121801	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		71.5-134	3121801	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.7 %		48.2-134	3121904	MS	19-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.2 %		49.1-148	3121904	MS	19-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 36 (7-8)
H236696-29 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	3121825	HM	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121801	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			117 %	71.5-134		3121801	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			106 %	48.2-134		3121904	MS	19-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			115 %	49.1-148		3121904	MS	19-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 37 (7-8)
H236696-30 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	3121825	HM	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121801	JH/	18-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134 3121801 JH/ 18-Dec-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	

Surrogate: 1-Chlorooctane 87.0 % 48.2-134 3121904 MS 19-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148 3121904 MS 19-Dec-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

SW - 38 (3-7)
H236696-31 (Soil)

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

Chloride	272		16.0	mg/kg	4	3121825	HM	18-Dec-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121801	JH/	18-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121801	JH/	18-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			117 %		71.5-134	3121801	JH/	18-Dec-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121904	MS	19-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.3 %		48.2-134	3121904	MS	19-Dec-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		49.1-148	3121904	MS	19-Dec-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3121809 - 1:4 DI Water**Blank (3121809-BLK1)**

Prepared & Analyzed: 18-Dec-23

Chloride	ND	16.0	mg/kg							
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LCS (3121809-BS1)

Prepared & Analyzed: 18-Dec-23

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (3121809-BSD1)

Prepared & Analyzed: 18-Dec-23

Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	
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Batch 3121810 - 1:4 DI Water**Blank (3121810-BLK1)**

Prepared & Analyzed: 18-Dec-23

Chloride	ND	16.0	mg/kg							
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LCS (3121810-BS1)

Prepared & Analyzed: 18-Dec-23

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (3121810-BSD1)

Prepared & Analyzed: 18-Dec-23

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Batch 3121825 - 1:4 DI Water**Blank (3121825-BLK1)**

Prepared & Analyzed: 18-Dec-23

Chloride	ND	16.0	mg/kg							
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LCS (3121825-BS1)

Prepared & Analyzed: 18-Dec-23

Chloride	432	16.0	mg/kg	400		108	80-120			
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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3121825 - 1:4 DI Water**LCS Dup (3121825-BSD1)**

Prepared & Analyzed: 18-Dec-23

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3121516 - Volatiles**Blank (3121516-BLK1)**

Prepared: 15-Dec-23 Analyzed: 18-Dec-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0562		mg/kg	0.0500		112	71.5-134			

LCS (3121516-BS1)

Prepared: 15-Dec-23 Analyzed: 18-Dec-23

Benzene	1.64	0.050	mg/kg	2.00		81.9	82.8-130			BS-3
Toluene	1.66	0.050	mg/kg	2.00		83.0	86-128			BS-3
Ethylbenzene	1.67	0.050	mg/kg	2.00		83.4	85.9-128			BS-3
m,p-Xylene	3.29	0.100	mg/kg	4.00		82.2	89-129			BS-3
o-Xylene	1.62	0.050	mg/kg	2.00		81.0	86.1-125			BS-3
Total Xylenes	4.91	0.150	mg/kg	6.00		81.8	88.2-128			BS-3
Surrogate: 4-Bromofluorobenzene (PID)	0.0536		mg/kg	0.0500		107	71.5-134			BS-3

LCS Dup (3121516-BSD1)

Prepared: 15-Dec-23 Analyzed: 18-Dec-23

Benzene	2.02	0.050	mg/kg	2.00		101	82.8-130	20.9	15.8	QR-04
Toluene	2.03	0.050	mg/kg	2.00		101	86-128	20.0	15.9	QR-04
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	85.9-128	19.1	16	QR-04
m,p-Xylene	3.99	0.100	mg/kg	4.00		99.9	89-129	19.4	16.2	QR-04
o-Xylene	1.96	0.050	mg/kg	2.00		98.2	86.1-125	19.2	16.7	QR-04
Total Xylenes	5.96	0.150	mg/kg	6.00		99.3	88.2-128	19.3	16.3	QR-04
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

Batch 3121801 - Volatiles**Blank (3121801-BLK1)**

Prepared & Analyzed: 18-Dec-23

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

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3121801 - Volatiles**Blank (3121801-BLK1)**

Prepared & Analyzed: 18-Dec-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0583		mg/kg	0.0500		117	71.5-134			

LCS (3121801-BS1)

Prepared & Analyzed: 18-Dec-23

Benzene	1.59	0.050	mg/kg	2.00		79.6	82.8-130			BS-3
Toluene	1.67	0.050	mg/kg	2.00		83.3	86-128			BS-3
Ethylbenzene	1.67	0.050	mg/kg	2.00		83.3	85.9-128			BS-3
m,p-Xylene	3.40	0.100	mg/kg	4.00		85.0	89-129			BS-3
o-Xylene	1.61	0.050	mg/kg	2.00		80.6	86.1-125			BS-3
Total Xylenes	5.01	0.150	mg/kg	6.00		83.6	88.2-128			BS-3
Surrogate: 4-Bromofluorobenzene (PID)	0.0559		mg/kg	0.0500		112	71.5-134			

LCS Dup (3121801-BSD1)

Prepared & Analyzed: 18-Dec-23

Benzene	1.93	0.050	mg/kg	2.00		96.6	82.8-130	19.3	15.8	QR-02
Toluene	2.00	0.050	mg/kg	2.00		100	86-128	18.4	15.9	QR-02
Ethylbenzene	2.03	0.050	mg/kg	2.00		102	85.9-128	19.9	16	QR-02
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	89-129	19.1	16.2	QR-02
o-Xylene	2.00	0.050	mg/kg	2.00		100	86.1-125	21.6	16.7	QR-02
Total Xylenes	6.12	0.150	mg/kg	6.00		102	88.2-128	19.9	16.3	QR-02
Surrogate: 4-Bromofluorobenzene (PID)	0.0557		mg/kg	0.0500		111	71.5-134			

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3121517 - General Prep - Organics**Blank (3121517-BLK1)**

Prepared: 15-Dec-23 Analyzed: 18-Dec-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.1		mg/kg	50.0		90.1	48.2-134			
Surrogate: 1-Chlorooctadecane	48.6		mg/kg	50.0		97.2	49.1-148			

LCS (3121517-BS1)

Prepared: 15-Dec-23 Analyzed: 18-Dec-23

GRO C6-C10	218	10.0	mg/kg	200		109	66.4-123			
DRO >C10-C28	202	10.0	mg/kg	200		101	66.5-118			
Total TPH C6-C28	421	10.0	mg/kg	400		105	77.6-123			
Surrogate: 1-Chlorooctane	55.5		mg/kg	50.0		111	48.2-134			
Surrogate: 1-Chlorooctadecane	57.1		mg/kg	50.0		114	49.1-148			

LCS Dup (3121517-BS1)

Prepared: 15-Dec-23 Analyzed: 18-Dec-23

GRO C6-C10	210	10.0	mg/kg	200		105	66.4-123	3.86	17.7	
DRO >C10-C28	197	10.0	mg/kg	200		98.3	66.5-118	2.91	21	
Total TPH C6-C28	407	10.0	mg/kg	400		102	77.6-123	3.40	18.5	
Surrogate: 1-Chlorooctane	48.9		mg/kg	50.0		97.8	48.2-134			
Surrogate: 1-Chlorooctadecane	49.9		mg/kg	50.0		99.8	49.1-148			

Batch 3121526 - General Prep - Organics**Blank (3121526-BLK1)**

Prepared: 15-Dec-23 Analyzed: 19-Dec-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	51.0		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0		97.0	49.1-148			

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3121526 - General Prep - Organics**LCS (3121526-BS1)**

Prepared: 15-Dec-23 Analyzed: 19-Dec-23

GRO C6-C10	206	10.0	mg/kg	200		103	66.4-123		
DRO >C10-C28	201	10.0	mg/kg	200		100	66.5-118		
Total TPH C6-C28	406	10.0	mg/kg	400		102	77.6-123		
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	48.2-134		
Surrogate: 1-Chlorooctadecane	50.0		mg/kg	50.0		100	49.1-148		

LCS Dup (3121526-BS1)

Prepared: 15-Dec-23 Analyzed: 19-Dec-23

GRO C6-C10	213	10.0	mg/kg	200		106	66.4-123	3.37	17.7
DRO >C10-C28	211	10.0	mg/kg	200		105	66.5-118	4.99	21
Total TPH C6-C28	423	10.0	mg/kg	400		106	77.6-123	4.18	18.5
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	48.2-134		
Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	49.1-148		

Batch 3121904 - General Prep - Organics**Blank (3121904-BLK1)**

Prepared & Analyzed: 19-Dec-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.5	48.2-134		
Surrogate: 1-Chlorooctadecane	52.6		mg/kg	50.0		105	49.1-148		

LCS (3121904-BS1)

Prepared & Analyzed: 19-Dec-23

GRO C6-C10	164	10.0	mg/kg	200		81.9	66.4-123		
DRO >C10-C28	175	10.0	mg/kg	200		87.6	66.5-118		
Total TPH C6-C28	339	10.0	mg/kg	400		84.7	77.6-123		
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	48.2-134		
Surrogate: 1-Chlorooctadecane	52.9		mg/kg	50.0		106	49.1-148		

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237863
Project Manager: BECKY HASKELL
Fax To:

Reported:
08-Jan-24 15:23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 3121904 - General Prep - Organics**LCS Dup (3121904-BSD1)**

Prepared & Analyzed: 19-Dec-23

GRO C6-C10	174	10.0	mg/kg	200		87.0	66.4-123	5.97	17.7	
DRO >C10-C28	181	10.0	mg/kg	200		90.4	66.5-118	3.22	21	
Total TPH C6-C28	355	10.0	mg/kg	400		88.7	77.6-123	4.56	18.5	
Surrogate: 1-Chlorooctane	52.3		mg/kg	50.0		105	48.2-134			
Surrogate: 1-Chlorooctadecane	53.3		mg/kg	50.0		107	49.1-148			

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



ANALYSIS REQUEST

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**BILL TO**

ANALYSIS REQUEST

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Kindley
NT Global

701 Tradewinds Blvd
Midland, Texas 79706

Generated 1/3/2024 11:33:25 AM

JOB DESCRIPTION

Earthstone GRAMA RIDGE 34 STATE 3BS #005H
Lea County NM

JOB NUMBER

890-5861-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/3/2024 11:33:25 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Laboratory Job ID: 890-5861-1
SDG: Lea County NM

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Definitions/Glossary

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: NT Global
Project: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1

Job ID: 890-5861-1

Eurofins Carlsbad

Job Narrative 890-5861-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 12/29/2023 2:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-6A (0-8') (890-5861-1), SW-48 (0-8') (890-5861-2), SW-34 (7-8') (890-5861-3), SW-43 (0-10') (890-5861-4), SW-47 (0-10') (890-5861-5), SW-46 (6-10') (890-5861-6), CS-53A (10') (890-5861-7), SW-3A (4-6') (890-5861-8), SW-45 (0-6') (890-5861-9), CS-52A (6') (890-5861-10), SW-44 (0-6') (890-5861-11), SW-41 (2-3') (890-5861-12), SW-5A (8-10') (890-5861-13), SW-40 (3-9') (890-5861-14), SW-39 (0-7') (890-5861-15) and SW-42 (1-3') (890-5861-16).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-6A (0-8') (890-5861-1) and SW-3A (4-6') (890-5861-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70027 and analytical batch 880-70003 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Carlsbad

Client Sample Results

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Client Sample ID: SW-6A (0-8')

Lab Sample ID: 890-5861-1

Date Collected: 12/29/23 10:00

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/02/24 22:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/02/24 22:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/02/24 22:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/02/24 22:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/02/24 22:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/02/24 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/02/24 14:53	01/02/24 22:28	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/02/24 14:53	01/02/24 22:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/02/24 22:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	681		49.8		mg/Kg			01/02/24 20:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/02/24 09:44	01/02/24 20:42	1
Diesel Range Organics (Over C10-C28)	681	F1	49.8		mg/Kg		01/02/24 09:44	01/02/24 20:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/02/24 09:44	01/02/24 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	01/02/24 09:44	01/02/24 20:42	1
o-Terphenyl	136	S1+	70 - 130	01/02/24 09:44	01/02/24 20:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		4.98		mg/Kg			01/02/24 18:11	1

Client Sample ID: SW-48 (0-8')

Lab Sample ID: 890-5861-2

Date Collected: 12/29/23 10:05

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 22:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 22:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 22:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/02/24 14:53	01/02/24 22:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 22:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/02/24 14:53	01/02/24 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/02/24 14:53	01/02/24 22:49	1
1,4-Difluorobenzene (Surr)	84		70 - 130	01/02/24 14:53	01/02/24 22:49	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Client Sample ID: SW-48 (0-8')

Lab Sample ID: 890-5861-2

Date Collected: 12/29/23 10:05

Matrix: Solid

Date Received: 12/29/23 14:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/02/24 22:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	128		50.1		mg/Kg			01/02/24 21:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/02/24 09:44	01/02/24 21:47	1
Diesel Range Organics (Over C10-C28)	128		50.1		mg/Kg		01/02/24 09:44	01/02/24 21:47	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/02/24 09:44	01/02/24 21:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				01/02/24 09:44	01/02/24 21:47	1
o-Terphenyl	113		70 - 130				01/02/24 09:44	01/02/24 21:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	741		4.95		mg/Kg			01/02/24 18:17	1

Client Sample ID: SW-34 (7-8')

Lab Sample ID: 890-5861-3

Date Collected: 12/29/23 10:10

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 23:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 23:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 23:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/02/24 14:53	01/02/24 23:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 23:09	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/02/24 14:53	01/02/24 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				01/02/24 14:53	01/02/24 23:09	1
1,4-Difluorobenzene (Surr)	85		70 - 130				01/02/24 14:53	01/02/24 23:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/02/24 23:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	119		50.5		mg/Kg			01/02/24 22:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/02/24 09:44	01/02/24 22:09	1
Diesel Range Organics (Over C10-C28)	119		50.5		mg/Kg		01/02/24 09:44	01/02/24 22:09	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Client Sample ID: SW-34 (7-8')

Lab Sample ID: 890-5861-3

Date Collected: 12/29/23 10:10

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/02/24 09:44	01/02/24 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				01/02/24 09:44	01/02/24 22:09	1
o-Terphenyl	117		70 - 130				01/02/24 09:44	01/02/24 22:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		4.97		mg/Kg			01/02/24 18:22	1

Client Sample ID: SW-43 (0-10')

Lab Sample ID: 890-5861-4

Date Collected: 12/29/23 10:15

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/02/24 23:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/02/24 23:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/02/24 23:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/02/24 14:53	01/02/24 23:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/02/24 23:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/02/24 14:53	01/02/24 23:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				01/02/24 14:53	01/02/24 23:30	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/02/24 14:53	01/02/24 23:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/02/24 23:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1470		50.1		mg/Kg			01/02/24 22:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/02/24 09:44	01/02/24 22:31	1
Diesel Range Organics (Over C10-C28)	1470		50.1		mg/Kg		01/02/24 09:44	01/02/24 22:31	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/02/24 09:44	01/02/24 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				01/02/24 09:44	01/02/24 22:31	1
o-Terphenyl	124		70 - 130				01/02/24 09:44	01/02/24 22:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.6		4.95		mg/Kg			01/02/24 18:27	1

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Client Sample Results

Client: NT Global

Job ID: 890-5861-1

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

SDG: Lea County NM

Client Sample ID: SW-47 (0-10')

Lab Sample ID: 890-5861-5

Date Collected: 12/29/23 10:20

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/02/24 23:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/02/24 23:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/02/24 23:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/02/24 23:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/02/24 23:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/02/24 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/02/24 14:53	01/02/24 23:50	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/02/24 14:53	01/02/24 23:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/02/24 23:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.3		50.2		mg/Kg			01/02/24 22:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/02/24 09:44	01/02/24 22:53	1
Diesel Range Organics (Over C10-C28)	68.3		50.2		mg/Kg		01/02/24 09:44	01/02/24 22:53	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/02/24 09:44	01/02/24 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	01/02/24 09:44	01/02/24 22:53	1
o-Terphenyl	112		70 - 130	01/02/24 09:44	01/02/24 22:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	273		5.01		mg/Kg			01/02/24 18:42	1

Client Sample ID: SW-46 (6-10')

Lab Sample ID: 890-5861-6

Date Collected: 12/29/23 10:25

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 00:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 00:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 00:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/03/24 00:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 00:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/03/24 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/02/24 14:53	01/03/24 00:11	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/02/24 14:53	01/03/24 00:11	1

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Client Sample Results

Client: NT Global

Job ID: 890-5861-1

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

SDG: Lea County NM

Client Sample ID: SW-46 (6-10')

Lab Sample ID: 890-5861-6

Date Collected: 12/29/23 10:25

Matrix: Solid

Date Received: 12/29/23 14:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/03/24 00:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1960		50.5		mg/Kg			01/02/24 23:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/02/24 09:44	01/02/24 23:15	1
Diesel Range Organics (Over C10-C28)	1960		50.5		mg/Kg		01/02/24 09:44	01/02/24 23:15	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/02/24 09:44	01/02/24 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				01/02/24 09:44	01/02/24 23:15	1
o-Terphenyl	122		70 - 130				01/02/24 09:44	01/02/24 23:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	311		5.02		mg/Kg			01/02/24 18:48	1

Client Sample ID: CS-53A (10')

Lab Sample ID: 890-5861-7

Date Collected: 12/29/23 10:30

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 00:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 00:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 00:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/02/24 14:53	01/03/24 00:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 00:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/02/24 14:53	01/03/24 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				01/02/24 14:53	01/03/24 00:32	1
1,4-Difluorobenzene (Surr)	84		70 - 130				01/02/24 14:53	01/03/24 00:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/03/24 00:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	111		50.2		mg/Kg			01/02/24 23:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/02/24 09:44	01/02/24 23:36	1
Diesel Range Organics (Over C10-C28)	111		50.2		mg/Kg		01/02/24 09:44	01/02/24 23:36	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Client Sample ID: CS-53A (10')
Date Collected: 12/29/23 10:30
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/02/24 09:44	01/02/24 23:36	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	122		70 - 130				01/02/24 09:44	01/02/24 23:36	1	
o-Terphenyl	126		70 - 130				01/02/24 09:44	01/02/24 23:36	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	11.1		5.05		mg/Kg			01/02/24 18:53	1	

Client Sample ID: SW-3A (4-6')
Date Collected: 12/29/23 10:35
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/03/24 00:52	1	
Toluene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/03/24 00:52	1	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/03/24 00:52	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/02/24 14:53	01/03/24 00:52	1	
o-Xylene	0.00322		0.00201		mg/Kg		01/02/24 14:53	01/03/24 00:52	1	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/02/24 14:53	01/03/24 00:52	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		70 - 130				01/02/24 14:53	01/03/24 00:52	1	
1,4-Difluorobenzene (Surr)	87		70 - 130				01/02/24 14:53	01/03/24 00:52	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/03/24 00:52	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.4	U	50.4		mg/Kg			01/02/24 23:58	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/02/24 09:44	01/02/24 23:58	1	
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/02/24 09:44	01/02/24 23:58	1	
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/02/24 09:44	01/02/24 23:58	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	138	S1+	70 - 130				01/02/24 09:44	01/02/24 23:58	1	
o-Terphenyl	145	S1+	70 - 130				01/02/24 09:44	01/02/24 23:58	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	231		4.99		mg/Kg			01/02/24 18:58	1	

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Client Sample Results

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Client Sample ID: SW-45 (0-6')

Lab Sample ID: 890-5861-9

Date Collected: 12/29/23 10:40

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 01:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 01:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 01:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/02/24 14:53	01/03/24 01:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 01:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/02/24 14:53	01/03/24 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	01/02/24 14:53	01/03/24 01:13	1
1,4-Difluorobenzene (Surr)	76		70 - 130	01/02/24 14:53	01/03/24 01:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/03/24 01:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	152		50.1		mg/Kg			01/03/24 00:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/02/24 09:44	01/03/24 00:20	1
Diesel Range Organics (Over C10-C28)	152		50.1		mg/Kg		01/02/24 09:44	01/03/24 00:20	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/02/24 09:44	01/03/24 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	01/02/24 09:44	01/03/24 00:20	1
o-Terphenyl	112		70 - 130	01/02/24 09:44	01/03/24 00:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		25.3		mg/Kg			01/02/24 19:03	5

Client Sample ID: CS-52A (6')

Lab Sample ID: 890-5861-10

Date Collected: 12/29/23 10:45

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 01:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 01:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 01:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/03/24 01:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 01:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/03/24 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	01/02/24 14:53	01/03/24 01:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130	01/02/24 14:53	01/03/24 01:33	1

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Client Sample Results

Client: NT Global

Job ID: 890-5861-1

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

SDG: Lea County NM

Client Sample ID: CS-52A (6')

Lab Sample ID: 890-5861-10

Date Collected: 12/29/23 10:45

Matrix: Solid

Date Received: 12/29/23 14:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/03/24 01:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/03/24 00:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/02/24 09:44	01/03/24 00:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/02/24 09:44	01/03/24 00:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/02/24 09:44	01/03/24 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				01/02/24 09:44	01/03/24 00:42	1
o-Terphenyl	110		70 - 130				01/02/24 09:44	01/03/24 00:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		5.01		mg/Kg			01/02/24 19:08	1

Client Sample ID: SW-44 (0-6')

Lab Sample ID: 890-5861-11

Date Collected: 12/29/23 10:50

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 02:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 02:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 02:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/03/24 02:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 02:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/03/24 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				01/02/24 14:53	01/03/24 02:57	1
1,4-Difluorobenzene (Surr)	79		70 - 130				01/02/24 14:53	01/03/24 02:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/03/24 02:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/03/24 01:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/02/24 09:44	01/03/24 01:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/02/24 09:44	01/03/24 01:25	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Client Sample ID: SW-44 (0-6')
Date Collected: 12/29/23 10:50
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-11
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/02/24 09:44	01/03/24 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				01/02/24 09:44	01/03/24 01:25	1
o-Terphenyl	119		70 - 130				01/02/24 09:44	01/03/24 01:25	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11400		99.8		mg/Kg			01/02/24 19:24	20

Client Sample ID: SW-41 (2-3')
Date Collected: 12/29/23 10:55
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 03:17	1	
Toluene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 03:17	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 03:17	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/03/24 03:17	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 03:17	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/03/24 03:17	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	110		70 - 130				01/02/24 14:53	01/03/24 03:17	1	
1,4-Difluorobenzene (Surr)	80		70 - 130				01/02/24 14:53	01/03/24 03:17	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/03/24 03:17	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	125		49.7		mg/Kg			01/03/24 01:47	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/02/24 09:44	01/03/24 01:47	1	
Diesel Range Organics (Over C10-C28)	125		49.7		mg/Kg		01/02/24 09:44	01/03/24 01:47	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/02/24 09:44	01/03/24 01:47	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	114		70 - 130				01/02/24 09:44	01/03/24 01:47	1	
o-Terphenyl	124		70 - 130				01/02/24 09:44	01/03/24 01:47	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	867		24.9		mg/Kg			01/02/24 19:29	5	

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Client Sample Results

Client: NT Global

Job ID: 890-5861-1

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

SDG: Lea County NM

Client Sample ID: SW-5A (8-10')

Lab Sample ID: 890-5861-13

Date Collected: 12/29/23 11:05

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 03:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 03:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 03:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/02/24 14:53	01/03/24 03:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/03/24 03:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/02/24 14:53	01/03/24 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/02/24 14:53	01/03/24 03:38	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/02/24 14:53	01/03/24 03:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/03/24 03:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1800		49.8		mg/Kg			01/03/24 02:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/02/24 09:44	01/03/24 02:09	1
Diesel Range Organics (Over C10-C28)	1800		49.8		mg/Kg		01/02/24 09:44	01/03/24 02:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/02/24 09:44	01/03/24 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	01/02/24 09:44	01/03/24 02:09	1
o-Terphenyl	115		70 - 130	01/02/24 09:44	01/03/24 02:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		4.95		mg/Kg			01/02/24 19:45	1

Client Sample ID: SW-40 (3-9')

Lab Sample ID: 890-5861-14

Date Collected: 12/29/23 11:10

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/03/24 03:59	1
Toluene	0.00371		0.00201		mg/Kg		01/02/24 14:53	01/03/24 03:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/03/24 03:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/02/24 14:53	01/03/24 03:59	1
o-Xylene	0.0163		0.00201		mg/Kg		01/02/24 14:53	01/03/24 03:59	1
Xylenes, Total	0.0163		0.00402		mg/Kg		01/02/24 14:53	01/03/24 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/02/24 14:53	01/03/24 03:59	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/02/24 14:53	01/03/24 03:59	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Client Sample ID: SW-40 (3-9')

Lab Sample ID: 890-5861-14

Date Collected: 12/29/23 11:10

Matrix: Solid

Date Received: 12/29/23 14:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0200		0.00402		mg/Kg			01/03/24 03:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/03/24 02:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/02/24 09:44	01/03/24 02:31	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/02/24 09:44	01/03/24 02:31	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/02/24 09:44	01/03/24 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				01/02/24 09:44	01/03/24 02:31	1
o-Terphenyl	116		70 - 130				01/02/24 09:44	01/03/24 02:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3730		25.0		mg/Kg			01/02/24 19:50	5

Client Sample ID: SW-39 (0-7')

Lab Sample ID: 890-5861-15

Date Collected: 12/29/23 11:15

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/03/24 04:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/03/24 04:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/03/24 04:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/02/24 14:53	01/03/24 04:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/02/24 14:53	01/03/24 04:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/02/24 14:53	01/03/24 04:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				01/02/24 14:53	01/03/24 04:19	1
1,4-Difluorobenzene (Surr)	83		70 - 130				01/02/24 14:53	01/03/24 04:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/03/24 04:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	92.9		50.5		mg/Kg			01/03/24 02:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/02/24 09:44	01/03/24 02:53	1
Diesel Range Organics (Over C10-C28)	92.9		50.5		mg/Kg		01/02/24 09:44	01/03/24 02:53	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Client Sample ID: SW-39 (0-7')

Lab Sample ID: 890-5861-15

Date Collected: 12/29/23 11:15

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/02/24 09:44	01/03/24 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				01/02/24 09:44	01/03/24 02:53	1
o-Terphenyl	114		70 - 130				01/02/24 09:44	01/03/24 02:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3140		24.9		mg/Kg			01/02/24 19:55	5

Client Sample ID: SW-42 (1-3')

Lab Sample ID: 890-5861-16

Date Collected: 12/29/23 11:00

Matrix: Solid

Date Received: 12/29/23 14:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 04:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 04:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 04:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/03/24 04:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/02/24 14:53	01/03/24 04:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/02/24 14:53	01/03/24 04:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				01/02/24 14:53	01/03/24 04:40	1
1,4-Difluorobenzene (Surr)	80		70 - 130				01/02/24 14:53	01/03/24 04:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/03/24 04:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/03/24 03:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		01/02/24 09:44	01/03/24 03:15	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/02/24 09:44	01/03/24 03:15	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/02/24 09:44	01/03/24 03:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				01/02/24 09:44	01/03/24 03:15	1
o-Terphenyl	117		70 - 130				01/02/24 09:44	01/03/24 03:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	341		5.01		mg/Kg			01/02/24 20:00	1

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Surrogate Summary

Client: NT Global

Job ID: 890-5861-1

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5861-1	SW-6A (0-8')	96	90
890-5861-1 MS	SW-6A (0-8')	109	95
890-5861-1 MSD	SW-6A (0-8')	112	103
890-5861-2	SW-48 (0-8')	92	84
890-5861-3	SW-34 (7-8')	97	85
890-5861-4	SW-43 (0-10')	114	90
890-5861-5	SW-47 (0-10')	98	87
890-5861-6	SW-46 (6-10')	108	92
890-5861-7	CS-53A (10')	100	84
890-5861-8	SW-3A (4-6')	100	87
890-5861-9	SW-45 (0-6')	107	76
890-5861-10	CS-52A (6')	94	82
890-5861-11	SW-44 (0-6')	107	79
890-5861-12	SW-41 (2-3')	110	80
890-5861-13	SW-5A (8-10')	119	101
890-5861-14	SW-40 (3-9')	103	91
890-5861-15	SW-39 (0-7')	91	83
890-5861-16	SW-42 (1-3')	113	80
LCS 880-70058/1-A	Lab Control Sample	118	102
LCSD 880-70058/2-A	Lab Control Sample Dup	104	97
MB 880-69922/5-A	Method Blank	91	84
MB 880-70058/5-A	Method Blank	86	83
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5861-1	SW-6A (0-8')	130	136 S1+
890-5861-1 MS	SW-6A (0-8')	128	125
890-5861-1 MSD	SW-6A (0-8')	117	113
890-5861-2	SW-48 (0-8')	113	113
890-5861-3	SW-34 (7-8')	110	117
890-5861-4	SW-43 (0-10')	119	124
890-5861-5	SW-47 (0-10')	105	112
890-5861-6	SW-46 (6-10')	118	122
890-5861-7	CS-53A (10')	122	126
890-5861-8	SW-3A (4-6')	138 S1+	145 S1+
890-5861-9	SW-45 (0-6')	103	112
890-5861-10	CS-52A (6')	102	110
890-5861-11	SW-44 (0-6')	108	119
890-5861-12	SW-41 (2-3')	114	124
890-5861-13	SW-5A (8-10')	109	115
890-5861-14	SW-40 (3-9')	108	116
890-5861-15	SW-39 (0-7')	104	114

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Surrogate Summary

Client: NT Global

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5861-16	SW-42 (1-3')	109	117
LCS 880-70027/2-A	Lab Control Sample	99	120
LCSD 880-70027/3-A	Lab Control Sample Dup	105	126
MB 880-70027/1-A	Method Blank	95	113
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: NT Global

Job ID: 890-5861-1

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-69922/5-A

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/23 15:49	01/02/24 11:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/23 15:49	01/02/24 11:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/23 15:49	01/02/24 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/28/23 15:49	01/02/24 11:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/23 15:49	01/02/24 11:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/28/23 15:49	01/02/24 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	12/28/23 15:49	01/02/24 11:29	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/28/23 15:49	01/02/24 11:29	1

Lab Sample ID: MB 880-70058/5-A

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 22:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 22:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 22:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/02/24 14:53	01/02/24 22:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:53	01/02/24 22:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/02/24 14:53	01/02/24 22:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	01/02/24 14:53	01/02/24 22:07	1
1,4-Difluorobenzene (Surr)	83		70 - 130	01/02/24 14:53	01/02/24 22:07	1

Lab Sample ID: LCS 880-70058/1-A

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09477		mg/Kg		95	70 - 130
Toluene	0.100	0.08769		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09614		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1989		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1156		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-70058/2-A

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70058

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08774		mg/Kg		88	70 - 130	8	35

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QC Sample Results

Client: NT Global

Job ID: 890-5861-1

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-70058/2-A

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70058

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.08310		mg/Kg		83	70 - 130		5	35
Ethylbenzene	0.100	0.09512		mg/Kg		95	70 - 130		1	35
m-Xylene & p-Xylene	0.200	0.1904		mg/Kg		95	70 - 130		4	35
o-Xylene	0.100	0.09664		mg/Kg		97	70 - 130		18	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-5861-1 MS

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: SW-6A (0-8')

Prep Type: Total/NA

Prep Batch: 70058

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00199	U	0.0996	0.08370		mg/Kg		84	70 - 130	
Toluene	<0.00199	U	0.0996	0.07654		mg/Kg		76	70 - 130	
Ethylbenzene	<0.00199	U	0.0996	0.07977		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1587		mg/Kg		80	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.08022		mg/Kg		80	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-5861-1 MSD

Matrix: Solid

Analysis Batch: 70013

Client Sample ID: SW-6A (0-8')

Prep Type: Total/NA

Prep Batch: 70058

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00199	U	0.0990	0.08536		mg/Kg		86	70 - 130		2	35
Toluene	<0.00199	U	0.0990	0.07556		mg/Kg		76	70 - 130		1	35
Ethylbenzene	<0.00199	U	0.0990	0.07824		mg/Kg		79	70 - 130		2	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1561		mg/Kg		79	70 - 130		2	35
o-Xylene	<0.00199	U	0.0990	0.07770		mg/Kg		78	70 - 130		3	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-70027/1-A

Matrix: Solid

Analysis Batch: 70003

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70027

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/02/24 09:44	01/02/24 19:32	1

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QC Sample Results

Client: NT Global

Job ID: 890-5861-1

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-70027/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 70003

Prep Batch: 70027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/02/24 09:44	01/02/24 19:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/02/24 09:44	01/02/24 19:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				01/02/24 09:44	01/02/24 19:32	1
o-Terphenyl	113		70 - 130				01/02/24 09:44	01/02/24 19:32	1

Lab Sample ID: LCS 880-70027/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 70003

Prep Batch: 70027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1060		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	935.5		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	99		70 - 130				
o-Terphenyl	120		70 - 130				

Lab Sample ID: LCSD 880-70027/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 70003

Prep Batch: 70027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1090		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	974.9		mg/Kg		97	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	105		70 - 130						
o-Terphenyl	126		70 - 130						

Lab Sample ID: 890-5861-1 MS

Client Sample ID: SW-6A (0-8')

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 70003

Prep Batch: 70027

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	992	1312		mg/Kg		128	70 - 130
Diesel Range Organics (Over C10-C28)	681	F1	992	1359	F1	mg/Kg		68	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	128		70 - 130						
o-Terphenyl	125		70 - 130						

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QC Sample Results

Client: NT Global

Job ID: 890-5861-1

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-5861-1 MSD

Client Sample ID: SW-6A (0-8')

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 70003

Prep Batch: 70027

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	992	1272		mg/Kg		124	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	681	F1	992	1220	F1	mg/Kg		54	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	117		70 - 130								
o-Terphenyl	113		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70030/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 70035

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			01/02/24 17:41	1

Lab Sample ID: LCS 880-70030/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 70035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	200	209.6		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-70030/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 70035

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD
							Limits	RPD
Chloride	200	208.2		mg/Kg		104	90 - 110	1

Lab Sample ID: 890-5861-10 MS

Client Sample ID: CS-52A (6')

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 70035

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	161		251	411.5		mg/Kg		100	90 - 110

Lab Sample ID: 890-5861-10 MSD

Client Sample ID: CS-52A (6')

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 70035

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Chloride	161		251	409.3		mg/Kg		99	90 - 110	1	20

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QC Association Summary

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

GC VOA

Prep Batch: 69922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-69922/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 70013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5861-1	SW-6A (0-8')	Total/NA	Solid	8021B	70058
890-5861-2	SW-48 (0-8')	Total/NA	Solid	8021B	70058
890-5861-3	SW-34 (7-8')	Total/NA	Solid	8021B	70058
890-5861-4	SW-43 (0-10')	Total/NA	Solid	8021B	70058
890-5861-5	SW-47 (0-10')	Total/NA	Solid	8021B	70058
890-5861-6	SW-46 (6-10')	Total/NA	Solid	8021B	70058
890-5861-7	CS-53A (10')	Total/NA	Solid	8021B	70058
890-5861-8	SW-3A (4-6')	Total/NA	Solid	8021B	70058
890-5861-9	SW-45 (0-6')	Total/NA	Solid	8021B	70058
890-5861-10	CS-52A (6')	Total/NA	Solid	8021B	70058
890-5861-11	SW-44 (0-6')	Total/NA	Solid	8021B	70058
890-5861-12	SW-41 (2-3')	Total/NA	Solid	8021B	70058
890-5861-13	SW-5A (8-10')	Total/NA	Solid	8021B	70058
890-5861-14	SW-40 (3-9')	Total/NA	Solid	8021B	70058
890-5861-15	SW-39 (0-7')	Total/NA	Solid	8021B	70058
890-5861-16	SW-42 (1-3')	Total/NA	Solid	8021B	70058
MB 880-69922/5-A	Method Blank	Total/NA	Solid	8021B	69922
MB 880-70058/5-A	Method Blank	Total/NA	Solid	8021B	70058
LCS 880-70058/1-A	Lab Control Sample	Total/NA	Solid	8021B	70058
LCSD 880-70058/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70058
890-5861-1 MS	SW-6A (0-8')	Total/NA	Solid	8021B	70058
890-5861-1 MSD	SW-6A (0-8')	Total/NA	Solid	8021B	70058

Prep Batch: 70058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5861-1	SW-6A (0-8')	Total/NA	Solid	5035	
890-5861-2	SW-48 (0-8')	Total/NA	Solid	5035	
890-5861-3	SW-34 (7-8')	Total/NA	Solid	5035	
890-5861-4	SW-43 (0-10')	Total/NA	Solid	5035	
890-5861-5	SW-47 (0-10')	Total/NA	Solid	5035	
890-5861-6	SW-46 (6-10')	Total/NA	Solid	5035	
890-5861-7	CS-53A (10')	Total/NA	Solid	5035	
890-5861-8	SW-3A (4-6')	Total/NA	Solid	5035	
890-5861-9	SW-45 (0-6')	Total/NA	Solid	5035	
890-5861-10	CS-52A (6')	Total/NA	Solid	5035	
890-5861-11	SW-44 (0-6')	Total/NA	Solid	5035	
890-5861-12	SW-41 (2-3')	Total/NA	Solid	5035	
890-5861-13	SW-5A (8-10')	Total/NA	Solid	5035	
890-5861-14	SW-40 (3-9')	Total/NA	Solid	5035	
890-5861-15	SW-39 (0-7')	Total/NA	Solid	5035	
890-5861-16	SW-42 (1-3')	Total/NA	Solid	5035	
MB 880-70058/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70058/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70058/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5861-1 MS	SW-6A (0-8')	Total/NA	Solid	5035	
890-5861-1 MSD	SW-6A (0-8')	Total/NA	Solid	5035	

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QC Association Summary

Client: NT Global

Job ID: 890-5861-1

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

SDG: Lea County NM

GC VOA

Analysis Batch: 70124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5861-1	SW-6A (0-8')	Total/NA	Solid	Total BTEX	
890-5861-2	SW-48 (0-8')	Total/NA	Solid	Total BTEX	
890-5861-3	SW-34 (7-8')	Total/NA	Solid	Total BTEX	
890-5861-4	SW-43 (0-10')	Total/NA	Solid	Total BTEX	
890-5861-5	SW-47 (0-10')	Total/NA	Solid	Total BTEX	
890-5861-6	SW-46 (6-10')	Total/NA	Solid	Total BTEX	
890-5861-7	CS-53A (10')	Total/NA	Solid	Total BTEX	
890-5861-8	SW-3A (4-6')	Total/NA	Solid	Total BTEX	
890-5861-9	SW-45 (0-6')	Total/NA	Solid	Total BTEX	
890-5861-10	CS-52A (6')	Total/NA	Solid	Total BTEX	
890-5861-11	SW-44 (0-6')	Total/NA	Solid	Total BTEX	
890-5861-12	SW-41 (2-3')	Total/NA	Solid	Total BTEX	
890-5861-13	SW-5A (8-10')	Total/NA	Solid	Total BTEX	
890-5861-14	SW-40 (3-9')	Total/NA	Solid	Total BTEX	
890-5861-15	SW-39 (0-7')	Total/NA	Solid	Total BTEX	
890-5861-16	SW-42 (1-3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5861-1	SW-6A (0-8')	Total/NA	Solid	8015B NM	70027
890-5861-2	SW-48 (0-8')	Total/NA	Solid	8015B NM	70027
890-5861-3	SW-34 (7-8')	Total/NA	Solid	8015B NM	70027
890-5861-4	SW-43 (0-10')	Total/NA	Solid	8015B NM	70027
890-5861-5	SW-47 (0-10')	Total/NA	Solid	8015B NM	70027
890-5861-6	SW-46 (6-10')	Total/NA	Solid	8015B NM	70027
890-5861-7	CS-53A (10')	Total/NA	Solid	8015B NM	70027
890-5861-8	SW-3A (4-6')	Total/NA	Solid	8015B NM	70027
890-5861-9	SW-45 (0-6')	Total/NA	Solid	8015B NM	70027
890-5861-10	CS-52A (6')	Total/NA	Solid	8015B NM	70027
890-5861-11	SW-44 (0-6')	Total/NA	Solid	8015B NM	70027
890-5861-12	SW-41 (2-3')	Total/NA	Solid	8015B NM	70027
890-5861-13	SW-5A (8-10')	Total/NA	Solid	8015B NM	70027
890-5861-14	SW-40 (3-9')	Total/NA	Solid	8015B NM	70027
890-5861-15	SW-39 (0-7')	Total/NA	Solid	8015B NM	70027
890-5861-16	SW-42 (1-3')	Total/NA	Solid	8015B NM	70027
MB 880-70027/1-A	Method Blank	Total/NA	Solid	8015B NM	70027
LCS 880-70027/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70027
LCSD 880-70027/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70027
890-5861-1 MS	SW-6A (0-8')	Total/NA	Solid	8015B NM	70027
890-5861-1 MSD	SW-6A (0-8')	Total/NA	Solid	8015B NM	70027

Prep Batch: 70027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5861-1	SW-6A (0-8')	Total/NA	Solid	8015NM Prep	
890-5861-2	SW-48 (0-8')	Total/NA	Solid	8015NM Prep	
890-5861-3	SW-34 (7-8')	Total/NA	Solid	8015NM Prep	
890-5861-4	SW-43 (0-10')	Total/NA	Solid	8015NM Prep	
890-5861-5	SW-47 (0-10')	Total/NA	Solid	8015NM Prep	
890-5861-6	SW-46 (6-10')	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: NT Global

Job ID: 890-5861-1

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 70027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5861-7	CS-53A (10')	Total/NA	Solid	8015NM Prep	
890-5861-8	SW-3A (4-6')	Total/NA	Solid	8015NM Prep	
890-5861-9	SW-45 (0-6')	Total/NA	Solid	8015NM Prep	
890-5861-10	CS-52A (6')	Total/NA	Solid	8015NM Prep	
890-5861-11	SW-44 (0-6')	Total/NA	Solid	8015NM Prep	
890-5861-12	SW-41 (2-3')	Total/NA	Solid	8015NM Prep	
890-5861-13	SW-5A (8-10')	Total/NA	Solid	8015NM Prep	
890-5861-14	SW-40 (3-9')	Total/NA	Solid	8015NM Prep	
890-5861-15	SW-39 (0-7')	Total/NA	Solid	8015NM Prep	
890-5861-16	SW-42 (1-3')	Total/NA	Solid	8015NM Prep	
MB 880-70027/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70027/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70027/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5861-1 MS	SW-6A (0-8')	Total/NA	Solid	8015NM Prep	
890-5861-1 MSD	SW-6A (0-8')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5861-1	SW-6A (0-8')	Total/NA	Solid	8015 NM	
890-5861-2	SW-48 (0-8')	Total/NA	Solid	8015 NM	
890-5861-3	SW-34 (7-8')	Total/NA	Solid	8015 NM	
890-5861-4	SW-43 (0-10')	Total/NA	Solid	8015 NM	
890-5861-5	SW-47 (0-10')	Total/NA	Solid	8015 NM	
890-5861-6	SW-46 (6-10')	Total/NA	Solid	8015 NM	
890-5861-7	CS-53A (10')	Total/NA	Solid	8015 NM	
890-5861-8	SW-3A (4-6')	Total/NA	Solid	8015 NM	
890-5861-9	SW-45 (0-6')	Total/NA	Solid	8015 NM	
890-5861-10	CS-52A (6')	Total/NA	Solid	8015 NM	
890-5861-11	SW-44 (0-6')	Total/NA	Solid	8015 NM	
890-5861-12	SW-41 (2-3')	Total/NA	Solid	8015 NM	
890-5861-13	SW-5A (8-10')	Total/NA	Solid	8015 NM	
890-5861-14	SW-40 (3-9')	Total/NA	Solid	8015 NM	
890-5861-15	SW-39 (0-7')	Total/NA	Solid	8015 NM	
890-5861-16	SW-42 (1-3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 70030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5861-1	SW-6A (0-8')	Soluble	Solid	DI Leach	
890-5861-2	SW-48 (0-8')	Soluble	Solid	DI Leach	
890-5861-3	SW-34 (7-8')	Soluble	Solid	DI Leach	
890-5861-4	SW-43 (0-10')	Soluble	Solid	DI Leach	
890-5861-5	SW-47 (0-10')	Soluble	Solid	DI Leach	
890-5861-6	SW-46 (6-10')	Soluble	Solid	DI Leach	
890-5861-7	CS-53A (10')	Soluble	Solid	DI Leach	
890-5861-8	SW-3A (4-6')	Soluble	Solid	DI Leach	
890-5861-9	SW-45 (0-6')	Soluble	Solid	DI Leach	
890-5861-10	CS-52A (6')	Soluble	Solid	DI Leach	
890-5861-11	SW-44 (0-6')	Soluble	Solid	DI Leach	
890-5861-12	SW-41 (2-3')	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 70030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5861-13	SW-5A (8-10')	Soluble	Solid	DI Leach	
890-5861-14	SW-40 (3-9')	Soluble	Solid	DI Leach	
890-5861-15	SW-39 (0-7')	Soluble	Solid	DI Leach	
890-5861-16	SW-42 (1-3')	Soluble	Solid	DI Leach	
MB 880-70030/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70030/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70030/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5861-10 MS	CS-52A (6')	Soluble	Solid	DI Leach	
890-5861-10 MSD	CS-52A (6')	Soluble	Solid	DI Leach	

Analysis Batch: 70035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5861-1	SW-6A (0-8')	Soluble	Solid	300.0	70030
890-5861-2	SW-48 (0-8')	Soluble	Solid	300.0	70030
890-5861-3	SW-34 (7-8')	Soluble	Solid	300.0	70030
890-5861-4	SW-43 (0-10')	Soluble	Solid	300.0	70030
890-5861-5	SW-47 (0-10')	Soluble	Solid	300.0	70030
890-5861-6	SW-46 (6-10')	Soluble	Solid	300.0	70030
890-5861-7	CS-53A (10')	Soluble	Solid	300.0	70030
890-5861-8	SW-3A (4-6')	Soluble	Solid	300.0	70030
890-5861-9	SW-45 (0-6')	Soluble	Solid	300.0	70030
890-5861-10	CS-52A (6')	Soluble	Solid	300.0	70030
890-5861-11	SW-44 (0-6')	Soluble	Solid	300.0	70030
890-5861-12	SW-41 (2-3')	Soluble	Solid	300.0	70030
890-5861-13	SW-5A (8-10')	Soluble	Solid	300.0	70030
890-5861-14	SW-40 (3-9')	Soluble	Solid	300.0	70030
890-5861-15	SW-39 (0-7')	Soluble	Solid	300.0	70030
890-5861-16	SW-42 (1-3')	Soluble	Solid	300.0	70030
MB 880-70030/1-A	Method Blank	Soluble	Solid	300.0	70030
LCS 880-70030/2-A	Lab Control Sample	Soluble	Solid	300.0	70030
LCSD 880-70030/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70030
890-5861-10 MS	CS-52A (6')	Soluble	Solid	300.0	70030
890-5861-10 MSD	CS-52A (6')	Soluble	Solid	300.0	70030

Lab Chronicle

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Client Sample ID: SW-6A (0-8')
Date Collected: 12/29/23 10:00
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/02/24 22:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/02/24 22:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/02/24 20:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/02/24 20:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70035	01/02/24 18:11	CH	EET MID

Client Sample ID: SW-48 (0-8')
Date Collected: 12/29/23 10:05
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/02/24 22:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/02/24 22:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/02/24 21:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/02/24 21:47	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70035	01/02/24 18:17	CH	EET MID

Client Sample ID: SW-34 (7-8')
Date Collected: 12/29/23 10:10
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/02/24 23:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/02/24 23:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/02/24 22:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/02/24 22:09	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70035	01/02/24 18:22	CH	EET MID

Client Sample ID: SW-43 (0-10')
Date Collected: 12/29/23 10:15
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/02/24 23:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/02/24 23:30	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1

SDG: Lea County NM

Client Sample ID: SW-43 (0-10')

Lab Sample ID: 890-5861-4

Date Collected: 12/29/23 10:15

Matrix: Solid

Date Received: 12/29/23 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70125	01/02/24 22:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/02/24 22:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70035	01/02/24 18:27	CH	EET MID

Client Sample ID: SW-47 (0-10')

Lab Sample ID: 890-5861-5

Date Collected: 12/29/23 10:20

Matrix: Solid

Date Received: 12/29/23 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/02/24 23:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/02/24 23:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/02/24 22:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/02/24 22:53	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70035	01/02/24 18:42	CH	EET MID

Client Sample ID: SW-46 (6-10')

Lab Sample ID: 890-5861-6

Date Collected: 12/29/23 10:25

Matrix: Solid

Date Received: 12/29/23 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/03/24 00:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/03/24 00:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/02/24 23:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/02/24 23:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70035	01/02/24 18:48	CH	EET MID

Client Sample ID: CS-53A (10')

Lab Sample ID: 890-5861-7

Date Collected: 12/29/23 10:30

Matrix: Solid

Date Received: 12/29/23 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/03/24 00:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/03/24 00:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/02/24 23:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/02/24 23:36	SM	EET MID

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Lab Chronicle

Client: NT Global

Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1

SDG: Lea County NM

Client Sample ID: CS-53A (10')

Date Collected: 12/29/23 10:30

Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70035	01/02/24 18:53	CH	EET MID

Client Sample ID: SW-3A (4-6')

Date Collected: 12/29/23 10:35

Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/03/24 00:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/03/24 00:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/02/24 23:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/02/24 23:58	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70035	01/02/24 18:58	CH	EET MID

Client Sample ID: SW-45 (0-6')

Date Collected: 12/29/23 10:40

Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/03/24 01:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/03/24 01:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/03/24 00:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/03/24 00:20	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	70035	01/02/24 19:03	CH	EET MID

Client Sample ID: CS-52A (6')

Date Collected: 12/29/23 10:45

Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/03/24 01:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/03/24 01:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/03/24 00:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/03/24 00:42	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70035	01/02/24 19:08	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Client Sample ID: SW-44 (0-6')
Date Collected: 12/29/23 10:50
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/03/24 02:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/03/24 02:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/03/24 01:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/03/24 01:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	70035	01/02/24 19:24	CH	EET MID

Client Sample ID: SW-41 (2-3')
Date Collected: 12/29/23 10:55
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/03/24 03:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/03/24 03:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/03/24 01:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/03/24 01:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	70035	01/02/24 19:29	CH	EET MID

Client Sample ID: SW-5A (8-10')
Date Collected: 12/29/23 11:05
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/03/24 03:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/03/24 03:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/03/24 02:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/03/24 02:09	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70035	01/02/24 19:45	CH	EET MID

Client Sample ID: SW-40 (3-9')
Date Collected: 12/29/23 11:10
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/03/24 03:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/03/24 03:59	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Client Sample ID: SW-40 (3-9')
Date Collected: 12/29/23 11:10
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70125	01/03/24 02:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/03/24 02:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	70035	01/02/24 19:50	CH	EET MID

Client Sample ID: SW-39 (0-7')
Date Collected: 12/29/23 11:15
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/03/24 04:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/03/24 04:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/03/24 02:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/03/24 02:53	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	70035	01/02/24 19:55	CH	EET MID

Client Sample ID: SW-42 (1-3')
Date Collected: 12/29/23 11:00
Date Received: 12/29/23 14:25

Lab Sample ID: 890-5861-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70058	01/02/24 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70013	01/03/24 04:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70124	01/03/24 04:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			70125	01/03/24 03:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/03/24 03:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70030	01/02/24 09:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70035	01/02/24 20:00	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: NT Global
Project/Site: Earthstone GRAMA RIDGE 34 STATE 3BS #005H

Job ID: 890-5861-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-5861-1	SW-6A (0-8')	Solid	12/29/23 10:00	12/29/23 14:25
890-5861-2	SW-48 (0-8')	Solid	12/29/23 10:05	12/29/23 14:25
890-5861-3	SW-34 (7-8')	Solid	12/29/23 10:10	12/29/23 14:25
890-5861-4	SW-43 (0-10')	Solid	12/29/23 10:15	12/29/23 14:25
890-5861-5	SW-47 (0-10')	Solid	12/29/23 10:20	12/29/23 14:25
890-5861-6	SW-46 (6-10')	Solid	12/29/23 10:25	12/29/23 14:25
890-5861-7	CS-53A (10')	Solid	12/29/23 10:30	12/29/23 14:25
890-5861-8	SW-3A (4-6')	Solid	12/29/23 10:35	12/29/23 14:25
890-5861-9	SW-45 (0-6')	Solid	12/29/23 10:40	12/29/23 14:25
890-5861-10	CS-52A (6')	Solid	12/29/23 10:45	12/29/23 14:25
890-5861-11	SW-44 (0-6')	Solid	12/29/23 10:50	12/29/23 14:25
890-5861-12	SW-41 (2-3')	Solid	12/29/23 10:55	12/29/23 14:25
890-5861-13	SW-5A (8-10')	Solid	12/29/23 11:05	12/29/23 14:25
890-5861-14	SW-40 (3-9')	Solid	12/29/23 11:10	12/29/23 14:25
890-5861-15	SW-39 (0-7')	Solid	12/29/23 11:15	12/29/23 14:25
890-5861-16	SW-42 (1-3')	Solid	12/29/23 11:00	12/29/23 14:25



Chain of Custody

Work Order No: _____

Page 1 of 2

Project Manager: Becky Haskell		Bill to: (if different)		Chris Martin	
Company Name: NTG Environmental		Company Name:		Earthstone Energy	
Address: 701 Tradewinds Blvd, Suite C		Address:		600 N. Marienfeld Suite 1000	
City, State ZIP: Midland, TX 79706		City, State ZIP:		Midland, Texas 79701	
Phone: 432-967-6544		Email: jkindley@ntglobal.com		bhaskell@ntglobal.com	

Project Name: Earthstone - Grama Ridge 34 State 3BS #005H	Turn Around	Pres. Code
Project Number: 237863	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	
Project Location: Lea Co., NM	Due Date: 48hr	
Sampler's Name: Jill Smiley	TAT starts the day received by the lab, if received by 4:30pm	
PO #:		

SAMPLE RECEIPT		Temp Blank:		Yes	No
Received intact:		Thermometer ID:			
Cooler Custody Seals:		Yes	No	N/A	
Sample Custody Seals:		Yes	No	N/A	
Total Containers:		16	Corrected Temperature:		

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Pres. Code
SW-6A (0-8')	12/29/2023	10:00	X	-	Comp	1	TPH 8015M (GRO + DRO + MRO)	
SW-48 (0-8')	12/29/2023	10:05	X	-	Comp	1		
SW-34 (7-8')	12/29/2023	10:10	X	-	Comp	1		
SW-5A (8-10')	12/29/2023	10:15	X	-	Comp	1		
SW-47 (0-10')	12/29/2023	10:20	X	-	Comp	1		
SW-46 (6-10')	12/29/2023	10:25	X	-	Comp	1		
CS-53A (10')	12/29/2023	10:30	X	-	Comp	1		
SW-3A (4-6')	12/29/2023	10:35	X	-	Comp	1		
SW-45 (0-6')	12/29/2023	10:40	X	-	Comp	1		
CS-52A (6')	12/29/2023	10:45	X	-	Comp	1		

ANALYSIS REQUEST		PRESERVATIVE CODES	
None		DI Water: H ₂ O	
Cool		MeOH: Me	
HCL		HNO ₃ : HN	
H ₂ SO ₄ : H ₂		NaOH: Na	
H ₃ PO ₄ : HP			
NaHSO ₄ : NABIS			
Na ₂ S ₂ O ₅ : NaSO ₃			
Zn Acetate+NaOH: Zn			
NaOH+Ascorbic Acid: SAPC			

Sample Comments	
HOLD	

Additional Comments:

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>					
3 <i>[Signature]</i>					
5 <i>[Signature]</i>					



NTG
ENVIRONMENTAL

Work Order No:

Page 1 of 2

[illegible]

Additional Comments:

Notice: Signature of this document 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 those 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	<i>[Signature]</i>	<i>[Signature]</i>	12/29	2		
3				4		
5				6		

- 1
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- 8
- 9
- 10
- 11
- 12
- 13
- 14

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-5861-1

SDG Number: Lea County NM

Login Number: 5861

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-5861-1

SDG Number: Lea County NM

Login Number: 5861

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/02/24 08:23 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

January 08, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GRAMA RIDGE

Enclosed are the results of analyses for samples received by the laboratory on 01/05/24 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 01/05/2024
 Reported: 01/08/2024
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: EARTHSTONE - LEA CO.

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DH - 1 (.5) (H240050-01)

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	01/05/2024	ND	2.23	112	2.00	0.923	
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816	
Total BTEx	<0.300	0.300	01/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/05/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2024	ND	172	85.8	200	0.974	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	176	88.1	200	0.600	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/05/2024
 Reported: 01/08/2024
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: EARTHSTONE - LEA CO.

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DV - 1 (9) (H240050-02)

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	01/05/2024	ND	2.23	112	2.00	0.923		
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33		
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816		
Total BTEx	<0.300	0.300	01/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/05/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2024	ND	172	85.8	200	0.974	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	176	88.1	200	0.600	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 01/05/2024
Reported: 01/08/2024
Project Name: GRAMA RIDGE
Project Number: 237778
Project Location: EARTHSTONE - LEA CO.

Sampling Date: 01/05/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: DH - 2 (.5) (H240050-03)

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	01/05/2024	ND	2.23	112	2.00	0.923	
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816	
Total BTEX	<0.300	0.300	01/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/05/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2024	ND	172	85.8	200	0.974	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	176	88.1	200	0.600	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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: 01/05/2024
 Reported: 01/08/2024
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: EARTHSTONE - LEA CO.

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DV - 2 (9) (H240050-04)

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	01/05/2024	ND	2.23	112	2.00	0.923	
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816	
Total BTEX	<0.300	0.300	01/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	01/05/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2024	ND	172	85.8	200	0.974	
DRO >C10-C28*	111	10.0	01/05/2024	ND	176	88.1	200	0.600	
EXT DRO >C28-C36	11.6	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/05/2024
 Reported: 01/08/2024
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: EARTHSTONE - LEA CO.

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DV - 3 (8) (H240050-05)

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	01/05/2024	ND	2.23	112	2.00	0.923		
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33		
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816		
Total BTEX	<0.300	0.300	01/05/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/05/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2024	ND	172	85.8	200	0.974	
DRO >C10-C28*	17.7	10.0	01/05/2024	ND	176	88.1	200	0.600	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO	P.O. #:	ANALYSIS REQUEST
Company Name: N-TIGER Project Manager: Brady Hensel	Company:	
Address: 209 W Main St City: Carlisle State: NM Zip: 87220	Attn:	
Phone #: 505-694-8056 Fax #:	Address:	
Project #: 237778 Project Owner: Earthstone	City:	
Project Name: Ceram Ridge	State: Zip:	
Project Location: Len County	Phone #:	
Sampler Name: Tyler Kumpall	Fax #:	

FOR LAB USE ONLY

		MATRIX	PRESERV.	SAMPLING															
(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE TIME										
H34D050 Lab I.D. Sample I.D.	DH-1 (.S) DU-1 (.Q)	X							1-S	9:00	PH	Chlorides	BTEX						
	DV-2 (.S) DV-2 (.Q)																		
	DV-3 (.S) DV-3 (.Q)																		

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Relinquished By: [Signature]	Date: 1-5	Received By: [Signature]	Verbal Result: Yes No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
REMARKS:			

BILL to EarthStone

Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only) Sample Condition
Sampler : UPS - Bus - Other:			Cool Intact Yes Yes No No	[Initials]		Rush	Cool Intact Observed Temp. °C Corrected Temp. °C



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

January 08, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GRAMA RIDGE

Enclosed are the results of analyses for samples received by the laboratory on 01/05/24 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 01/05/2024
 Reported: 01/08/2024
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: EARTHSTONE - LEA CO.

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DH - 3 (.5) (H240051-01)

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	01/05/2024	ND	2.23	112	2.00	0.923	
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816	
Total BTEX	<0.300	0.300	01/05/2024	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	464	16.0	01/05/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2024	ND	172	85.8	200	0.974	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	176	88.1	200	0.600	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



BILL TO

ANALYSIS REQUEST

[illegible]

Relinquished By: 	Date: 1-5	Receiver: By _____
--	-----------	--------------------

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address.

Time:	12:45	Received By:	<i>[Signature]</i>
Date:			
Relinquished By:	<i>[Signature]</i>		

REMARKS:

Delivered By: (Circle One)

Observed Temp. °C | 16

Sample Condition

CHECKED BY:
(Name)

Turnaround Time:

**Standard
Rush**

☐ ☐

**Bacteria (only
Cool Intact)**

Sample Condition	Observed Temp. °C
1	20.0
2	20.0
3	20.0
4	20.0
5	20.0
6	20.0
7	20.0
8	20.0
9	20.0
10	20.0
11	20.0
12	20.0
13	20.0
14	20.0
15	20.0
16	20.0
17	20.0
18	20.0
19	20.0
20	20.0
21	20.0
22	20.0
23	20.0
24	20.0
25	20.0
26	20.0
27	20.0
28	20.0
29	20.0
30	20.0
31	20.0
32	20.0
33	20.0
34	20.0
35	20.0
36	20.0
37	20.0
38	20.0
39	20.0
40	20.0
41	20.0
42	20.0
43	20.0
44	20.0
45	20.0
46	20.0
47	20.0
48	20.0
49	20.0
50	20.0
51	20.0
52	20.0
53	20.0
54	20.0
55	20.0
56	20.0
57	20.0
58	20.0
59	20.0
60	20.0
61	20.0
62	20.0
63	20.0
64	20.0
65	20.0
66	20.0
67	20.0
68	20.0
69	20.0
70	20.0
71	20.0
72	20.0
73	20.0
74	20.0
75	20.0
76	20.0
77	20.0
78	20.0
79	20.0
80	20.0
81	20.0
82	20.0
83	20.0
84	20.0
85	20.0
86	20.0
87	20.0
88	20.0
89	20.0
90	20.0
91	20.0
92	20.0
93	20.0
94	20.0
95	20.0
96	20.0
97	20.0
98	20.0
99	20.0
100	20.0

Sampler - UPS - Bus - Other:

Corrected Temp. °C

<input checked="" type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	Yes
-------------------------------------	-----	-------------------------------------	-----

Handwritten signature: *[Signature]*

Thermometer ID #140

2

☐ Yes ☐ Yes

11

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



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

January 10, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GRAMA RIDGE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/24 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	GRAMA RIDGE	Sampling Condition:	Cool & Intact
Project Number:	237778	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA CO.		

Sample ID: DV - 2 (10') (H240088-01)

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	01/09/2024	ND	2.27	113	2.00	2.33	
Toluene*	<0.050	0.050	01/09/2024	ND	2.27	114	2.00	1.71	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.26	113	2.00	1.66	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.84	114	6.00	1.49	
Total BTEX	<0.300	0.300	01/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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

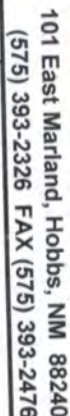
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Page 4 of 4

Released to Imaging: 4/10/2024 2:16:11 PM



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

January 10, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GRAMA RIDGE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/24 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	GRAMA RIDGE	Sampling Condition:	Cool & Intact
Project Number:	237778	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA CO.		

Sample ID: SW - 40A (3-9') (H240089-01)

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	01/09/2024	ND	2.27	113	2.00	2.33		
Toluene*	<0.050	0.050	01/09/2024	ND	2.27	114	2.00	1.71		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.26	113	2.00	1.66		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.84	114	6.00	1.49		
Total BTEX	<0.300	0.300	01/09/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 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: 01/09/2024
 Reported: 01/10/2024
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: EARTHSTONE - LEA CO.

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 49 (6-9') (H240089-02)

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	01/09/2024	ND	2.27	113	2.00	2.33	
Toluene*	<0.050	0.050	01/09/2024	ND	2.27	114	2.00	1.71	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.26	113	2.00	1.66	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.84	114	6.00	1.49	
Total BTEX	<0.300	0.300	01/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: EARTHSTONE - LEA CO.

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 59 (9') (H240089-03)

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	01/09/2024	ND	2.27	113	2.00	2.33	
Toluene*	<0.050	0.050	01/09/2024	ND	2.27	114	2.00	1.71	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.26	113	2.00	1.66	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.84	114	6.00	1.49	
Total BTEX	<0.300	0.300	01/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 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: 01/09/2024
 Reported: 01/10/2024
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: EARTHSTONE - LEA CO.

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 41A (1-3') (H240089-04)

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	01/09/2024	ND	2.27	113	2.00	2.33	
Toluene*	<0.050	0.050	01/09/2024	ND	2.27	114	2.00	1.71	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.26	113	2.00	1.66	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.84	114	6.00	1.49	
Total BTEX	<0.300	0.300	01/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 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: 01/09/2024
 Reported: 01/10/2024
 Project Name: GRAMA RIDGE
 Project Number: 237778
 Project Location: EARTHSTONE - LEA CO.

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 60 (3') (H240089-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.27	113	2.00	2.33	
Toluene*	<0.050	0.050	01/09/2024	ND	2.27	114	2.00	1.71	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.26	113	2.00	1.66	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.84	114	6.00	1.49	
Total BTX	<0.300	0.300	01/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

January 12, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GRAMA RIDGE

Enclosed are the results of analyses for samples received by the laboratory on 01/11/24 12:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 34 A (7-8)	H240127-01	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 46 A (7-11)	H240127-02	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 44 A (0-6)	H240127-03	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 45 A (0-6)	H240127-04	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 43 A (9-11)	H240127-05	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 5 B (8-11)	H240127-06	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 47 A (0-11)	H240127-07	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 48 A (0-8)	H240127-08	Soil	11-Jan-24 09:00	11-Jan-24 12:40
CS - 54 (11)	H240127-09	Soil	11-Jan-24 09:00	11-Jan-24 12:40
CS - 55 (8)	H240127-10	Soil	11-Jan-24 09:00	11-Jan-24 12:40
CS - 56 (8)	H240127-11	Soil	11-Jan-24 09:30	11-Jan-24 12:40
CS - 57 (6)	H240127-12	Soil	11-Jan-24 09:30	11-Jan-24 12:40
CS - 58 (6)	H240127-13	Soil	11-Jan-24 09:30	11-Jan-24 12:40
CS - 53 B (11)	H240127-14	Soil	11-Jan-24 09:30	11-Jan-24 12:40
CS - 61 (6)	H240127-15	Soil	11-Jan-24 09:30	11-Jan-24 12:40

01/12/24 - Client clarified the sample ID on -07. This is the revised report and will replace the one sent earlier today, 01/12/24.

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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

SW - 34 A (7-8)
H240127-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	0.053		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	0.249		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	0.302		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 4011130 JH 11-Jan-24 8021B

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

GRO C6-C10*	26.4		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	246		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane 136 % 48.2-134 4011135 MS 11-Jan-24 8015B

Surrogate: 1-Chlorooctadecane 147 % 49.1-148 4011135 MS 11-Jan-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

SW - 46 A (7-11)**H240127-02 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.7 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	44.7		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			111 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			124 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

SW - 44 A (0-6)**H240127-03 (Soil)**

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

Chloride	368		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.9 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	46.7		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			108 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			120 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

SW - 45 A (0-6)**H240127-04 (Soil)**

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

Chloride	128		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	98.6 %	71.5-134	4011130	JH	11-Jan-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B

Surrogate: 1-Chlorooctane	94.8 %	48.2-134	4011135	MS	11-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	104 %	49.1-148	4011135	MS	11-Jan-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

SW - 43 A (9-11)**H240127-05 (Soil)**

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

Chloride	720		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.4 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	419		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			86.6 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

SW - 5 B (8-11)**H240127-06 (Soil)**

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

Chloride	96.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.9 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	21.1		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			122 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			135 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

SW - 47 A (0-11)**H240127-07 (Soil)**

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

Chloride	144		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134 4011130 JH 11-Jan-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane 111 % 48.2-134 4011135 MS 11-Jan-24 8015B

Surrogate: 1-Chlorooctadecane 120 % 49.1-148 4011135 MS 11-Jan-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

SW - 48 A (0-8)**H240127-08 (Soil)**

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

Chloride	112		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.7 %			71.5-134		4011130	JH	11-Jan-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	19.2		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			105 %			48.2-134		4011135	MS	11-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane			115 %			49.1-148		4011135	MS	11-Jan-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

CS - 54 (11)
H240127-09 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.6 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			123 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			134 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

CS - 55 (8)
H240127-10 (Soil)

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

Chloride	224		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.3 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	115		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			112 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			126 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

CS - 56 (8)
H240127-11 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.0 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	80.8		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.4 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			106 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

CS - 57 (6)
H240127-12 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			96.8 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			115 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			127 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

CS - 58 (6)
H240127-13 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.7 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			109 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			120 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

CS - 53 B (11)**H240127-14 (Soil)**

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

Chloride	128		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.5 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	
DRO >C10-C28*	15.6		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	

Surrogate: 1-Chlorooctane			110 %		48.2-134	4011135	MS	12-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			121 %		49.1-148	4011135	MS	12-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

CS - 61 (6)
H240127-15 (Soil)

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

Chloride	256		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.2 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.3 %		48.2-134	4011135	MS	12-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %		49.1-148	4011135	MS	12-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4011139 - 1:4 DI Water									
Blank (4011139-BLK1)					Prepared & Analyzed: 11-Jan-24				
Chloride	ND	16.0	mg/kg						
LCS (4011139-BS1)					Prepared & Analyzed: 11-Jan-24				
Chloride	432	16.0	mg/kg	400	108	80-120			
LCS Dup (4011139-BSD1)					Prepared & Analyzed: 11-Jan-24				
Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4011130 - Volatiles**Blank (4011130-BLK1)**

Prepared & Analyzed: 11-Jan-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		97.0	71.5-134			

LCS (4011130-BS1)

Prepared & Analyzed: 11-Jan-24

Benzene	1.94	0.050	mg/kg	2.00		97.0	82.8-130			
Toluene	1.92	0.050	mg/kg	2.00		96.0	86-128			
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.9	85.9-128			
m,p-Xylene	3.71	0.100	mg/kg	4.00		92.8	89-129			
o-Xylene	1.87	0.050	mg/kg	2.00		93.3	86.1-125			
Total Xylenes	5.58	0.150	mg/kg	6.00		92.9	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.3	71.5-134			

LCS Dup (4011130-BSD1)

Prepared & Analyzed: 11-Jan-24

Benzene	2.11	0.050	mg/kg	2.00		106	82.8-130	8.61	15.8	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	9.13	15.9	
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	85.9-128	9.10	16	
m,p-Xylene	4.08	0.100	mg/kg	4.00		102	89-129	9.44	16.2	
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125	9.15	16.7	
Total Xylenes	6.12	0.150	mg/kg	6.00		102	88.2-128	9.34	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0485		mg/kg	0.0500		97.1	71.5-134			

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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
12-Jan-24 13:49

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4011135 - General Prep - Organics**Blank (4011135-BLK1)**

Prepared & Analyzed: 11-Jan-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.8	48.2-134			
Surrogate: 1-Chlorooctadecane	49.9		mg/kg	50.0		99.9	49.1-148			

LCS (4011135-BS1)

Prepared & Analyzed: 11-Jan-24

GRO C6-C10	170	10.0	mg/kg	200		85.1	66.4-123			
DRO >C10-C28	166	10.0	mg/kg	200		83.1	66.5-118			
Total TPH C6-C28	337	10.0	mg/kg	400		84.1	77.6-123			
Surrogate: 1-Chlorooctane	43.5		mg/kg	50.0		87.0	48.2-134			
Surrogate: 1-Chlorooctadecane	43.5		mg/kg	50.0		87.0	49.1-148			

LCS Dup (4011135-BSD1)

Prepared & Analyzed: 11-Jan-24

GRO C6-C10	174	10.0	mg/kg	200		86.8	66.4-123	1.93	17.7	
DRO >C10-C28	177	10.0	mg/kg	200		88.5	66.5-118	6.21	21	
Total TPH C6-C28	351	10.0	mg/kg	400		87.6	77.6-123	4.07	18.5	
Surrogate: 1-Chlorooctane	43.0		mg/kg	50.0		86.0	48.2-134			
Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0		97.0	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

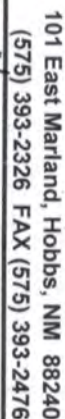
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**Page 22 of 23



Page 23 of 23

Released to Imaging: 4/10/2024 2:16:11 PM

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

January 16, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GRAMA RIDGE 34 STATE 3BS #005H

Enclosed are the results of analyses for samples received by the laboratory on 01/11/24 12:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 34 A (7-8)	H240127-01	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 46 A (7-11)	H240127-02	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 44 A (0-6)	H240127-03	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 45 A (0-6)	H240127-04	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 43 A (9-11)	H240127-05	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 5 B (8-11)	H240127-06	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 47 A (0-11)	H240127-07	Soil	11-Jan-24 09:00	11-Jan-24 12:40
SW - 48 A (0-11)	H240127-08	Soil	11-Jan-24 09:00	11-Jan-24 12:40
CS - 54 (11)	H240127-09	Soil	11-Jan-24 09:00	11-Jan-24 12:40
CS - 55 (8)	H240127-10	Soil	11-Jan-24 09:00	11-Jan-24 12:40
CS - 56 (8)	H240127-11	Soil	11-Jan-24 09:30	11-Jan-24 12:40
CS - 57 (6)	H240127-12	Soil	11-Jan-24 09:30	11-Jan-24 12:40
CS - 58 (6)	H240127-13	Soil	11-Jan-24 09:30	11-Jan-24 12:40
CS - 53 B (11)	H240127-14	Soil	11-Jan-24 09:30	11-Jan-24 12:40
CS - 61 (6)	H240127-15	Soil	11-Jan-24 09:30	11-Jan-24 12:40

01/12/24 - Client clarified the sample ID on -07. This is the revised report and will replace the one sent earlier today, 01/12/24.

01/16/24 - Client changed the sample ID on -08 (See COC). This is the 2nd revision of the report and will replace the one sent on 01/12/24.

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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

SW - 34 A (7-8)
H240127-01 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	0.053		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	0.249		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	0.302		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	26.4		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	246		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			136 %	48.2-134		4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			147 %	49.1-148		4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

SW - 46 A (7-11)**H240127-02 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.7 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	44.7		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			111 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			124 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

SW - 44 A (0-6)**H240127-03 (Soil)**

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

Chloride	368		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.9 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	46.7		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			108 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			120 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

SW - 45 A (0-6)**H240127-04 (Soil)**

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

Chloride	128		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	98.6 %	71.5-134	4011130	JH	11-Jan-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane	94.8 %	48.2-134	4011135	MS	11-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	104 %	49.1-148	4011135	MS	11-Jan-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

SW - 43 A (9-11)**H240127-05 (Soil)**

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

Chloride	720		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.4 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	419		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			86.6 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

SW - 5 B (8-11)**H240127-06 (Soil)**

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

Chloride	96.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.9 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	21.1		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			122 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			135 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

SW - 47 A (0-11)**H240127-07 (Soil)**

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

Chloride	144		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.3 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			111 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			120 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

SW - 48 A (0-11)**H240127-08 (Soil)**

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

Chloride	112		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134 4011130 JH 11-Jan-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	19.2		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane 105 % 48.2-134 4011135 MS 11-Jan-24 8015B

Surrogate: 1-Chlorooctadecane 115 % 49.1-148 4011135 MS 11-Jan-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

CS - 54 (11)
H240127-09 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.6 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			123 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			134 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

CS - 55 (8)
H240127-10 (Soil)

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

Chloride	224		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.3 %	71.5-134	4011130	JH	11-Jan-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B
DRO >C10-C28*	115	10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B

Surrogate: 1-Chlorooctane	112 %	48.2-134	4011135	MS	11-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	126 %	49.1-148	4011135	MS	11-Jan-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

CS - 56 (8)
H240127-11 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.0 %	71.5-134		4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	80.8		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			93.4 %	48.2-134		4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	49.1-148		4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

CS - 57 (6)
H240127-12 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			96.8 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

Surrogate: 1-Chlorooctane			115 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			127 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

CS - 58 (6)
H240127-13 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.7 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	11-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			109 %		48.2-134	4011135	MS	11-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			120 %		49.1-148	4011135	MS	11-Jan-24	8015B	
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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

CS - 53 B (11)**H240127-14 (Soil)**

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

Chloride	128		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.5 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	
DRO >C10-C28*	15.6		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	

Surrogate: 1-Chlorooctane			110 %		48.2-134	4011135	MS	12-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			121 %		49.1-148	4011135	MS	12-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

CS - 61 (6)
H240127-15 (Soil)

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

Chloride	256		16.0	mg/kg	4	4011139	CT	11-Jan-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4011130	JH	11-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4011130	JH	11-Jan-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.2 %		71.5-134	4011130	JH	11-Jan-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4011135	MS	12-Jan-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.3 %		48.2-134	4011135	MS	12-Jan-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %		49.1-148	4011135	MS	12-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4011139 - 1:4 DI Water									
Blank (4011139-BLK1)					Prepared & Analyzed: 11-Jan-24				
Chloride	ND	16.0	mg/kg						
LCS (4011139-BS1)					Prepared & Analyzed: 11-Jan-24				
Chloride	432	16.0	mg/kg	400	108	80-120			
LCS Dup (4011139-BSD1)					Prepared & Analyzed: 11-Jan-24				
Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4011130 - Volatiles**Blank (4011130-BLK1)**

Prepared & Analyzed: 11-Jan-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		97.0	71.5-134			

LCS (4011130-BS1)

Prepared & Analyzed: 11-Jan-24

Benzene	1.94	0.050	mg/kg	2.00		97.0	82.8-130			
Toluene	1.92	0.050	mg/kg	2.00		96.0	86-128			
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.9	85.9-128			
m,p-Xylene	3.71	0.100	mg/kg	4.00		92.8	89-129			
o-Xylene	1.87	0.050	mg/kg	2.00		93.3	86.1-125			
Total Xylenes	5.58	0.150	mg/kg	6.00		92.9	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.3	71.5-134			

LCS Dup (4011130-BSD1)

Prepared & Analyzed: 11-Jan-24

Benzene	2.11	0.050	mg/kg	2.00		106	82.8-130	8.61	15.8	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	9.13	15.9	
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	85.9-128	9.10	16	
m,p-Xylene	4.08	0.100	mg/kg	4.00		102	89-129	9.44	16.2	
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125	9.15	16.7	
Total Xylenes	6.12	0.150	mg/kg	6.00		102	88.2-128	9.34	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0485		mg/kg	0.0500		97.1	71.5-134			

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: GRAMA RIDGE 34 STATE 3BS #00!
Project Number: 237778
Project Manager: BECKY HASKELL
Fax To:

Reported:
16-Jan-24 15:45

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4011135 - General Prep - Organics**Blank (4011135-BLK1)**

Prepared & Analyzed: 11-Jan-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.8	48.2-134			
Surrogate: 1-Chlorooctadecane	49.9		mg/kg	50.0		99.9	49.1-148			

LCS (4011135-BS1)

Prepared & Analyzed: 11-Jan-24

GRO C6-C10	170	10.0	mg/kg	200		85.1	66.4-123			
DRO >C10-C28	166	10.0	mg/kg	200		83.1	66.5-118			
Total TPH C6-C28	337	10.0	mg/kg	400		84.1	77.6-123			
Surrogate: 1-Chlorooctane	43.5		mg/kg	50.0		87.0	48.2-134			
Surrogate: 1-Chlorooctadecane	43.5		mg/kg	50.0		87.0	49.1-148			

LCS Dup (4011135-BSD1)

Prepared & Analyzed: 11-Jan-24

GRO C6-C10	174	10.0	mg/kg	200		86.8	66.4-123	1.93	17.7	
DRO >C10-C28	177	10.0	mg/kg	200		88.5	66.5-118	6.21	21	
Total TPH C6-C28	351	10.0	mg/kg	400		87.6	77.6-123	4.07	18.5	
Surrogate: 1-Chlorooctane	43.0		mg/kg	50.0		86.0	48.2-134			
Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0		97.0	49.1-148			

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FAX (575) 393-2476

Page 22 of 23



101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTOE Project Manager: Becky Havel Address: 204 W. Main City: Carlsbad State: NM zip: 88220 Phone #: 432-924-8056 Fax #: Project #: 237778 Project Owner: Project Name: Corra R. Hgt Project Location: Lea County Sampler Name: Cyle Hunkall		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
FOR LAB USE ONLY Lab I.D. H240127 Sample I.D. CS-56(8) 11 CS-57(6) 12 CS-58(6) 13 CS-53B(11) 14 CS-61(6) 15		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	MATRIX ACID/BASE: ICE / COOL OTHER:	PRESERV. DATE TIME	SAMPLING TPH Chlorides BTEX
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates, or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such liability is based upon any of the above stated reasons or otherwise.		Relinquished By: [Signature] Date: 1-11 Received By: [Signature] Date: 1-11 Time: 9:30			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 4.2 Corrected Temp. °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #140 24 HRC Correction Factor 0°C		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #140 24 HRC Correction Factor 0°C		Standard <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input checked="" type="checkbox"/> Observed Temp. °C Corrected Temp. °C	
REMARKS:					
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:					

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

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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

QUESTIONS

Action 318440

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 318440
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2324355629
Incident Name	NAPP2324355629 GRAMA RIDGE EAST 34 STATE COM 3BS #005H @ 30-025-45625
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	[30-025-45625] GRAMA RIDGE EAST 34 STATE COM 3BS #005H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	GRAMA RIDGE EAST 34 STATE COM 3BS #005H
Date Release Discovered	08/28/2023
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Well Crude Oil Released: 13 BBL Recovered: 3 BBL Lost: 10 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Well Produced Water Released: 8 BBL Recovered: 2 BBL Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

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District IV

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

QUESTIONS, Page 2

Action 318440

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID:
	372165
	Action Number:
	318440
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Montgomery Floyd Title: Environmental Manager Email: montgomery.floyd@permianres.com Date: 02/28/2024
--	--

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 3

Action 318440

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID:
	372165
	Action Number: 318440
Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	3810
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1800
GRO+DRO	(EPA SW-846 Method 8015M)	1800
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	09/13/2023
On what date will (or did) the final sampling or liner inspection occur	01/12/2024
On what date will (or was) the remediation complete(d)	01/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	8000
What is the estimated volume (in cubic yards) that will be reclaimed	2800
What is the estimated surface area (in square feet) that will be remediated	8000
What is the estimated volume (in cubic yards) that will be remediated	2800

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 318440

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID:	372165
	Action Number:	318440
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Montgomery Floyd Title: Environmental Manager Email: montgomery.floyd@permianres.com Date: 02/28/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 318440

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID:	372165
	Action Number:	318440
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Wellheads, pumping units & related electrical panels
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	820
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	215
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	GRAMA RIDGE EAST 34 STATE COM SOUTH BATTERY [APP2123832175]
Enter the well API (30-) on which this deferral should be granted	30-025-45625 GRAMA RIDGE EAST 34 STATE COM 3BS #005H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Montgomery Floyd Title: Environmental Manager Email: montgomery.floyd@permianres.com Date: 02/28/2024

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QUESTIONS, Page 6

Action 318440

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID:	372165
	Action Number:	318440
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	303267
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2024
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	700

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 318440

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 318440
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of DV-1, DV-2, DV-3, DH-1, DH-2 and DH-3 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	4/10/2024