Site Information

Work Plan
Hambone Federal 8 CTB (11.18.21)
Eddy County, New Mexico
Unit N Sec 08 T26S R29E
Incident #: NAPP2133541017
32.050387°, -104.006826°

Produced Water Release
Source: Incorrectly positioned valve
Release Date: 11/18/2021
Volume Released: 45.193 bbls/Produced Water
Volume Recovered: 40 bbls/Produced Water

Prepared for:
COG Operating, LLC
15 West London Rd
Loving, NM 88256

Prepared by:
NTG Environmental
701 Tradewinds Blvd
Suite C
Midland, TX 79706

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APPENDICES

701 Tradewinds Boulevard, Suite C
Midland, Texas 79706
Tel. 432.685.3898
www.ntglobal.com

January 27, 2022

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

Re: Work Plan
Hambone Federal 8 CTB (11.18.21)
COG Operating, LLC
Site Location: Unit N, S08, T26S, R29E
Incident #: NAPP2133541017
(Lat 32.050387º, Long -104.006826°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment activities for the Hambone Federal 8 CTB (11.18.21) release. The site is located at 32.050387º, -104.006826º within Unit N, S08, T26S, R29E, and approximately 12.65 miles Southeast of Malaga, New Mexico, in Eddy County (Figures 1 and 2).

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on November 18, 2021, caused by a corroded bull plug. It resulted in the release of approximately 45.193 barrels of produced water, and 40 barrels of produced water were recovered. The impacted area measured approximately 220' x 140', as shown on Figure 3. The initial C-141 form is attached in Appendix A.

Site Characterization

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source within a ½ mile radius of the location. The nearest identified well is located approximately 0.46 miles Northwest of the site in S13, T26S, R28E, and drilled in 2003. The well has a reported depth to groundwater of 58.88' feet below ground surface (ft bgs). A copy of the associated *National Water Information System* report is attached in Appendix B.

Regulatory Criteria

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO +DRO)
- Chloride: 10,000 mg/kg

Assessment Activities

Initial Assessment

On December 8, 2021, NTGE personnel were on site to horizontally and vertically define the release. A total of five (5) soil sample points (S1 through S5) and six (6) horizontal sample points were installed to total depths ranging from surface to 2.5 ft below the surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, the area of (S-1) had TPH concentrations of 21,970 mg/kg to 14,960 mg/kg at a depth from the surface to 1.0-1.5' below the surface. The area of (S-3) had chloride concentration values ranging from 43,600 mg/kg to 10,300 mg/kg and a high TPH concentration of 4,163 mg/kg at a depth 1.0-1.5' below the surface. The area of (S-4) had chloride concentration values ranging from 26,000 mg/kg to 2,480 mg/kg at a depth from the surface to 1.0-1.5' below the surface. The area of (S-5) had chloride concentration values ranging from 32,400 mg/kg to 4,960 mg/kg at a depth from the surface to 1.0-1.5' below the surface.

Trenches

On January 4, 2021, NTGE personnel were on site to vertically define the release. A total of four (4) trenches (T-1 through T-4) were installed to total depths ranging from surface to 4 ft below the surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, the area of T-1 had chloride concentration values ranging from 11,200 mg/kg to 320 mg/kg and TPH concentrations ranging from 3,960 mg/kg to <49.9 mg/kg at a depth from the surface to 2' below the surface. The area of T-2 had chloride concentration values ranging from 10,300 mg/kg to 2,020 mg/kg and TPH concentrations ranging from 6,310 mg/kg to <50.0 mg/kg at a depth from the surface to 2' below the surface. The area of T-3 had chloride concentration values ranging from 12,700 mg/kg to 315 mg/kg at a depth from the surface to 2' below the surface. The area of T-4 had chloride concentration values ranging from 16,200 mg/kg to 106 mg/kg at a depth from the surface to 2' below the surface.

Proposed Work Plan

Based on the laboratory results and the detected TPH and chloride concentrations, COG proposes to excavate the areas as shown in Figure 4 and highlighted (yellow) in Table 1.

- The areas of S-1 (Trench-1), S-3 (Trench-3), and S-4 will be excavated to a depth of 2' below surface and backfilled with clean material to grade.
- The area of S-2 (Trench- 2) will be excavated to a depth of 3' below surface and backfilled with clean material to grade.
- The area of S-5 (Trench-4) will be excavated to a depth of 2.5' below surface and backfilled with clean material to grade.

- Composite sidewall and bottom hole samples will be collected every 400 square feet and analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B. Chloride by EPA method 300.0., to be representative of the release area for documentation purposes

- COG estimates approximately 2,085 cubic yards to be removed and hauled to the nearest disposal.

- Once the site activities and excavation are complete, the areas will be backfilled with clean material to surface grade. The remediation will be implemented 90 days after the work plan is approved.

Safety Concerns

The proposed excavation depths may not be reached due to wall cave-ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safety concerns for onsite personnel. COG will excavate the impacted soils to the maximum extent possible.

Conclusions

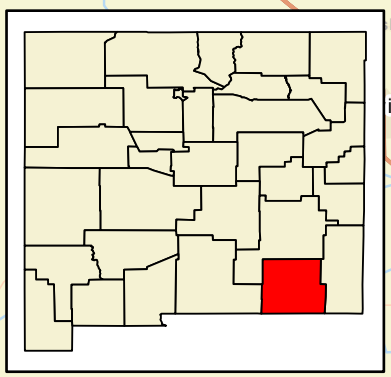
Upon completion, a final report detailing the remediation activities will be submitted to the NMOCD. If you have any questions regarding this report or need additional information, please contact us at 432-813-0263.

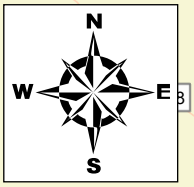
Sincerely,
NTG Environmental

Mike Carmona
Senior Project Manager

Ashton Thielke
Project Manager

Figures





Malaga

Pecos Hwy

Red Bluff

Hambone
Federal 8 CTB
(11.18.21)

Pecos Hwy

Red Bluff
Reservoir

Angeles
Red Bluff

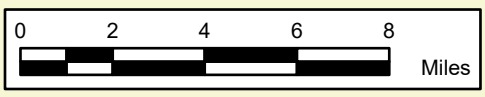
652

652

FM 652 E

FM 652 W

Orla



LEGEND

★ Site Location

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SITE LOCATION MAP
COG OPERATIING LLC
HAMBONE FEDERAL 8 CTB
EDDY COUNTY, NEW MEXICO
32.050387, -104.006826

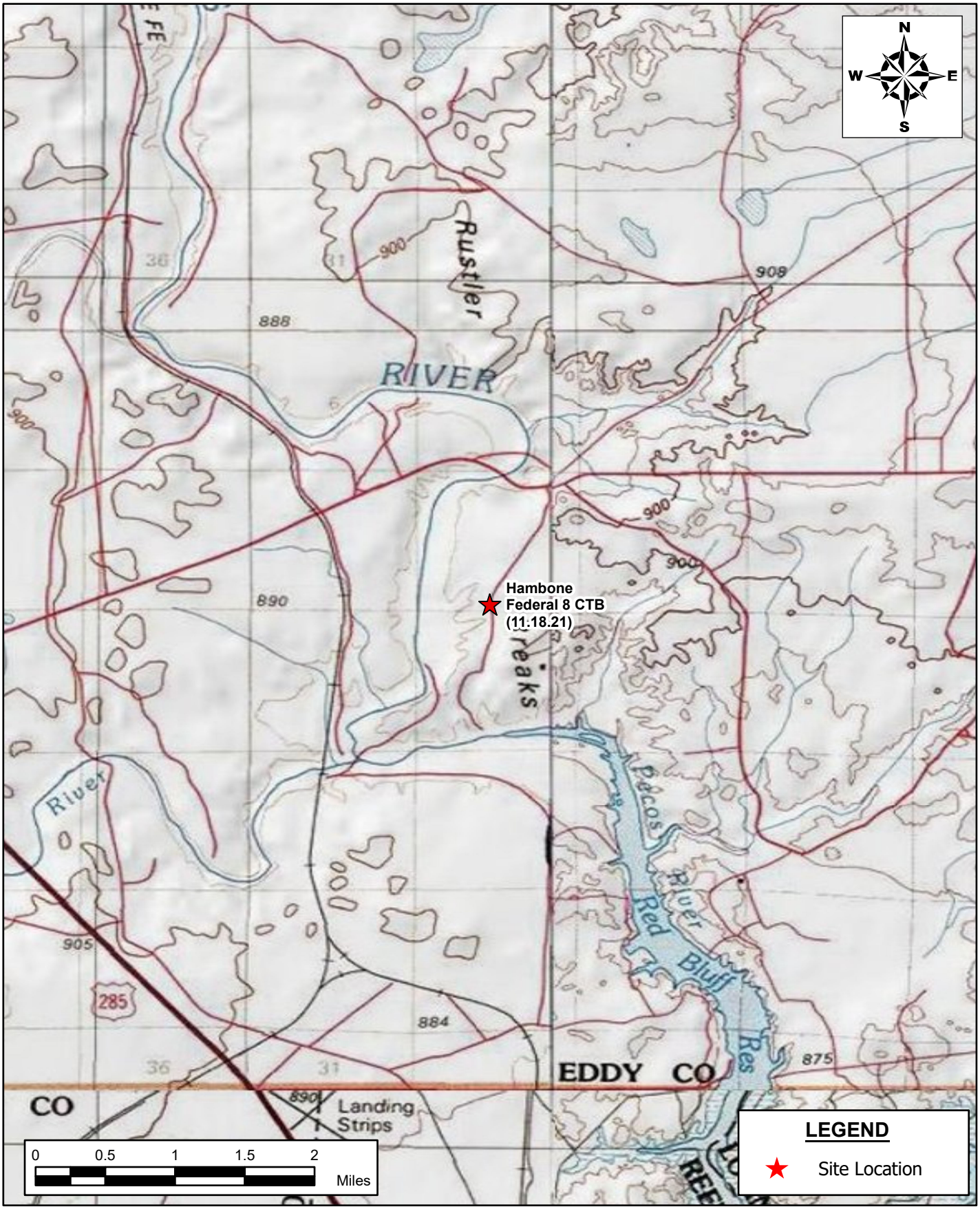
SCALE: As Shown | Date: 1/3/2022 | PROJECT #: 214971

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

NOTES:

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

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1



AREA MAP
COG OPERATIING LLC
HAMBONE FEDERAL 8 CTB
EDDY COUNTY, NEW MEXICO
32.050387, -104.006826

SCALE: As Shown | Date: 1/3/2022 | PROJECT #: 214971

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DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1

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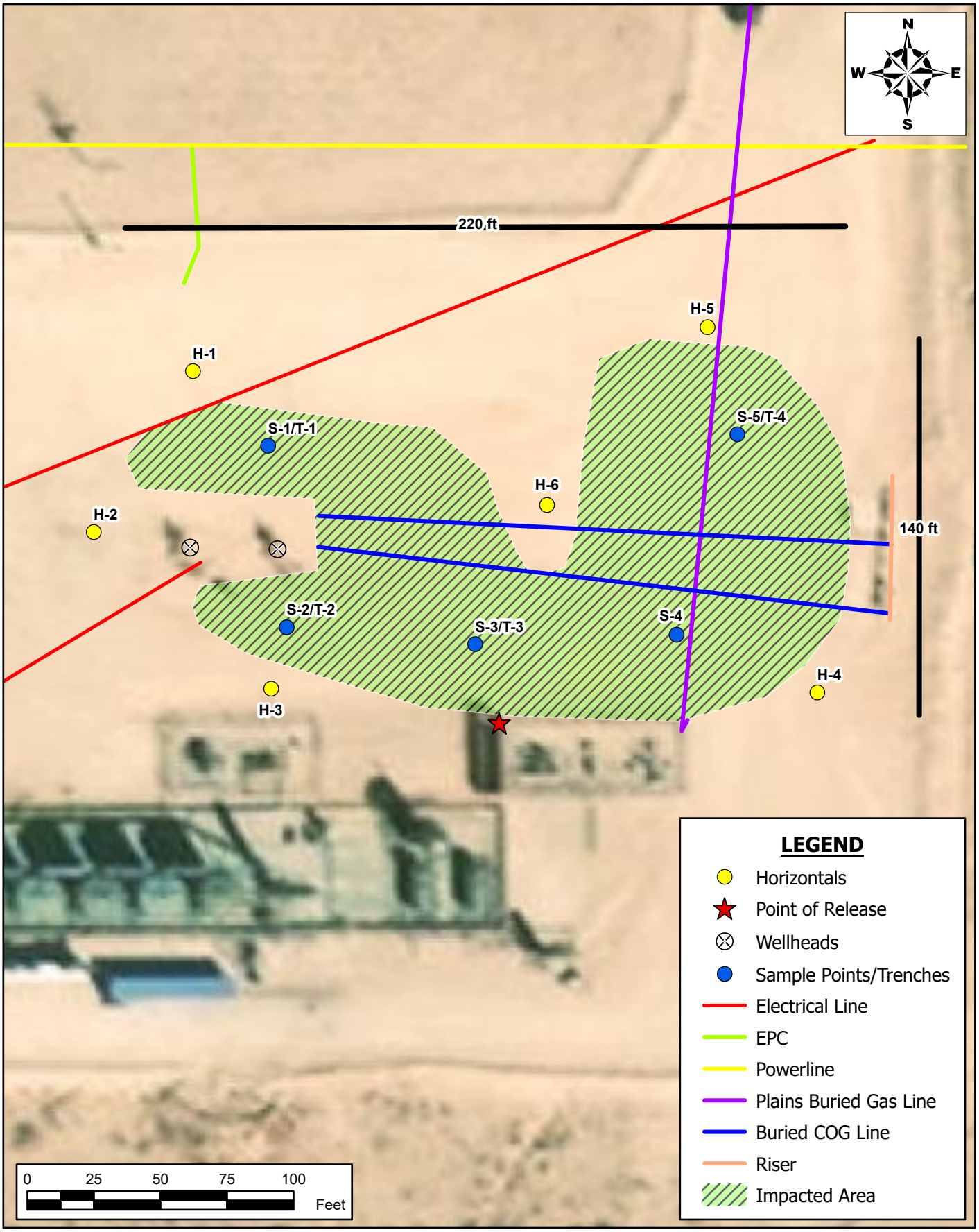

SAMPLE LOCATION MAP
COG OPERATIING LLC
HAMBONE FEDERAL 8 CTB
EDDY COUNTY, NEW MEXICO
32.050387, -104.006826

SCALE: As Shown | Date: 1/14/2022 | PROJECT #: 214971

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

DRAWING NUMBER:
FIGURE 3
SHEET NUMBER:
1 of 1

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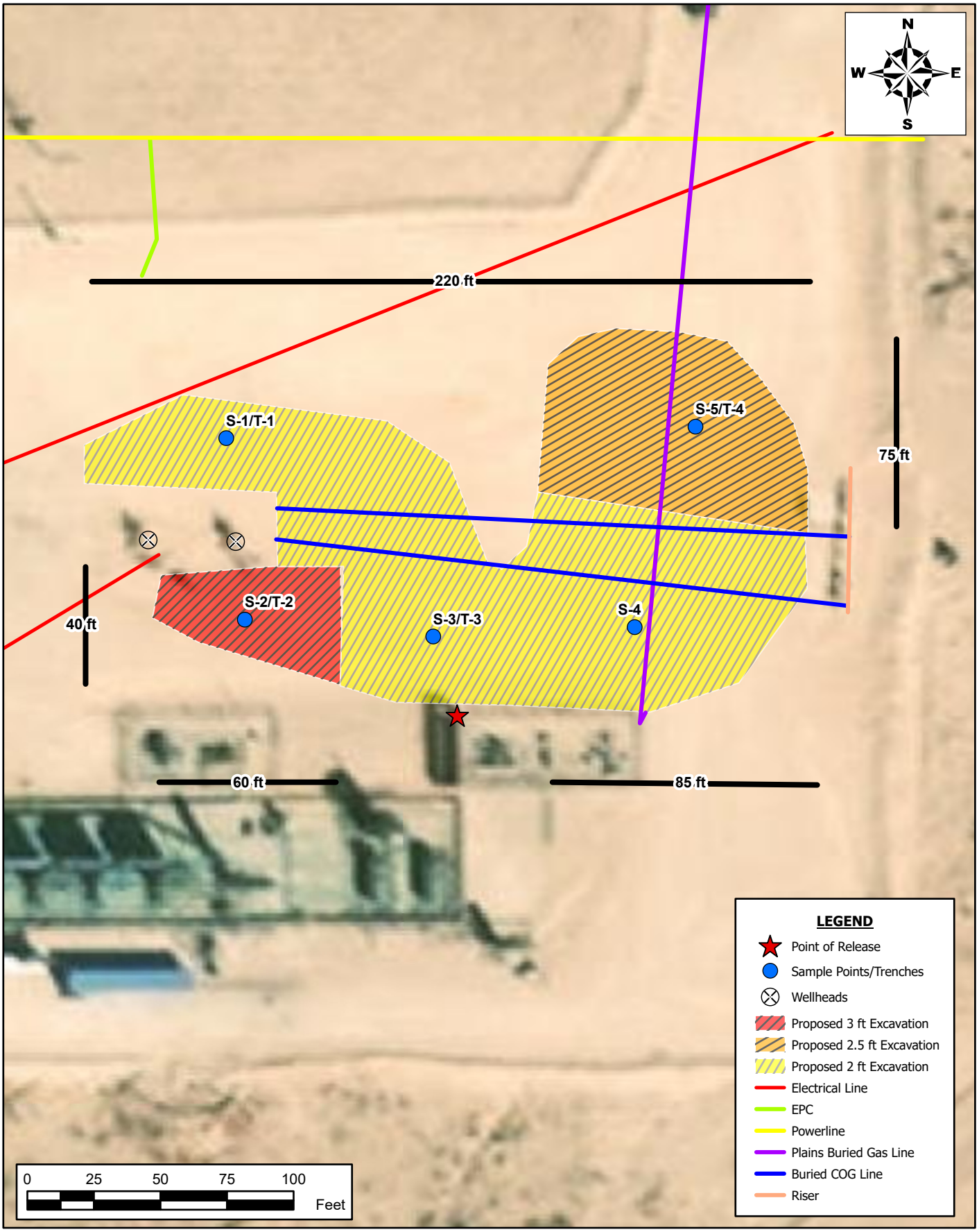

EXCAVATION DEPTH MAP
COG OPERATIING LLC
HAMBONE FEDERAL 8 CTB
EDDY COUNTY, NEW MEXICO
32.050387, -104.006826

SCALE: As Shown | Date: 1/14/2022 | PROJECT #: 214971

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NOTES:
1. Base Image: ESRI Maps & Data 2013
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FIGURE 4
SHEET NUMBER:
1 of 1

Document Path: P:\2021 PROJECTS\COG\RSC\214971 - Hambone Federal 8 CTB (11.18.21)\7 - Figures\GIS\Geodatabase\Hambone Federal 8 CTB Figures.aprx

Tables

Table 1
Concho Operating, LLC
Hambone Fed 8 CTB (11.18.21)
Eddy County, New Mexico

Sample ID	Date	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	12/8/2021	0-1'	<50.0	**17,750**	**4,220**	**21,970**	<0.50	<0.50	<0.50	<0.150	<0.300	1,380
	"	1-1.5'	<50.0	**12,400**	**2,560**	**14,960**	<0.50	<0.50	<0.50	<0.150	<0.300	1,040
T-1	1/4/2022	0-1'	<49.9	**3,960**	<49.9	**3,960**	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**11,200**
	"	1'	<50.0	**4,560**	<50.0	**4,560**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**10,000**
	"	2'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	320
	"	3'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	333
S-2	12/8/2021	0-1'	<10.0	268	<10.0	268	<0.50	<0.50	<0.50	<0.150	<0.300	5,600
	"	1-1.5'	<10.0	11.4	<10.0	11.4	<0.50	<0.50	<0.50	<0.150	<0.300	1,480
T-2	1/4/2022	0-1'	<50.0	**6,310**	<50.0	**6,310**	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	**8,010**
	"	1'	<50.0	**7,610**	<50.0	**7,610**	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**10,400**
	"	2'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,020
	"	3'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	319
S-3	12/8/2021	0-1'	<10.0	105	<10.0	105	<0.50	<0.50	<0.50	<0.150	<0.300	**43,600**
	"	1-1.5'	<10.0	**3,970**	193	**4,163**	<0.50	<0.50	<0.50	<0.150	<0.300	**10,300**
T-3	1/4/2022	0-1'	<50.0	167	<50.0	167	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**12,700**
	"	1'	<50.0	292	<50.0	292	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	9,040
	"	2'	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	315
	"	3'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	175
S-4	12/8/2021	0-1'	<10.0	30.2	<10.0	30.2	<0.50	<0.50	<0.50	<0.150	<0.300	**26,000**
	"	1-1.5'	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	2,480
	"	2-2.5'	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	176
S-5	12/8/2021	0-1'	<10.0	183	22.8	206	<0.50	<0.50	<0.50	<0.150	<0.300	**32,400**
	"	1-1.5'	<10.0	34.4	<10.0	34.4	<0.50	<0.50	<0.50	<0.150	<0.300	4,960
	"	2-2.5'	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	656
T-4	1/4/2022	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**16,200**
	"	1'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**16,200**
	"	2'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	106
	"	3'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	88.7
	"	4'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	44.3

Table 1
Concho Operating, LLC
Hambone Fed 8 CTB (11.18.21)
Eddy County, New Mexico

Sample ID	Date	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	12/8/2021	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	64.0
H-2	12/8/2021	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	32.0
H-3	12/8/2021	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	112
H-4	12/8/2021	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	16.0
H-5	12/8/2021	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	48.0
H-6	12/8/2021	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	80.0
Regulatory Limits			**1,000 mg/kg**			**2,500 mg/kg**	**10 mg/kg**				**50 mg/kg**	**10,000 mg/kg**

Proposed Excavation Depths
(-) Not Analyzed
A – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft-feet

Photo Log

PHOTOGRAPHIC LOG

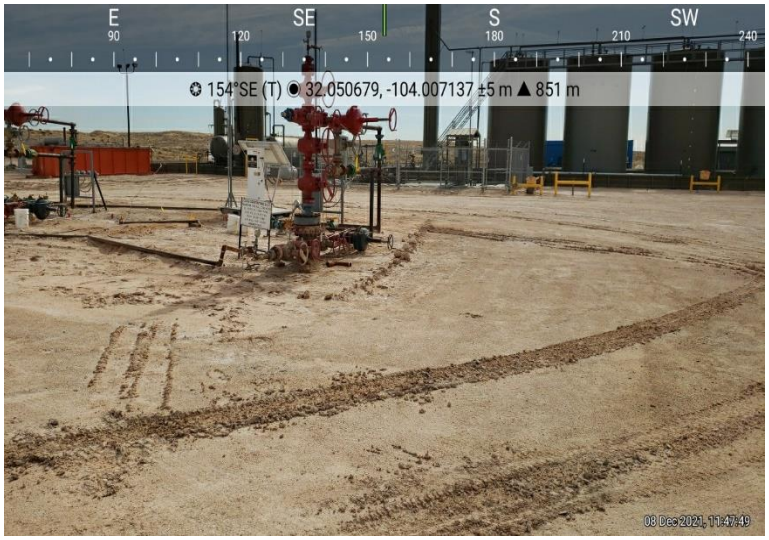
COG Operating, LLC

Photograph No. 1

Facility: Hambone Federal 8 CTB (11.18.21)

County: Eddy County, New Mexico

Description:
View Southeast, area of S-2/T-2.

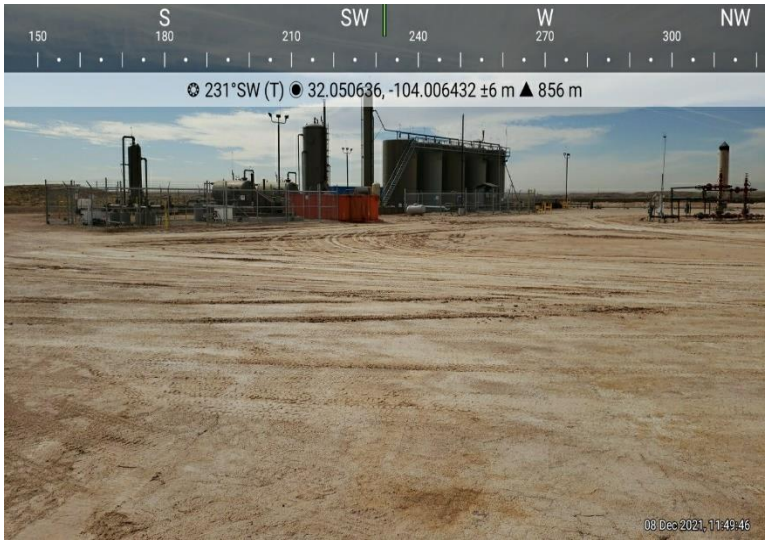


Photograph No. 2

Facility: Hambone Federal 8 CTB (11.18.21)

County: Eddy County, New Mexico

Description:
View Southwest, area of S-3/T-3, S-4, and S-5/T-4.

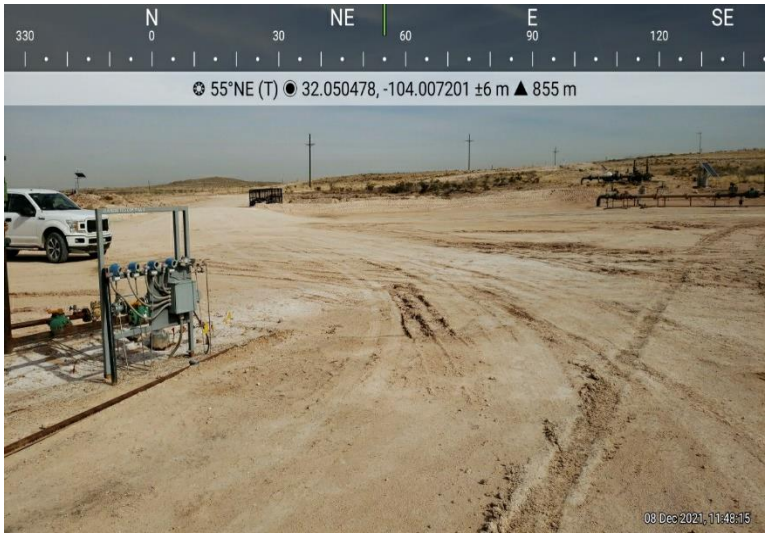


Photograph No. 3

Facility: Hambone Federal 8 CTB (11.18.21)

County: Eddy County, New Mexico

Description:
View Northeast, area of S-3/T-3, S-4, and S-5/T-4.



Appendix A

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ 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

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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 _____ Title: _____

Signature: __ _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

L48 Spill Volume Estimate Form

Facility Name & Number:	Hambone Fed 8H
Asset Area:	DBWN
Release Discovery Date & Time:	11.18..21
Release Type:	Produced Water
Provide any known details about the event:	Valve left open

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated *Pool* Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	138.0	78.0	0.50	3	10764.000	0.014	26.611	0.001	26.629			
Rectangle B	111.0	39.0	0.50	2	4329.000	0.021	16.053	0.001	16.070			
Rectangle C	42.0	24.0	0.50	3	1008.000	0.014	2.492	0.001	2.494			
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
								Total Volume Release:	45.193			

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris _____ Date: 2/17/2022

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris _____ Date: 2/17/2022

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: Jennifer Nobui _____ Date: _____

Appendix B

Nearest Water Well

COG Operating, LLC

Pecos River

75' - Drilled 2011

78' - Drilled 2011

Pecos River

120' - Drilled 1961

58.88' - Drilled 2003

92.12' - Drilled 2003

Hambone Federal 8 CTB (11.18.21)

Legend

- 0.46 Miles
- 0.50 Mile Radius
- 0.93 Miles
- 1.22 Miles
- 1.25 Miles
- 2.29 Miles
- Hambone Federal 8 CTB (11.18.21)
- NMSEO Water Well
- USGS Water Well

N

1 mi

Google Earth

Medium Karst

COG Operating, LLC

Pecos River

Hambone Federal 8 CTB (11.18.21)

Legend

- Hambone Federal 8 CTB (11.18.21)
- HIGH
- MEDIUM

N

3000 ft

Google Earth

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03507 POD1	C	ED	1	3	3	05	26S	29E	593064	3548313	1967	140	78	62
C 03508 POD1	C	ED	1	3	3	05	26S	29E	593063	3548361	2012	140	75	65
C 02894	C	ED	2	2	3	12	26S	28E	590458	3547061*	3331	240		
C 04473 POD1	CUB	ED	3	4	3	33	25S	29E	595018	3549768	3544	110		
C 02160 S8	CUB	ED	2	3	3	12	26S	28E	590056	3546653*	3684	200	120	80
C 01668	CUB	ED		3	3	12	26S	28E	589957	3546554*	3779	250	100	150

Average Depth to Water: **93 feet**
Minimum Depth: **75 feet**
Maximum Depth: **120 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 593735.34 **Northing (Y):** 3546464.29 **Radius:** 4000

***UTM location was derived from PLSS - see Help**

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
	C 02160 S8	2	3	3	12	26S	28E	590056	3546653*

Driller License: **Driller Company:**

Driller Name: HEMLER

Drill Start Date:		**Drill Finish Date:**	03/01/1961	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	200 feet	**Depth Water:**	120 feet

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	C 03507 POD1	1	3	3	05	26S	29E	593064	3548313

Driller License: 1058 **Driller Company:** KEY'S DRILLING & PUMP SERVICE

Driller Name: KEY, CLINTON

Drill Start Date: 08/26/2011 **Drill Finish Date:** 08/26/2011 **Plug Date:**

Log File Date: 09/12/2011 **PCW Rcv Date:** **Source:** Shallow

Pump Type: SUBMER **Pipe Discharge Size:** **Estimated Yield:** 35 GPM

Casing Size: 6.00 **Depth Well:** 140 feet **Depth Water:** 78 feet

Water Bearing Stratifications:	Top	Bottom	Description
	78	79	Shale/Mudstone/Siltstone
	105	106	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	75	112

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	Twn	Rng	X	Y
	C 03508 POD1	1	3	3	05	26S	29E	593063	3548361

Driller License: 1058 **Driller Company:** KEY'S DRILLING & PUMP SERVICE

Driller Name: KEY, CLINTON

Drill Start Date: 08/24/2011 **Drill Finish Date:** 08/24/2011 **Plug Date:**

Log File Date: 09/12/2011 **PCW Rcv Date:** **Source:** Shallow

Pump Type: SUBMER **Pipe Discharge Size:** **Estimated Yield:** 40 GPM

Casing Size: 6.00 **Depth Well:** 140 feet **Depth Water:** 75 feet

Water Bearing Stratifications:	Top	Bottom	Description
	75	76	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	65	105

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320303104012301

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320303104012301 26S.28E.14.21412

Eddy County, New Mexico
Latitude 32°03'03.0", Longitude 104°01'23.0" NAD27
Land-surface elevation 2,972.40 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1978-01-13		D	62610		2855.65	NGVD29	1	Z		
1978-01-13		D	62611		2857.19	NAVD88	1	Z		
1978-01-13		D	72019	116.75			1	Z		
1983-01-25		D	62610		2858.75	NGVD29	1	Z		
1983-01-25		D	62611		2860.29	NAVD88	1	Z		
1983-01-25		D	72019	113.65			1	Z		
1987-10-14		D	62610		2873.68	NGVD29	1	Z		
1987-10-14		D	62611		2875.22	NAVD88	1	Z		
1987-10-14		D	72019	98.72			1	Z		
1993-05-04		D	62610		2880.80	NGVD29	1	S		
1993-05-04		D	62611		2882.34	NAVD88	1	S		
1993-05-04		D	72019	91.60			1	S		
1998-01-22		D	62610		2882.55	NGVD29	1	S		
1998-01-22		D	62611		2884.09	NAVD88	1	S		
1998-01-22		D	72019	89.85			1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
2003-01-27		D	62610		2880.28	NGVD29	1	S	USGS	
2003-01-27		D	62611		2881.82	NAVD88	1	S	USGS	
2003-01-27		D	72019	92.12			1	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320307104005301

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320307104005301 26S.28E.13.11214

Eddy County, New Mexico
Latitude 32°03'07", Longitude 104°00'53" NAD27
Land-surface elevation 2,858 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1948-12-15		D	62610		2796.46	NGVD29	1	Z		
1948-12-15		D	62611		2798.00	NAVD88	1	Z		
1948-12-15		D	72019	60.00			1	Z		
1975-12-09		D	62610		2796.97	NGVD29	1	Z		
1975-12-09		D	62611		2798.51	NAVD88	1	Z		
1975-12-09		D	72019	59.49			1	Z		
1976-01-20		D	62610		2797.89	NGVD29	1	Z		
1976-01-20		D	62611		2799.43	NAVD88	1	Z		
1976-01-20		D	72019	58.57			1	Z		
1977-01-13		D	62610		2802.13	NGVD29	1	Z		
1977-01-13		D	62611		2803.67	NAVD88	1	Z		
1977-01-13		D	72019	54.33			1	Z		
1978-02-23		D	62610		2799.71	NGVD29	1	Z		
1978-02-23		D	62611		2801.25	NAVD88	1	Z		
1978-02-23		D	72019	56.75			1	Z		

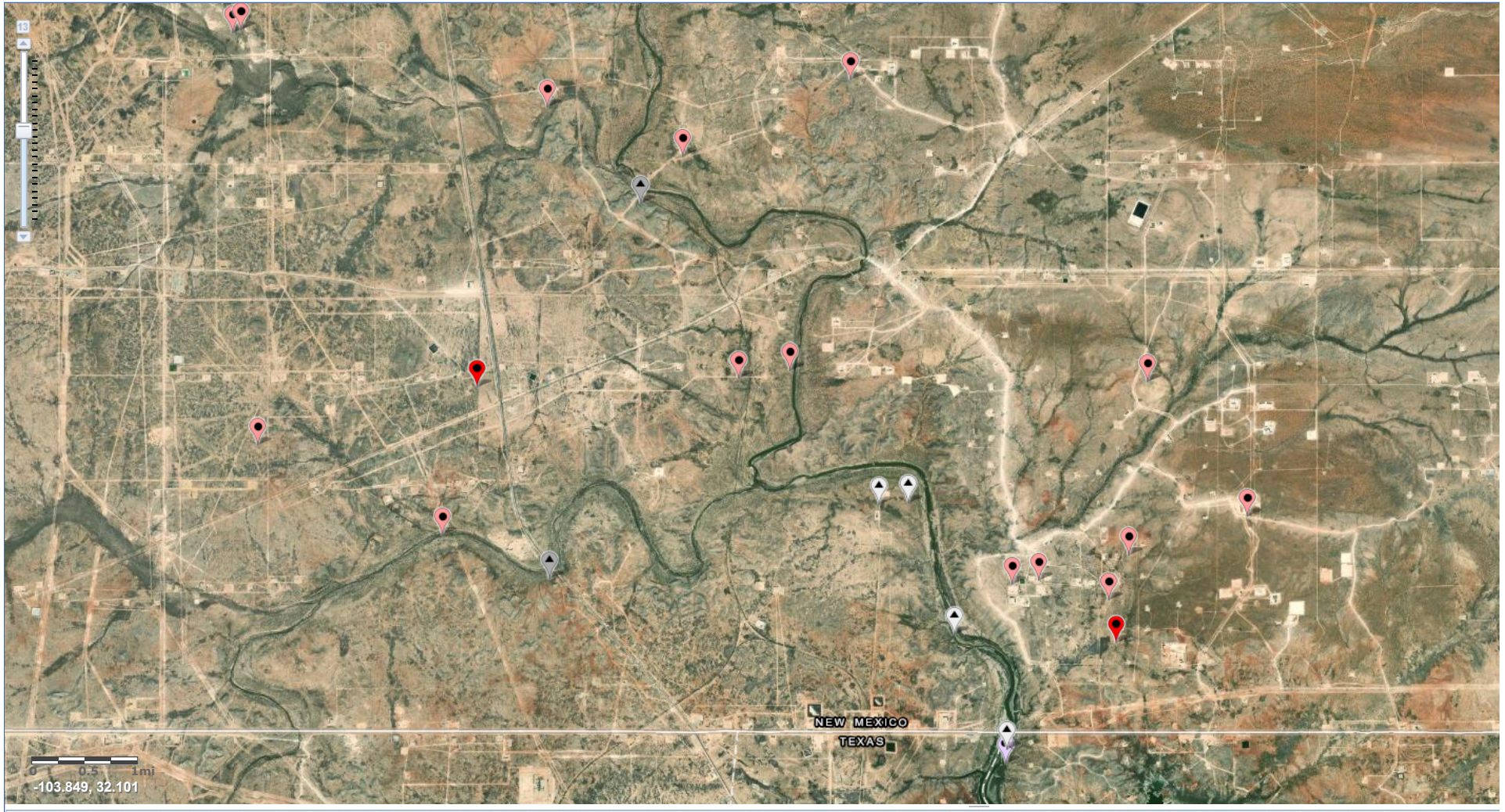
Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1983-01-26		D	62610		2803.36	NGVD29	1	Z		
1983-01-26		D	62611		2804.90	NAVD88	1	Z		
1983-01-26		D	72019	53.10			1	Z		
1987-10-14		D	62610		2801.32	NGVD29	1	Z		
1987-10-14		D	62611		2802.86	NAVD88	1	Z		
1987-10-14		D	72019	55.14			1	Z		
1988-03-22		D	62610		2798.73	NGVD29	1	Z		
1988-03-22		D	62611		2800.27	NAVD88	1	Z		
1988-03-22		D	72019	57.73			1	Z		
1993-01-05		D	62610		2796.63	NGVD29	1	S		
1993-01-05		D	62611		2798.17	NAVD88	1	S		
1993-01-05		D	72019	59.83			1	S		
1998-01-22		D	62610		2803.01	NGVD29	1	S		
1998-01-22		D	62611		2804.55	NAVD88	1	S		
1998-01-22		D	72019	53.45			1	S		
2003-01-27		D	62610		2797.58	NGVD29	1	S	USGS	
2003-01-27		D	62611		2799.12	NAVD88	1	S	USGS	
2003-01-27		D	72019	58.88			1	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

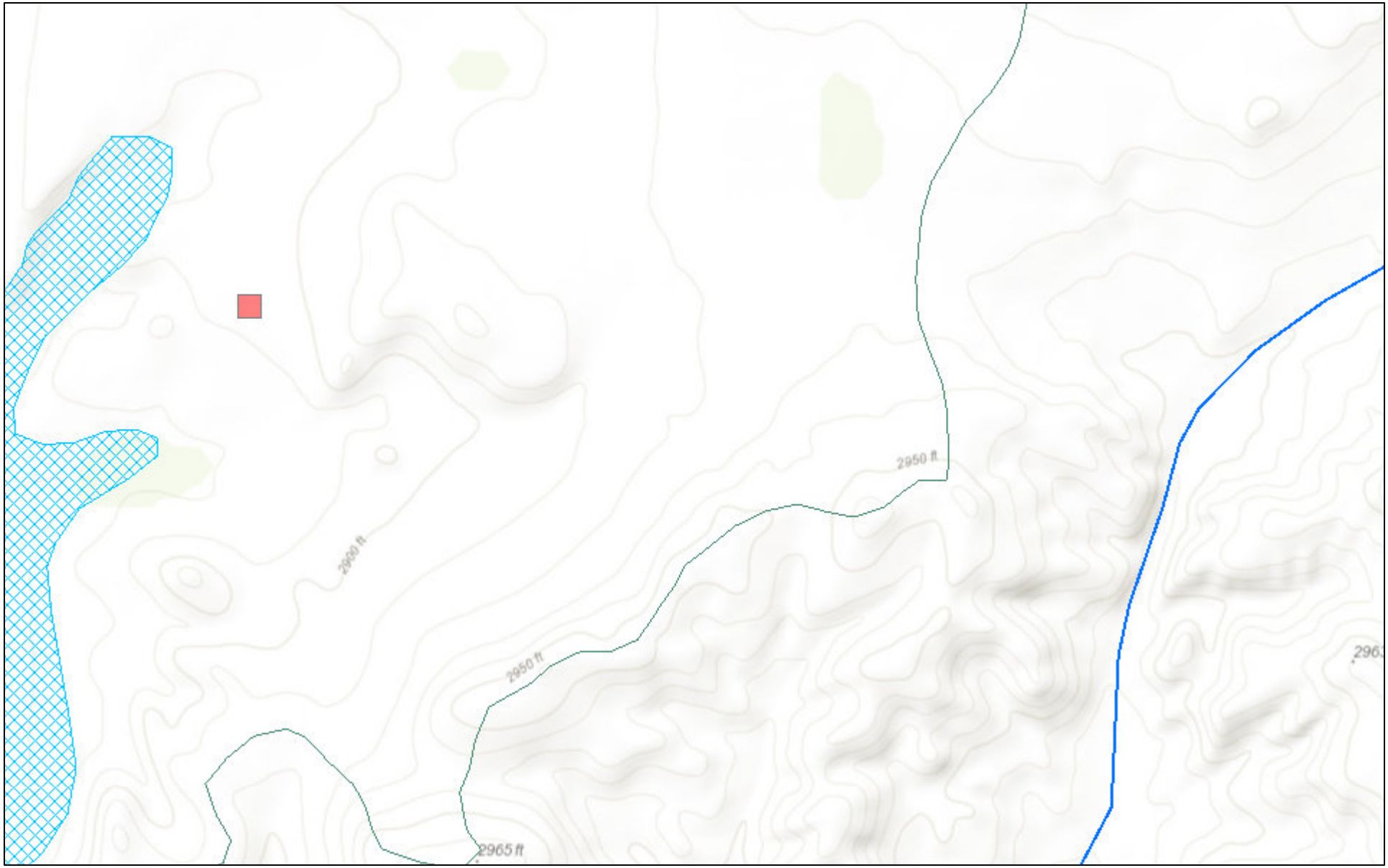
USGS science for a changing world

National Water Information System: Mapper



Site Information

New Mexico NFHL Data



December 7, 2021

1:9,028

0 0.075 0.15 0.3 mi

0 0.1 0.2 0.4 km

FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

nmflood.org is made possible through a collaboration with NMDHSEM, EDAC, and FEMA
This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

Appendix C

CARDINAL Laboratories

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

December 10, 2021

MIKE CARMONA

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: HAMBONE FED 8 CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/08/21 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: H - 1 (0-0.5') (H213544-01)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.90	95.2	2.00	9.59	
Toluene*	<0.050	0.050	12/09/2021	ND	1.87	93.7	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.84	91.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.59	93.1	6.00	9.36	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.3 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	180	90.2	200	0.578	
DRO >C10-C28*	<10.0	10.0	12/09/2021	ND	203	101	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *91.7 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *90.2 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: H - 2 (0-0.5') (H213544-02)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.90	95.2	2.00	9.59	
Toluene*	<0.050	0.050	12/09/2021	ND	1.87	93.7	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.84	91.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.59	93.1	6.00	9.36	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.4 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	180	90.2	200	0.578	
DRO >C10-C28*	<10.0	10.0	12/09/2021	ND	203	101	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *90.9 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *90.4 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: H - 3 (0-0.5') (H213544-03)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.90	95.2	2.00	9.59	
Toluene*	<0.050	0.050	12/09/2021	ND	1.87	93.7	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.84	91.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.59	93.1	6.00	9.36	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.2 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	180	90.2	200	0.578	
DRO >C10-C28*	<10.0	10.0	12/09/2021	ND	203	101	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *88.4 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *88.1 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: H - 4 (0-0.5') (H213544-04)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.90	95.2	2.00	9.59	
Toluene*	<0.050	0.050	12/09/2021	ND	1.87	93.7	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.84	91.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.59	93.1	6.00	9.36	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.0 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	180	90.2	200	0.578	
DRO >C10-C28*	<10.0	10.0	12/09/2021	ND	203	101	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *89.5 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *88.8 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: H - 5 (0-0.5') (H213544-05)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.90	95.2	2.00	9.59	
Toluene*	<0.050	0.050	12/09/2021	ND	1.87	93.7	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.84	91.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.59	93.1	6.00	9.36	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.1 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	180	90.2	200	0.578	
DRO >C10-C28*	<10.0	10.0	12/09/2021	ND	203	101	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *92.3 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *90.7 %* *38.9-142*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: H - 6 (0-0.5') (H213544-06)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.90	95.2	2.00	9.59	
Toluene*	<0.050	0.050	12/09/2021	ND	1.87	93.7	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.84	91.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.59	93.1	6.00	9.36	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.6 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	180	90.2	200	0.578	
DRO >C10-C28*	<10.0	10.0	12/09/2021	ND	203	101	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *83.6 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *83.2 %* *38.9-142*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

NTG ENVIRONMENTAL

Work Order No: H213544

Page 1 of 1

Project Manager:	Mike Carmona	Bill to: (if different)	Jacqui Harris
Company Name:	NTG Environmental	Company Name:	COG
Address:	701 Tradewinds BLVD	Address:	15 W Loving Rd
City, State ZIP:	Midland, TX 79706	City, State ZIP:	Loving,NM 88256
Phone:	432-813-0263	Email:	jacqui.harris@conocophillips.com

Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Hambone Fed 8 CTB	Turn Around	☐ Routine ☑ Rush
Project Number:	Pending	Due Date:	72 Hrs
Project Location	Eddy Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	ES		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	113
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.5°C
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.8°C
Total Containers:		Corrected Temperature:	2.3°C

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

	Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
01	H-1 (0-0.5')	12/8/2021		X		G	1		X	X	X		
02	H-2 (0-0.5')	12/8/2021		X		G	1		X	X	X		
03	H-3 (0-0.5')	12/8/2021		X		G	1		X	X	X		
04	H-4 (0-0.5')	12/8/2021		X		G	1		X	X	X		
05	H-5 (0-0.5')	12/8/2021		X		G	1		X	X	X		
06	H-6 (0-0.5')	12/8/2021		X		G	1		X	X	X		

Additoinal Comments:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Tamara Oldaker	12-8-21 1420	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

CARDINAL Laboratories

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

December 10, 2021

MIKE CARMONA

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: HAMBONE FED 8 CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/08/21 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 1 (0-1') (H213545-01)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.90	95.2	2.00	9.59	
Toluene*	<0.050	0.050	12/09/2021	ND	1.87	93.7	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.84	91.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.59	93.1	6.00	9.36	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.9 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1380**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	12/09/2021	ND	180	90.2	200	0.578	
DRO >C10-C28*	**17500**	50.0	12/09/2021	ND	203	101	200	2.90	
EXT DRO >C28-C36	**4220**	50.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *91.0 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *237 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 1 (1-1.5') (H213545-02)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.90	95.2	2.00	9.59	
Toluene*	<0.050	0.050	12/09/2021	ND	1.87	93.7	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.84	91.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.59	93.1	6.00	9.36	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.0 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1040**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	12/09/2021	ND	180	90.2	200	0.578	
DRO >C10-C28*	**12400**	50.0	12/09/2021	ND	203	101	200	2.90	
EXT DRO >C28-C36	**2560**	50.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *91.9 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *185 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 2 (0-1') (H213545-03)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.90	95.2	2.00	9.59	
Toluene*	<0.050	0.050	12/09/2021	ND	1.87	93.7	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.84	91.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.59	93.1	6.00	9.36	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.5 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5600**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	180	90.2	200	0.578	
DRO >C10-C28*	**268**	10.0	12/09/2021	ND	203	101	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *78.9 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *90.7 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 2 (1-1.5') (H213545-04)

BTEX 8021B mg/kg Analyzed By: MS/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.90	95.2	2.00	9.59	
Toluene*	<0.050	0.050	12/09/2021	ND	1.87	93.7	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.84	91.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.59	93.1	6.00	9.36	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.7 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1480**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	**11.4**	10.0	12/09/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *95.5 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *91.9 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 3 (0-1') (H213545-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**43600**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	**105**	10.0	12/09/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *98.1 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *103 %* *38.9-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 3 (1-1.5') (H213545-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**10300**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	**3970**	10.0	12/09/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	**193**	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *97.2 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *180 %* *38.9-142*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 4 (0-1') (H213545-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.8 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**26000**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	**30.2**	10.0	12/09/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *98.3 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *97.2 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 4 (1-1.5') (H213545-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.3 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2480**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	<10.0	10.0	12/09/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *95.7 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *90.9 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 4 (2-2.5') (H213545-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.7 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	<10.0	10.0	12/09/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *103 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *99.0 %* *38.9-142*

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CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 5 (0-1') (H213545-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.7 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32400**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	**183**	10.0	12/09/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	**22.8**	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *102 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *105 %* *38.9-142*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 5 (1-1.5') (H213545-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.8 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4960**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	**34.4**	10.0	12/09/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/09/2021	ND					

Surrogate: 1-Chlorooctane *99.7 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *95.6 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
MIKE CARMONA
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	12/08/2021	Sampling Date:	12/08/2021
Reported:	12/10/2021	Sampling Type:	Soil
Project Name:	HAMBONE FED 8 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: S - 5 (2-2.5') (H213545-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.8 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**656**	16.0	12/09/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					

Surrogate: 1-Chlorooctane *100 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *95.3 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

NTG ENVIRONMENTAL

Work Order No: H213545

Page 1 of 2

Project Manager:	Mike Carmona	Bill to: (if different)	Jacqui Harris
Company Name:	NTG Environmental	Company Name:	COG
Address:	701 Tradewinds BLVD	Address:	15 W Loving Rd
City, State ZIP:	Midland, TX 79706	City, State ZIP:	Loving,NM 88256
Phone:	432-813-0263	Email:	jacqui.harris@conocophillips.com

Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Hambone Fed 8 CTB	Turn Around	
Project Number:	Pending	☐ Routine	☑ Rush
Project Location	Eddy Co, NM	Due Date:	72 Hrs
Sampler's Name:	ES	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	113
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.5°C
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.8°C
Total Containers:		Corrected Temperature:	2.3°C

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

	Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
1	S-1 (0-1')	12/8/2021		X		G	1		X	X	X		
2	S-1 (1-1.5')	12/8/2021		X		G	1		X	X	X		
3	S-2 (0-1')	12/8/2021		X		G	1		X	X	X		
4	S-2 (1-1.5')	12/8/2021		X		G	1		X	X	X		
5	S-3 (0-1')	12/8/2021		X		G	1		X	X	X		
6	S-3 (1-1.5')	12/8/2021		X		G	1		X	X	X		
7	S-4 (0-1')	12/8/2021		X		G	1		X	X	X		
8	S-4 (1-1.5')	12/8/2021		X		G	1		X	X	X		
9	S-4 (2-2.5')	12/8/2021		X		G	1		X	X	X		
10	S-5 (0-1')	12/8/2021		X		G	1		X	X	X		

Additoinal Comments:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Tamara Oldaker	12-8-21 1420	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Chain of Custody

NTG ENVIRONMENTAL

Work Order No: H213545

Page 1 of 2

Project Manager:	Mike Carmona	Bill to: (if different)	Jacqui Harris
Company Name:	NTG Environmental	Company Name:	COG
Address:	701 Tradewinds BLVD	Address:	15 W Loving Rd
City, State ZIP:	Midland, TX 79706	City, State ZIP:	Loving,NM 88256
Phone:	432-813-0263	Email:	jacqui.harris@conocophillips.com

Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Hambone Fed 8 CTB	Turn Around	
Project Number:	Pending	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date:	72 Hrs
Sampler's Name:	ES	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	113
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.5°c
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.8°c
Total Containers:		Corrected Temperature:	2.3°c

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
11 S-5 (1-1.5')	12/8/2021		X		G	1		X	X	X		
12 S-5 (2-2.5')	12/8/2021		X		G	1		X	X	X		

Additoinal Comments:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Tamara Wallace	12-8-21 1420	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-9872-1
Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: Hambone Fed 8 CTB (11.18.21)

For:
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Mike Carmona

JKRAMER

Authorized for release by:
1/10/2022 4:02:29 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Laboratory Job ID: 880-9872-1
SDG: Eddy Co, NM

Table of Contents

Definitions/Glossary

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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
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: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Job ID: 880-9872-1

Laboratory: Eurofins Xenco

Narrative

Job Narrative
880-9872-1

Receipt
The samples were received on 1/5/2022 9:57 AM. 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

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16036 and analytical batch 880-16037 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16076 and analytical batch 880-16025 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 and precision for preparation batch 880-16090 and analytical batch 880-16214 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: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-9872-1
Date Collected: 01/04/22 00:00
Matrix: Solid
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 13:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 13:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 13:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/05/22 10:15	01/05/22 13:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 13:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/05/22 10:15	01/05/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/05/22 10:15*	*01/05/22 13:39*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/05/22 10:15*	*01/05/22 13:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/06/22 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3960**		49.9		mg/Kg			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/05/22 22:06	1
Diesel Range Organics (Over C10-C28)	**3960**	**F1**	49.9		mg/Kg		01/05/22 10:32	01/05/22 22:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/05/22 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*01/05/22 10:32*	*01/05/22 22:06*	*1*
o-Terphenyl	*92*		*70 - 130*	*01/05/22 10:32*	*01/05/22 22:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11200**		99.8		mg/Kg			01/06/22 02:14	20

Client Sample ID: T-1 (1')

Lab Sample ID: 880-9872-2
Date Collected: 01/04/22 00:00
Matrix: Solid
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 13:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 13:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 13:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/05/22 13:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 13:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/05/22 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/05/22 10:15*	*01/05/22 13:59*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*01/05/22 10:15*	*01/05/22 13:59*	*1*

Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-1 (1')

Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-2
Matrix: Solid

Method: 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			01/06/22 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4560**		50.0		mg/Kg			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/05/22 23:09	1
Diesel Range Organics (Over C10-C28)	**4560**		50.0		mg/Kg		01/05/22 10:32	01/05/22 23:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/05/22 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*01/05/22 10:32*	*01/05/22 23:09*	*1*
o-Terphenyl	*123*		*70 - 130*	*01/05/22 10:32*	*01/05/22 23:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10000**		50.4		mg/Kg			01/06/22 02:50	10

Client Sample ID: T-1 (2')

Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 14:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 14:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 14:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/05/22 10:15	01/05/22 14:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 14:20	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/05/22 10:15	01/05/22 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*01/05/22 10:15*	*01/05/22 14:20*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/05/22 10:15*	*01/05/22 14:20*	*1*

Method: 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			01/06/22 14:50	1

Method: 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			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/05/22 23:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/05/22 23:29	1

Eurofins Xenco

Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-1 (2')

Lab Sample ID: 880-9872-3
Date Collected: 01/04/22 00:00
Matrix: Solid
Date Received: 01/05/22 09:57

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/05/22 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*01/05/22 10:32*	*01/05/22 23:29*	*1*
o-Terphenyl	*103*		*70 - 130*	*01/05/22 10:32*	*01/05/22 23:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		4.98		mg/Kg			01/06/22 03:02	1

Client Sample ID: T-1 (3')

Lab Sample ID: 880-9872-4
Date Collected: 01/04/22 00:00
Matrix: Solid
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 14:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 14:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 14:40	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/05/22 10:15	01/05/22 14:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/05/22 14:40	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/05/22 10:15	01/05/22 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/05/22 10:15*	*01/05/22 14:40*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/05/22 10:15*	*01/05/22 14:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/06/22 14:50	1

Method: 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			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/05/22 23:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/05/22 23:50	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/05/22 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*01/05/22 10:32*	*01/05/22 23:50*	*1*
o-Terphenyl	*108*		*70 - 130*	*01/05/22 10:32*	*01/05/22 23:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**333**		4.95		mg/Kg			01/06/22 03:14	1

Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-9872-5
Date Collected: 01/04/22 00:00
Matrix: Solid
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/05/22 15:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/05/22 15:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/05/22 15:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/05/22 10:15	01/05/22 15:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/05/22 15:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/05/22 10:15	01/05/22 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*01/05/22 10:15*	*01/05/22 15:00*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/05/22 10:15*	*01/05/22 15:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/06/22 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**6310**		50.0		mg/Kg			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 07:23	1
Diesel Range Organics (Over C10-C28)	**6310**		50.0		mg/Kg		01/05/22 10:32	01/06/22 07:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 07:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*01/05/22 10:32*	*01/06/22 07:23*	*1*
o-Terphenyl	*100*		*70 - 130*	*01/05/22 10:32*	*01/06/22 07:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8010**		50.5		mg/Kg			01/06/22 03:25	10

Client Sample ID: T-2 (1')

Lab Sample ID: 880-9872-6
Date Collected: 01/04/22 00:00
Matrix: Solid
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/05/22 15:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/05/22 15:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/05/22 15:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/05/22 10:15	01/05/22 15:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/05/22 15:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/05/22 10:15	01/05/22 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*01/05/22 10:15*	*01/05/22 15:21*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*01/05/22 10:15*	*01/05/22 15:21*	*1*

Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-2 (1')

Lab Sample ID: 880-9872-6
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Method: 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			01/06/22 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**7610**		50.0		mg/Kg			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 07:44	1
Diesel Range Organics (Over C10-C28)	**7610**		50.0		mg/Kg		01/05/22 10:32	01/06/22 07:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 07:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*01/05/22 10:32*	*01/06/22 07:44*	*1*
o-Terphenyl	*119*		*70 - 130*	*01/05/22 10:32*	*01/06/22 07:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10400**		49.8		mg/Kg			01/10/22 15:45	10

Client Sample ID: T-4 (4')

Lab Sample ID: 880-9872-7
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 15:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 15:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 15:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/05/22 15:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 15:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/05/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/05/22 10:15*	*01/05/22 15:41*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/05/22 10:15*	*01/05/22 15:41*	*1*

Method: 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			01/06/22 14:50	1

Method: 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			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 08:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 08:04	1

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Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-4 (4')

Lab Sample ID: 880-9872-7
Date Collected: 01/04/22 00:00
Matrix: Solid
Date Received: 01/05/22 09:57

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 08:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*01/05/22 10:32*	*01/06/22 08:04*	*1*
o-Terphenyl	*112*		*70 - 130*	*01/05/22 10:32*	*01/06/22 08:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2020**		49.7		mg/Kg			01/06/22 04:13	10

Client Sample ID: T-2 (3')

Lab Sample ID: 880-9872-8
Date Collected: 01/04/22 00:00
Matrix: Solid
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 16:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 16:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 16:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/05/22 16:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 16:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/05/22 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/05/22 10:15*	*01/05/22 16:02*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/05/22 10:15*	*01/05/22 16:02*	*1*

Method: 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			01/06/22 14:50	1

Method: 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			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 01:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/06/22 01:12	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/06/22 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*01/05/22 10:32*	*01/06/22 01:12*	*1*
o-Terphenyl	*104*		*70 - 130*	*01/05/22 10:32*	*01/06/22 01:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**319**		4.95		mg/Kg			01/06/22 04:25	1

Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-9872-9
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/05/22 17:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/05/22 17:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/05/22 17:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/05/22 10:15	01/05/22 17:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/05/22 17:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/05/22 10:15	01/05/22 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/05/22 10:15*	*01/05/22 17:52*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/05/22 10:15*	*01/05/22 17:52*	*1*

Method: 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			01/06/22 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**167**		50.0		mg/Kg			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 01:32	1
Diesel Range Organics (Over C10-C28)	**167**		50.0		mg/Kg		01/05/22 10:32	01/06/22 01:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*01/05/22 10:32*	*01/06/22 01:32*	*1*
o-Terphenyl	*107*		*70 - 130*	*01/05/22 10:32*	*01/06/22 01:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12700**		99.0		mg/Kg			01/06/22 04:36	20

Client Sample ID: T-3 (1')

Lab Sample ID: 880-9872-10
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 18:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 18:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 18:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/05/22 18:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 18:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/05/22 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*01/05/22 10:15*	*01/05/22 18:12*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/05/22 10:15*	*01/05/22 18:12*	*1*

Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-3 (1')

Lab Sample ID: 880-9872-10
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Method: 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			01/06/22 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**292**		50.0		mg/Kg			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 01:52	1
Diesel Range Organics (Over C10-C28)	**292**		50.0		mg/Kg		01/05/22 10:32	01/06/22 01:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*01/05/22 10:32*	*01/06/22 01:52*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*01/05/22 10:32*	*01/06/22 01:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9040**		50.4		mg/Kg			01/06/22 04:48	10

Client Sample ID: T-3 (2')

Lab Sample ID: 880-9872-11
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/05/22 18:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/05/22 18:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/05/22 18:33	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/05/22 10:15	01/05/22 18:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/05/22 18:33	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/05/22 10:15	01/05/22 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/05/22 10:15*	*01/05/22 18:33*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/05/22 10:15*	*01/05/22 18:33*	*1*

Method: 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			01/06/22 14:50	1

Method: 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			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 02:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/06/22 02:33	1

Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-3 (2')

Lab Sample ID: 880-9872-11
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/06/22 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*01/05/22 10:32*	*01/06/22 02:33*	*1*
o-Terphenyl	*106*		*70 - 130*	*01/05/22 10:32*	*01/06/22 02:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		4.98		mg/Kg			01/06/22 05:00	1

Client Sample ID: T-3 (3')

Lab Sample ID: 880-9872-12
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 18:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 18:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 18:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/05/22 18:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/05/22 18:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/05/22 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/05/22 10:15*	*01/05/22 18:53*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*01/05/22 10:15*	*01/05/22 18:53*	*1*

Method: 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			01/06/22 14:50	1

Method: 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			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 02:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/06/22 02:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/06/22 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*01/05/22 10:32*	*01/06/22 02:54*	*1*
o-Terphenyl	*108*		*70 - 130*	*01/05/22 10:32*	*01/06/22 02:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**175**		5.00		mg/Kg			01/06/22 05:36	1

Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-4 (0-1')

Lab Sample ID: 880-9872-13
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/05/22 10:15	01/06/22 07:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/05/22 10:15	01/06/22 07:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/05/22 10:15	01/06/22 07:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/05/22 10:15	01/06/22 07:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/05/22 10:15	01/06/22 07:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/05/22 10:15	01/06/22 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/05/22 10:15*	*01/06/22 07:24*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/05/22 10:15*	*01/06/22 07:24*	*1*

Method: 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			01/06/22 14:50	1

Method: 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			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 03:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 03:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*01/05/22 10:32*	*01/06/22 03:14*	*1*
o-Terphenyl	*107*		*70 - 130*	*01/05/22 10:32*	*01/06/22 03:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16200**		99.8		mg/Kg			01/06/22 16:00	20

Client Sample ID: T-4 (1')

Lab Sample ID: 880-9872-14
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/06/22 07:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/06/22 07:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/06/22 07:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/06/22 07:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/05/22 10:15	01/06/22 07:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/05/22 10:15	01/06/22 07:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/05/22 10:15*	*01/06/22 07:44*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/05/22 10:15*	*01/06/22 07:44*	*1*

Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-4 (1')

Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-14
Matrix: Solid

Method: 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			01/06/22 14:50	1

Method: 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			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 03:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 03:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 03:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*01/05/22 10:32*	*01/06/22 03:35*	*1*
o-Terphenyl	*110*		*70 - 130*	*01/05/22 10:32*	*01/06/22 03:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16200**	**F1**	99.8		mg/Kg			01/06/22 20:56	20

Client Sample ID: T-4 (2')

Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/06/22 08:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/06/22 08:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/06/22 08:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/05/22 10:15	01/06/22 08:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/22 10:15	01/06/22 08:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/05/22 10:15	01/06/22 08:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*01/05/22 10:15*	*01/06/22 08:05*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/05/22 10:15*	*01/06/22 08:05*	*1*

Method: 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			01/06/22 14:50	1

Method: 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			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 03:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 03:55	1

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Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-4 (2')

Lab Sample ID: 880-9872-15
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*01/05/22 10:32*	*01/06/22 03:55*	*1*
o-Terphenyl	*104*		*70 - 130*	*01/05/22 10:32*	*01/06/22 03:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**106**		5.04		mg/Kg			01/06/22 21:19	1

Client Sample ID: T-4 (3')

Lab Sample ID: 880-9872-16
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/06/22 08:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/06/22 08:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/06/22 08:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/05/22 10:15	01/06/22 08:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/05/22 10:15	01/06/22 08:25	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/05/22 10:15	01/06/22 08:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/05/22 10:15*	*01/06/22 08:25*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*01/05/22 10:15*	*01/06/22 08:25*	*1*

Method: 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			01/06/22 14:50	1

Method: 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			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/06/22 04:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/05/22 10:32	01/06/22 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*01/05/22 10:32*	*01/06/22 04:16*	*1*
o-Terphenyl	*106*		*70 - 130*	*01/05/22 10:32*	*01/06/22 04:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.7**		4.98		mg/Kg			01/06/22 21:27	1

Client Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-4 (4')

Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-17

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/06/22 08:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/06/22 08:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/06/22 08:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/05/22 10:15	01/06/22 08:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/05/22 10:15	01/06/22 08:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/05/22 10:15	01/06/22 08:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/05/22 10:15*	*01/06/22 08:46*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/05/22 10:15*	*01/06/22 08:46*	*1*

Method: 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			01/06/22 14:50	1

Method: 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			01/06/22 15:12	1

Method: 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		01/05/22 10:32	01/06/22 04:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 04:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/06/22 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*01/05/22 10:32*	*01/06/22 04:36*	*1*
o-Terphenyl	*108*		*70 - 130*	*01/05/22 10:32*	*01/06/22 04:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.3**		4.95		mg/Kg			01/06/22 21:35	1

Surrogate Summary

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy 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 (70-130)	DFBZ1 (70-130)										
880-9834-A-1-B MS	Matrix Spike	123	106										
880-9834-A-1-C MSD	Matrix Spike Duplicate	147 S1+	98										
880-9872-1	T-1 (0-1')	109	106										
880-9872-2	T-1 (1')	114	111										
880-9872-3	T-1 (2')	125	99										
880-9872-4	T-1 (3')	119	97										
880-9872-5	T-2 (0-1')	130	96										
880-9872-6	T-2 (1')	91	111										
880-9872-7	T-4 (4')	116	104										
880-9872-8	T-2 (3')	110	97										
880-9872-9	T-3 (0-1')	111	105										
880-9872-10	T-3 (1')	122	101										
880-9872-11	T-3 (2')	114	96										
880-9872-12	T-3 (3')	86	112										
880-9872-13	T-4 (0-1')	109	97										
880-9872-14	T-4 (1')	106	98										
880-9872-15	T-4 (2')	132 S1+	101										
880-9872-16	T-4 (3')	96	87										
880-9872-17	T-4 (4')	118	96										
LCS 880-16036/1-A	Lab Control Sample	124	114										
LCSD 880-16036/2-A	Lab Control Sample Dup	117	110										
MB 880-16036/5-A	Method Blank	125	107										

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)										
880-9872-1	T-1 (0-1')	99	92										
880-9872-1 MS	T-1 (0-1')	91	91										
880-9872-1 MSD	T-1 (0-1')	99	93										
880-9872-2	T-1 (1')	130	123										
880-9872-3	T-1 (2')	105	103										
880-9872-4	T-1 (3')	110	108										
880-9872-5	T-2 (0-1')	103	100										
880-9872-6	T-2 (1')	117	119										
880-9872-7	T-4 (4')	110	112										
880-9872-8	T-2 (3')	107	104										
880-9872-9	T-3 (0-1')	110	107										
880-9872-10	T-3 (1')	131 S1+	131 S1+										
880-9872-11	T-3 (2')	106	106										
880-9872-12	T-3 (3')	107	108										
880-9872-13	T-4 (0-1')	109	107										
880-9872-14	T-4 (1')	110	110										
880-9872-15	T-4 (2')	105	104										

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Surrogate Summary

Client: NT Global
Job ID: 880-9872-1
Project/Site: Hambone Fed 8 CTB (11.18.21)
SDG: Eddy Co, NM

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
880-9872-16	T-4 (3')	106	106								
880-9872-17	T-4 (4')	107	108								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO2	OTPH2								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCS 880-16076/2-A	Lab Control Sample	88	84								
LCSD 880-16076/3-A	Lab Control Sample Dup	92	86								
MB 880-16076/1-A	Method Blank	93	83								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16036/5-A
Matrix: Solid
Analysis Batch: 16037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:51	01/05/22 11:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:51	01/05/22 11:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:51	01/05/22 11:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/05/22 07:51	01/05/22 11:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:51	01/05/22 11:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/05/22 07:51	01/05/22 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*01/05/22 07:51*	*01/05/22 11:51*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/05/22 07:51*	*01/05/22 11:51*	*1*

Lab Sample ID: LCS 880-16036/1-A
Matrix: Solid
Analysis Batch: 16037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07329		mg/Kg		73	70 - 130
Toluene	0.100	0.08331		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.09773		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1798		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08924		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-16036/2-A
Matrix: Solid
Analysis Batch: 16037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07378		mg/Kg		74	70 - 130	1	35
Toluene	0.100	0.07754		mg/Kg		78	70 - 130	7	35
Ethylbenzene	0.100	0.09040		mg/Kg		90	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1716		mg/Kg		86	70 - 130	5	35
o-Xylene	0.100	0.09083		mg/Kg		91	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-9834-A-1-B MS
Matrix: Solid
Analysis Batch: 16037

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 16036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F2 F1	0.100	0.07835		mg/Kg		78	70 - 130
Toluene	<0.00200	U F2 F1	0.100	0.06934	F1	mg/Kg		69	70 - 130

QC Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-9834-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16037 — **Prep Batch: 16036**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U F1	0.100	0.08013		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1547		mg/Kg		77	70 - 130
o-Xylene	<0.00200	U	0.100	0.07400		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-9834-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16037 — **Prep Batch: 16036**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.100	0.03918	F2 F1	mg/Kg		39	70 - 130	67	35
Toluene	<0.00200	U F2 F1	0.100	0.02227	F2 F1	mg/Kg		22	70 - 130	103	35
Ethylbenzene	<0.00200	U F1	0.100	0.06417	F1	mg/Kg		64	70 - 130	22	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1585		mg/Kg		79	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.1002		mg/Kg		100	70 - 130	30	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-16076/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16025 — **Prep Batch: 16076**

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		01/05/22 10:32	01/05/22 21:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/05/22 21:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 10:32	01/05/22 21:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*01/05/22 10:32*	*01/05/22 21:03*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/05/22 10:32*	*01/05/22 21:03*	*1*

Lab Sample ID: LCS 880-16076/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16025 — **Prep Batch: 16076**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	899.1		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	838.4		mg/Kg		84	70 - 130

QC Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-16076/2-A
Matrix: Solid
Analysis Batch: 16025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16076

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-16076/3-A
Matrix: Solid
Analysis Batch: 16025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16076

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	910.4		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	781.0		mg/Kg		78	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-9872-1 MS
Matrix: Solid
Analysis Batch: 16025

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 16076

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	923.7		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	3960	F1	996	4426	F1	mg/Kg		47	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 880-9872-1 MSD
Matrix: Solid
Analysis Batch: 16025

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 16076

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	999	967.6		mg/Kg		95	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	3960	F1	999	4522	F1	mg/Kg		56	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	93		70 - 130

QC Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16089/1-A
Matrix: Solid
Analysis Batch: 16106

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			01/06/22 01:39	1

Lab Sample ID: LCS 880-16089/2-A
Matrix: Solid
Analysis Batch: 16106

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	261.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-16089/3-A
Matrix: Solid
Analysis Batch: 16106

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	260.2		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-9872-1 MS
Matrix: Solid
Analysis Batch: 16106

Client Sample ID: T-1 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11200		4990	16040		mg/Kg		98	90 - 110

Lab Sample ID: 880-9872-1 MSD
Matrix: Solid
Analysis Batch: 16106

Client Sample ID: T-1 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	11200		4990	16330		mg/Kg		104	90 - 110	2	20

Lab Sample ID: 880-9872-11 MS
Matrix: Solid
Analysis Batch: 16106

Client Sample ID: T-3 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	315		250	573.0		mg/Kg		103	90 - 110

Lab Sample ID: 880-9872-11 MSD
Matrix: Solid
Analysis Batch: 16106

Client Sample ID: T-3 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	315		250	567.5		mg/Kg		101	90 - 110	1	20

Lab Sample ID: MB 880-16090/1-A
Matrix: Solid
Analysis Batch: 16214

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			01/06/22 20:32	1

QC Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-16090/2-A
Matrix: Solid
Analysis Batch: 16214

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	234.1		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-16090/3-A
Matrix: Solid
Analysis Batch: 16214

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	238.8		mg/Kg		96	90 - 110	2	20

Lab Sample ID: 880-9872-14 MS
Matrix: Solid
Analysis Batch: 16214

Client Sample ID: T-4 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	16200	F1	4990	20290	F1	mg/Kg		83	90 - 110		

Lab Sample ID: 880-9872-14 MSD
Matrix: Solid
Analysis Batch: 16214

Client Sample ID: T-4 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16200	F1	4990	19750	F1	mg/Kg		72	90 - 110	3	20

Lab Sample ID: MB 880-16345/1-A
Matrix: Solid
Analysis Batch: 16431

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			01/10/22 11:48	1

Lab Sample ID: LCS 880-16345/2-A
Matrix: Solid
Analysis Batch: 16431

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	259.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-16345/3-A
Matrix: Solid
Analysis Batch: 16431

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	255.8		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-9992-A-4-C MS
Matrix: Solid
Analysis Batch: 16431

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	4350		1250	5495		mg/Kg		92	90 - 110		

QC Sample Results

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-9992-A-4-D MSD
Matrix: Solid
Analysis Batch: 16431

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4350		1250	5500		mg/Kg		92	90 - 110	0	20

QC Association Summary

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 16036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-1	T-1 (0-1')	Total/NA	Solid	5035	
880-9872-2	T-1 (1')	Total/NA	Solid	5035	
880-9872-3	T-1 (2')	Total/NA	Solid	5035	
880-9872-4	T-1 (3')	Total/NA	Solid	5035	
880-9872-5	T-2 (0-1')	Total/NA	Solid	5035	
880-9872-6	T-2 (1')	Total/NA	Solid	5035	
880-9872-7	T-4 (4')	Total/NA	Solid	5035	
880-9872-8	T-2 (3')	Total/NA	Solid	5035	
880-9872-9	T-3 (0-1')	Total/NA	Solid	5035	
880-9872-10	T-3 (1')	Total/NA	Solid	5035	
880-9872-11	T-3 (2')	Total/NA	Solid	5035	
880-9872-12	T-3 (3')	Total/NA	Solid	5035	
880-9872-13	T-4 (0-1')	Total/NA	Solid	5035	
880-9872-14	T-4 (1')	Total/NA	Solid	5035	
880-9872-15	T-4 (2')	Total/NA	Solid	5035	
880-9872-16	T-4 (3')	Total/NA	Solid	5035	
880-9872-17	T-4 (4')	Total/NA	Solid	5035	
MB 880-16036/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16036/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16036/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9834-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-9834-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-1	T-1 (0-1')	Total/NA	Solid	8021B	16036
880-9872-2	T-1 (1')	Total/NA	Solid	8021B	16036
880-9872-3	T-1 (2')	Total/NA	Solid	8021B	16036
880-9872-4	T-1 (3')	Total/NA	Solid	8021B	16036
880-9872-5	T-2 (0-1')	Total/NA	Solid	8021B	16036
880-9872-6	T-2 (1')	Total/NA	Solid	8021B	16036
880-9872-7	T-4 (4')	Total/NA	Solid	8021B	16036
880-9872-8	T-2 (3')	Total/NA	Solid	8021B	16036
880-9872-9	T-3 (0-1')	Total/NA	Solid	8021B	16036
880-9872-10	T-3 (1')	Total/NA	Solid	8021B	16036
880-9872-11	T-3 (2')	Total/NA	Solid	8021B	16036
880-9872-12	T-3 (3')	Total/NA	Solid	8021B	16036
880-9872-13	T-4 (0-1')	Total/NA	Solid	8021B	16036
880-9872-14	T-4 (1')	Total/NA	Solid	8021B	16036
880-9872-15	T-4 (2')	Total/NA	Solid	8021B	16036
880-9872-16	T-4 (3')	Total/NA	Solid	8021B	16036
880-9872-17	T-4 (4')	Total/NA	Solid	8021B	16036
MB 880-16036/5-A	Method Blank	Total/NA	Solid	8021B	16036
LCS 880-16036/1-A	Lab Control Sample	Total/NA	Solid	8021B	16036
LCSD 880-16036/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16036
880-9834-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	16036
880-9834-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16036

Analysis Batch: 16167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 16167 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-2	T-1 (1')	Total/NA	Solid	Total BTEX	
880-9872-3	T-1 (2')	Total/NA	Solid	Total BTEX	
880-9872-4	T-1 (3')	Total/NA	Solid	Total BTEX	
880-9872-5	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-9872-6	T-2 (1')	Total/NA	Solid	Total BTEX	
880-9872-7	T-4 (4')	Total/NA	Solid	Total BTEX	
880-9872-8	T-2 (3')	Total/NA	Solid	Total BTEX	
880-9872-9	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-9872-10	T-3 (1')	Total/NA	Solid	Total BTEX	
880-9872-11	T-3 (2')	Total/NA	Solid	Total BTEX	
880-9872-12	T-3 (3')	Total/NA	Solid	Total BTEX	
880-9872-13	T-4 (0-1')	Total/NA	Solid	Total BTEX	
880-9872-14	T-4 (1')	Total/NA	Solid	Total BTEX	
880-9872-15	T-4 (2')	Total/NA	Solid	Total BTEX	
880-9872-16	T-4 (3')	Total/NA	Solid	Total BTEX	
880-9872-17	T-4 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 16025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-1	T-1 (0-1')	Total/NA	Solid	8015B NM	16076
880-9872-2	T-1 (1')	Total/NA	Solid	8015B NM	16076
880-9872-3	T-1 (2')	Total/NA	Solid	8015B NM	16076
880-9872-4	T-1 (3')	Total/NA	Solid	8015B NM	16076
880-9872-5	T-2 (0-1')	Total/NA	Solid	8015B NM	16076
880-9872-6	T-2 (1')	Total/NA	Solid	8015B NM	16076
880-9872-7	T-4 (4')	Total/NA	Solid	8015B NM	16076
880-9872-8	T-2 (3')	Total/NA	Solid	8015B NM	16076
880-9872-9	T-3 (0-1')	Total/NA	Solid	8015B NM	16076
880-9872-10	T-3 (1')	Total/NA	Solid	8015B NM	16076
880-9872-11	T-3 (2')	Total/NA	Solid	8015B NM	16076
880-9872-12	T-3 (3')	Total/NA	Solid	8015B NM	16076
880-9872-13	T-4 (0-1')	Total/NA	Solid	8015B NM	16076
880-9872-14	T-4 (1')	Total/NA	Solid	8015B NM	16076
880-9872-15	T-4 (2')	Total/NA	Solid	8015B NM	16076
880-9872-16	T-4 (3')	Total/NA	Solid	8015B NM	16076
880-9872-17	T-4 (4')	Total/NA	Solid	8015B NM	16076
MB 880-16076/1-A	Method Blank	Total/NA	Solid	8015B NM	16076
LCS 880-16076/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16076
LCSD 880-16076/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16076
880-9872-1 MS	T-1 (0-1')	Total/NA	Solid	8015B NM	16076
880-9872-1 MSD	T-1 (0-1')	Total/NA	Solid	8015B NM	16076

Prep Batch: 16076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-9872-2	T-1 (1')	Total/NA	Solid	8015NM Prep	
880-9872-3	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-9872-4	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-9872-5	T-2 (0-1')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 16076 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-6	T-2 (1')	Total/NA	Solid	8015NM Prep	
880-9872-7	T-4 (4')	Total/NA	Solid	8015NM Prep	
880-9872-8	T-2 (3')	Total/NA	Solid	8015NM Prep	
880-9872-9	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-9872-10	T-3 (1')	Total/NA	Solid	8015NM Prep	
880-9872-11	T-3 (2')	Total/NA	Solid	8015NM Prep	
880-9872-12	T-3 (3')	Total/NA	Solid	8015NM Prep	
880-9872-13	T-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-9872-14	T-4 (1')	Total/NA	Solid	8015NM Prep	
880-9872-15	T-4 (2')	Total/NA	Solid	8015NM Prep	
880-9872-16	T-4 (3')	Total/NA	Solid	8015NM Prep	
880-9872-17	T-4 (4')	Total/NA	Solid	8015NM Prep	
MB 880-16076/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16076/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16076/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9872-1 MS	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-9872-1 MSD	T-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-9872-2	T-1 (1')	Total/NA	Solid	8015 NM	
880-9872-3	T-1 (2')	Total/NA	Solid	8015 NM	
880-9872-4	T-1 (3')	Total/NA	Solid	8015 NM	
880-9872-5	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-9872-6	T-2 (1')	Total/NA	Solid	8015 NM	
880-9872-7	T-4 (4')	Total/NA	Solid	8015 NM	
880-9872-8	T-2 (3')	Total/NA	Solid	8015 NM	
880-9872-9	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-9872-10	T-3 (1')	Total/NA	Solid	8015 NM	
880-9872-11	T-3 (2')	Total/NA	Solid	8015 NM	
880-9872-12	T-3 (3')	Total/NA	Solid	8015 NM	
880-9872-13	T-4 (0-1')	Total/NA	Solid	8015 NM	
880-9872-14	T-4 (1')	Total/NA	Solid	8015 NM	
880-9872-15	T-4 (2')	Total/NA	Solid	8015 NM	
880-9872-16	T-4 (3')	Total/NA	Solid	8015 NM	
880-9872-17	T-4 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-9872-2	T-1 (1')	Soluble	Solid	DI Leach	
880-9872-3	T-1 (2')	Soluble	Solid	DI Leach	
880-9872-4	T-1 (3')	Soluble	Solid	DI Leach	
880-9872-5	T-2 (0-1')	Soluble	Solid	DI Leach	
880-9872-7	T-4 (4')	Soluble	Solid	DI Leach	
880-9872-8	T-2 (3')	Soluble	Solid	DI Leach	
880-9872-9	T-3 (0-1')	Soluble	Solid	DI Leach	
880-9872-10	T-3 (1')	Soluble	Solid	DI Leach	

QC Association Summary

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 16089 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-11	T-3 (2')	Soluble	Solid	DI Leach	
880-9872-12	T-3 (3')	Soluble	Solid	DI Leach	
880-9872-13	T-4 (0-1')	Soluble	Solid	DI Leach	
MB 880-16089/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16089/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16089/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9872-1 MS	T-1 (0-1')	Soluble	Solid	DI Leach	
880-9872-1 MSD	T-1 (0-1')	Soluble	Solid	DI Leach	
880-9872-11 MS	T-3 (2')	Soluble	Solid	DI Leach	
880-9872-11 MSD	T-3 (2')	Soluble	Solid	DI Leach	

Leach Batch: 16090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-14	T-4 (1')	Soluble	Solid	DI Leach	
880-9872-15	T-4 (2')	Soluble	Solid	DI Leach	
880-9872-16	T-4 (3')	Soluble	Solid	DI Leach	
880-9872-17	T-4 (4')	Soluble	Solid	DI Leach	
MB 880-16090/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16090/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16090/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9872-14 MS	T-4 (1')	Soluble	Solid	DI Leach	
880-9872-14 MSD	T-4 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 16106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-1	T-1 (0-1')	Soluble	Solid	300.0	16089
880-9872-2	T-1 (1')	Soluble	Solid	300.0	16089
880-9872-3	T-1 (2')	Soluble	Solid	300.0	16089
880-9872-4	T-1 (3')	Soluble	Solid	300.0	16089
880-9872-5	T-2 (0-1')	Soluble	Solid	300.0	16089
880-9872-7	T-4 (4')	Soluble	Solid	300.0	16089
880-9872-8	T-2 (3')	Soluble	Solid	300.0	16089
880-9872-9	T-3 (0-1')	Soluble	Solid	300.0	16089
880-9872-10	T-3 (1')	Soluble	Solid	300.0	16089
880-9872-11	T-3 (2')	Soluble	Solid	300.0	16089
880-9872-12	T-3 (3')	Soluble	Solid	300.0	16089
880-9872-13	T-4 (0-1')	Soluble	Solid	300.0	16089
MB 880-16089/1-A	Method Blank	Soluble	Solid	300.0	16089
LCS 880-16089/2-A	Lab Control Sample	Soluble	Solid	300.0	16089
LCSD 880-16089/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16089
880-9872-1 MS	T-1 (0-1')	Soluble	Solid	300.0	16089
880-9872-1 MSD	T-1 (0-1')	Soluble	Solid	300.0	16089
880-9872-11 MS	T-3 (2')	Soluble	Solid	300.0	16089
880-9872-11 MSD	T-3 (2')	Soluble	Solid	300.0	16089

Analysis Batch: 16214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-14	T-4 (1')	Soluble	Solid	300.0	16090
880-9872-15	T-4 (2')	Soluble	Solid	300.0	16090
880-9872-16	T-4 (3')	Soluble	Solid	300.0	16090
880-9872-17	T-4 (4')	Soluble	Solid	300.0	16090

QC Association Summary

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Analysis Batch: 16214 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16090/1-A	Method Blank	Soluble	Solid	300.0	16090
LCS 880-16090/2-A	Lab Control Sample	Soluble	Solid	300.0	16090
LCSD 880-16090/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16090
880-9872-14 MS	T-4 (1')	Soluble	Solid	300.0	16090
880-9872-14 MSD	T-4 (1')	Soluble	Solid	300.0	16090

Leach Batch: 16345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-6	T-2 (1')	Soluble	Solid	DI Leach	
MB 880-16345/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16345/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16345/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9992-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9992-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 16431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9872-6	T-2 (1')	Soluble	Solid	300.0	16345
MB 880-16345/1-A	Method Blank	Soluble	Solid	300.0	16345
LCS 880-16345/2-A	Lab Control Sample	Soluble	Solid	300.0	16345
LCSD 880-16345/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16345
880-9992-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	16345
880-9992-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16345

Lab Chronicle

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-9872-1
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 13:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/05/22 22:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		20			16106	01/06/22 02:14	CH	XEN MID

Client Sample ID: T-1 (1')

Lab Sample ID: 880-9872-2
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

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	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 13:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/05/22 23:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		10			16106	01/06/22 02:50	CH	XEN MID

Client Sample ID: T-1 (2')

Lab Sample ID: 880-9872-3
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

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	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 14:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/05/22 23:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			16106	01/06/22 03:02	CH	XEN MID

Client Sample ID: T-1 (3')

Lab Sample ID: 880-9872-4
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 14:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID

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Lab Chronicle

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-1 (3')

Lab Sample ID: 880-9872-4
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

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			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/05/22 23:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			16106	01/06/22 03:14	CH	XEN MID

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-9872-5
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 15:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 07:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		10			16106	01/06/22 03:25	CH	XEN MID

Client Sample ID: T-2 (1')

Lab Sample ID: 880-9872-6
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

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	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 15:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 07:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16345	01/10/22 08:31	CH	XEN MID
Soluble	Analysis	300.0		10			16431	01/10/22 15:45	CH	XEN MID

Client Sample ID: T-4 (4')

Lab Sample ID: 880-9872-7
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

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	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 15:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 08:04	AJ	XEN MID

Lab Chronicle

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-4 (4')

Lab Sample ID: 880-9872-7
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		10			16106	01/06/22 04:13	CH	XEN MID

Client Sample ID: T-2 (3')

Lab Sample ID: 880-9872-8
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

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	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 16:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 01:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			16106	01/06/22 04:25	CH	XEN MID

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-9872-9
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

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	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 17:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 01:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		20			16106	01/06/22 04:36	CH	XEN MID

Client Sample ID: T-3 (1')

Lab Sample ID: 880-9872-10
Matrix: Solid
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

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	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 18:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 01:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		10			16106	01/06/22 04:48	CH	XEN MID

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Lab Chronicle

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-3 (2')
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-11
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			5.04 g	5 mL	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 18:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 02:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			16106	01/06/22 05:00	CH	XEN MID

Client Sample ID: T-3 (3')
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-12
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			5.02 g	5 mL	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/05/22 18:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 02:54	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		1			16106	01/06/22 05:36	CH	XEN MID

Client Sample ID: T-4 (0-1')
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-13
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			4.98 g	5 mL	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/06/22 07:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 03:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16089	01/05/22 11:32	CH	XEN MID
Soluble	Analysis	300.0		20			16106	01/06/22 16:00	CH	XEN MID

Client Sample ID: T-4 (1')
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-14
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			5.03 g	5 mL	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/06/22 07:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID

Eurofins Xenco

Lab Chronicle

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-4 (1')
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-14
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			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 03:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16090	01/05/22 11:34	CH	XEN MID
Soluble	Analysis	300.0		20			16214	01/06/22 20:56	CH	XEN MID

Client Sample ID: T-4 (2')
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-15
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			4.99 g	5 mL	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/06/22 08:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 03:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16090	01/05/22 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			16214	01/06/22 21:19	CH	XEN MID

Client Sample ID: T-4 (3')
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-16
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			4.96 g	5 mL	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/06/22 08:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 04:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16090	01/05/22 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			16214	01/06/22 21:27	CH	XEN MID

Client Sample ID: T-4 (4')
Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-17
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			5.05 g	5 mL	16036	01/05/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16037	01/06/22 08:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16167	01/06/22 14:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16076	01/05/22 10:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16025	01/06/22 04:36	AJ	XEN MID

Eurofins Xenco

Lab Chronicle

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Client Sample ID: T-4 (4')

Date Collected: 01/04/22 00:00
Date Received: 01/05/22 09:57

Lab Sample ID: 880-9872-17

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			5.05 g	50 mL	16090	01/05/22 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			16214	01/06/22 21:35	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Laboratory: Eurofins Xenco

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

Client: NT Global
Project/Site: Hambone Fed 8 CTB (11.18.21)

Job ID: 880-9872-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-9872-1	T-1 (0-1')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-2	T-1 (1')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-3	T-1 (2')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-4	T-1 (3')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-5	T-2 (0-1')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-6	T-2 (1')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-7	T-4 (4')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-8	T-2 (3')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-9	T-3 (0-1')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-10	T-3 (1')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-11	T-3 (2')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-12	T-3 (3')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-13	T-4 (0-1')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-14	T-4 (1')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-15	T-4 (2')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-16	T-4 (3')	Solid	01/04/22 00:00	01/05/22 09:57
880-9872-17	T-4 (4')	Solid	01/04/22 00:00	01/05/22 09:57

NTG ENVIRONMENTAL

Chain of Custody

880-9872 Chain of Custody

Page 1 of 2

Project Manager:	Mike Carmona	Bill to (if different)	Jacqui Harris
Company Name:	NTG Environmental	Company Name:	COG
Address:	701 Tradewinds BLVD	Address:	15 W Loving Rd
City, State ZIP:	Midland, TX 79706	City, State ZIP:	Loving, NM 88256
Phone:	432-813-0263	Email	jacqui.harris@conocophillips.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Hambone Fed 8 CTB (11 18 21)	Turn Around	
Project Number:	214971	☐ Routine	☑ Rush
Project Location	Eddy Co, NM	Due Date	72 HRS
Sampler's Name:	CM	TAT starts the day received by the lab if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank: Yes (No)	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID: IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor: .10
Sample Custody Seals:	Yes No (N/A)	Temperature Reading: -1.3
Total Containers:		Corrected Temperature: -1.4

ANALYSIS REQUEST — Parameters: BTEX 8021B; TPH 8015M (GRO + DRO + MRO); Chloride 300.0; HOLD

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
T-1 (0-1')	1/4/2022		X		G	1	X	X	X	4oz
T-1 (1')	1/4/2022		X		G	1	X	X	X	
T-1 (2')	1/4/2022		X		G	1	X	X	X	
T-1 (3')	1/4/2022		X		G	1	X	X	X	
T-2 (0-1')	1/4/2022		X		G	1	X	X	X	
T-2 (1')	1/4/2022		X		G	1	X	X	X	
T-4 (4')	1/4/2022		X		G	1	X	X	X	
T-2 (3')	1/4/2022		X		G	1	X	X	X	
T-3 (0-1')	1/4/2022		X		G	1	X	X	X	
T-3 (1')	1/4/2022		X		G	1	X	X	X	

Preservative Codes

None NO — DI Water: H_2O
Cool Cool — MeOH Me
HCL HC — HNO_3 HN
H_2SO_4 H_2 — NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Additoinal 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 [signature]	[signature]	1/5/22 957	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

Chain of Custody

NTG ENVIRONMENTAL

Work Order No: 9872

Page 2 of 2

Project Manager	Mike Carmona	Bill to. (if different)	Jacqui Harris
Company Name.	NTG Environmental	Company Name.	COG
Address:	701 Tradewinds BLVD	Address.	15 W London Rd
City, State ZIP	Midland, TX 79706	City, State ZIP	Loving NM 88256
Phone:	432-813-0263	Email	jacqui.harris@conocophillips.com

Work Order Comments

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

State of Project:

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

Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name.	Hambone Fed 8 CTB (11 18 21)	Turn Around	☐ Routine ☑ Rush
Project Number	214971	Due Date	72 HRS
Project Location	Eddy Co, NM	TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name:	CM		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice	(Yes) No
Received Intact:	(Yes) No	Thermometer ID	IR8
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	+.10
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	-1.3
Total Containers.		Corrected Temperature:	-1.4

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4. H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$. $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	HOLD	Sample Comments
T-3 (2')	1/4/2022		X		G	1		X	X	X		
T-3 (3')	1/4/2022		X		G	1		X	X	X		
T-4 (0-1')	1/4/2022		X		G	1		X	X	X		
T-4 (1')	1/4/2022		X		G	1		X	X	X		
T-4 (2')	1/4/2022		X		G	1		X	X	X		
T-4 (3')	1/4/2022		X		G	1		X	X	X		
T-4 (4')	1/4/2022		X		G	1		X	X	X		

Additoinal 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		1/5/22 957	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-9872-1
SDG Number: Eddy Co, NM

Login Number: 9872
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Xenco

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.	N/A	No time on COC, logged in per container labels.
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	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 82272

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 82272
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions: Composite sidewall and bottom hole samples will be collected every 200 square feet.	2/28/2022