



Site Information

Closure Report

**Asio Otus CTB (05.29.21)
Eddy County, New Mexico
Unit K Sec 18 T26S R27E
Incident #: NAPP2116527874
32.040876°, -104.231729°**

Crude Oil Release

**Source: Equipment malfunction at the flare
Release Date: 5/29/2021
Volume Released: 0.25 bbls/Crude Oil
Volume Recovered: 0 bbls/Crude Oil**

Prepared for:

**ConocoPhillips Resources
15 West London Rd
Loving, NM 88256**

Prepared by:

**NTG Environmental
701 Tradewinds Blvd
Suite C
Midland, TX 79706**



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

September 16, 2021

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

Re: Closure Report
Asio Otus Central Tank Battery (5.29.2021)
Concho Operating, LLC
Site Location: Unit K, S18, T26S, R27E
(Lat 32.040876, Long -104.231729)
Eddy County, New Mexico

To whom it may concern:

On behalf of Concho Operating, LLC (COG), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment and remediation activities for Asio Otus Central Tank Battery. The site is located at 32.040876°, -104.231729° within Unit K, S18, T26S, R27E, and approximately 27.21 miles south of Carlsbad, New Mexico, in Eddy County (Figures 1 and 2).

Background

Based on the initial C-141 submitted to the New Mexico Oil Conservation Division (NMOCD), a 0.25 barrel oil release was discovered on May 29, 2021, due to a malfunction of a free-water knockout and subsequent flare fire occurring on the facility pad. No oil recovery was achieved. The impacted area measured approximately 40' x 35', 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 no known water source within a ½ mile radius of the location. The nearest identified well is located approximately 1.30 miles Northwest of the site in S12, T26S, R26E. The well has a reported depth to groundwater of 12.60' feet below ground surface (ft bgs). A copy of the associated *Point of Diversion Summary* 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: 100 mg/kg (GRO + DRO + MRO).
- Chloride 600 mg/kg

Site Assessment

On August 31, 2021, NTG Environmental conducted site assessment activities to assess soil impacts resulting from the release. Soil samples were collected from a total of eight (8) sample points that were advanced to depths ranging surface – 1.5 ft below ground surface (bgs) within the release area to assess the vertical and horizontal extent of potential impacts. The soil sample locations are shown on Figure 3.

For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Xenco Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015 modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports containing analytical methods, results, and chain-of-custody documents are attached in Appendix C. The analytical results are provided in Table 1.

Referring to Table 1, the area of S-2, S-3, H-3, and H-4 showed concentrations of TPH exceeding the regulatory limit of 100 mg/kg with concentrations ranging from 125 mg/kg to 751 mg/kg at depths ranging from the surface to 1.5 ft bgs. All other samples collected are below the NMOCD regulatory criteria for TPH, BTEX, and chloride.

Remediation Activities and Confirmation Sampling

New Tech Global Environmental personnel were on site on July 8-13, 2021, supervising the remediation activities and collecting confirmation samples. The area of S-1 was excavated to a depth of 1.0 below the surface. The areas of S-2 and S-3 were excavated to a depth of 1.5 - 2.0' below the surface.

A total of four (4) confirmation samples were collected (CS-1, CS-2, CS-3, and CS-4), and eight (8) sidewall samples (SW-1 through SW-8) were collected every 200 square feet to ensure proper removal of the contaminated soils. All collected samples were analyzed 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 2. The excavation depths and confirmation sample locations are shown in Figure 4.

The areas of CS-1, CS-2, CS-3, SW-1, SW-2, SW-7, and SW-8 showed high TPH concentrations ranging from 115.6 mg/kg through 5,310 mg/kg at surface to 1.0 below the surface. The confirmation samples were re-collected after breaking through the dense layer of

caliche and extended the sidewalls and additional 0.5'. The final BTEX and Chloride confirmation samples were below 19.15.29.12 NMAC criteria.

All the final confirmation samples were below the 19.15.29.12 NMAC criteria. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 39 cubic yards of material were excavated and transported offsite for proper disposal.

Conclusions

Based on the finding of the assessment and the analytical results, no further actions are required at the site. The final C-141 is attached, and Concho Resources formally requests closure of the spill. 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

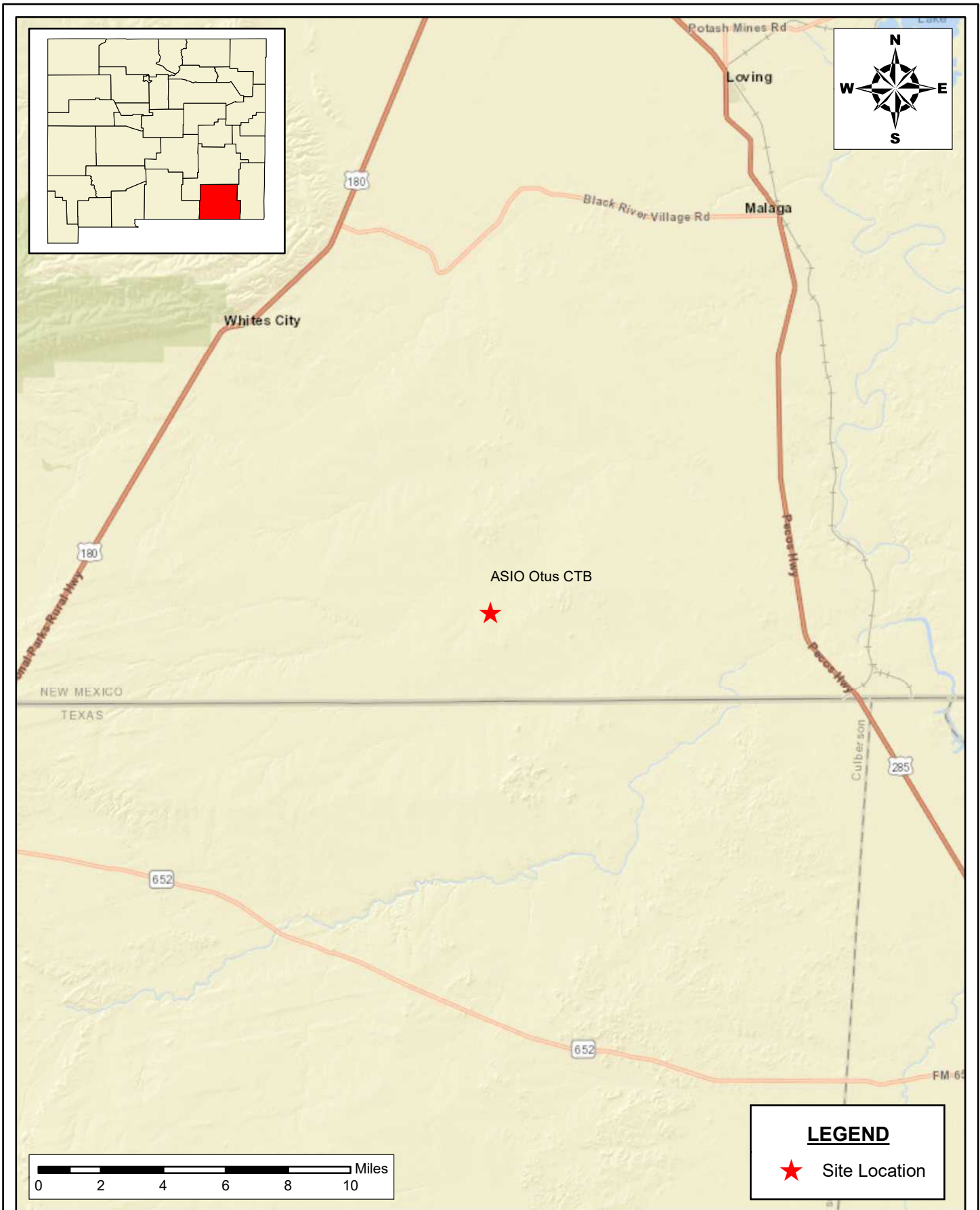



Conner Moehring
Project Manager



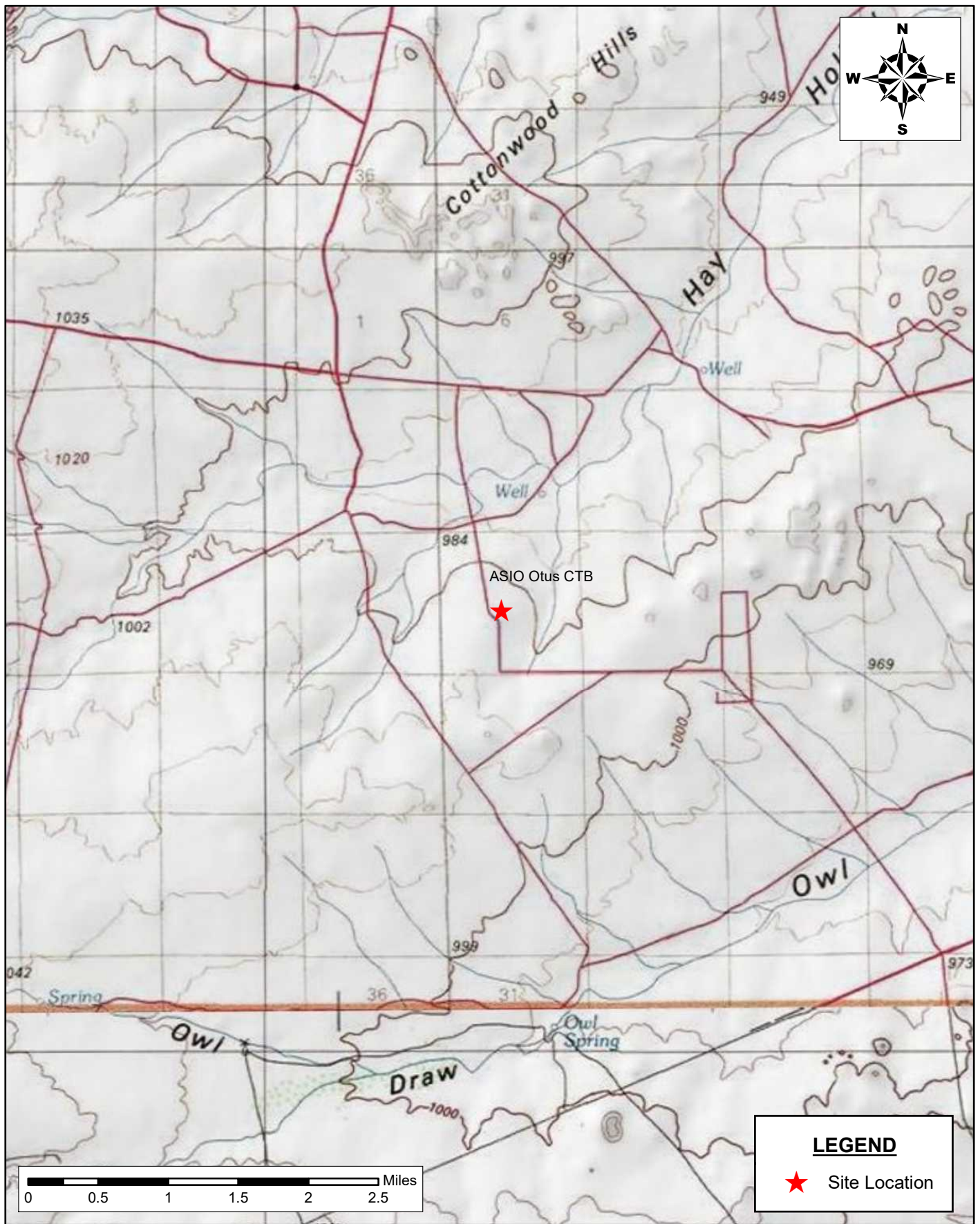
Figures

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<p>SITE LOCATION MAP COG OPERATING, LLC ASIO OTUS CTB (05.29.21) EDDY COUNTY, NEW MEXICO 32.040876, -104.231729</p>	<p> New Tech Global Environmental, LLC 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntglobal.com</p>	<p>NOTES: 1. Base Image: ESRI Maps & Data 2013 2. Map Projection: NAD 1983 UTM Zone 13N</p>	<p>DRAWING NUMBER: FIGURE 1 SHEET NUMBER: 1 of 1</p>
<p>SCALE: As Shown Date: 9/6/2021 PROJECT #: 214608</p>			

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AREA MAP
COG OPERATING, LLC
 ASIO OTUS CTB (05.29.21)
 EDDY COUNTY, NEW MEXICO
 32.040876, -104.231729

SCALE: As Shown Date: 9/6/2021 PROJECT #: 214608

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



NOTES:

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

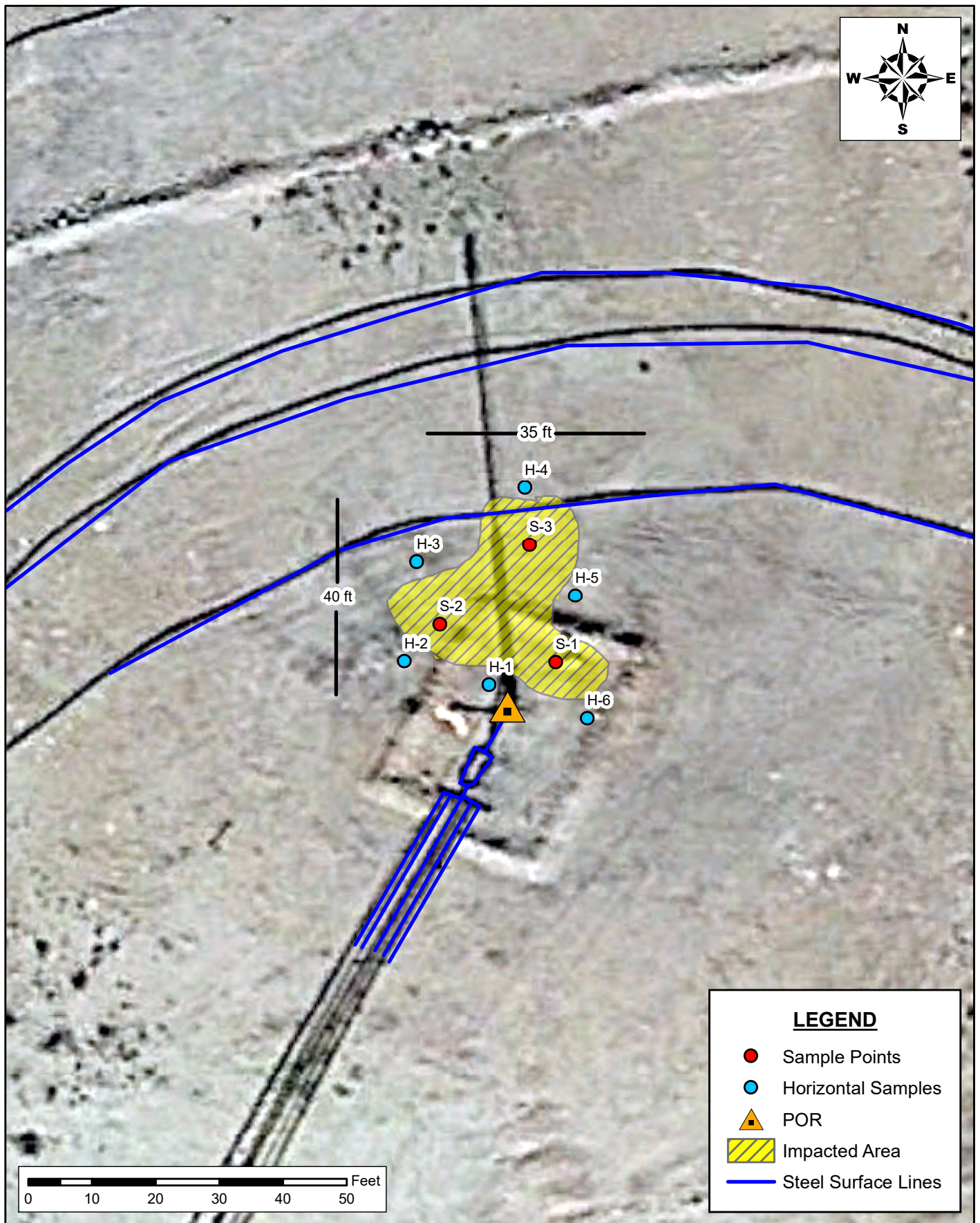
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FIGURE 2

SHEET NUMBER:

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SAMPLE LOCATION MAP
COG OPERATING, LLC
 ASIO OTUS CTB (05.29.21)
 EDDY COUNTY, NEW MEXICO
 32.040876, -104.231729

SCALE: As Shown

Date: 9/15/2021

PROJECT #: 214608



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NOTES:

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

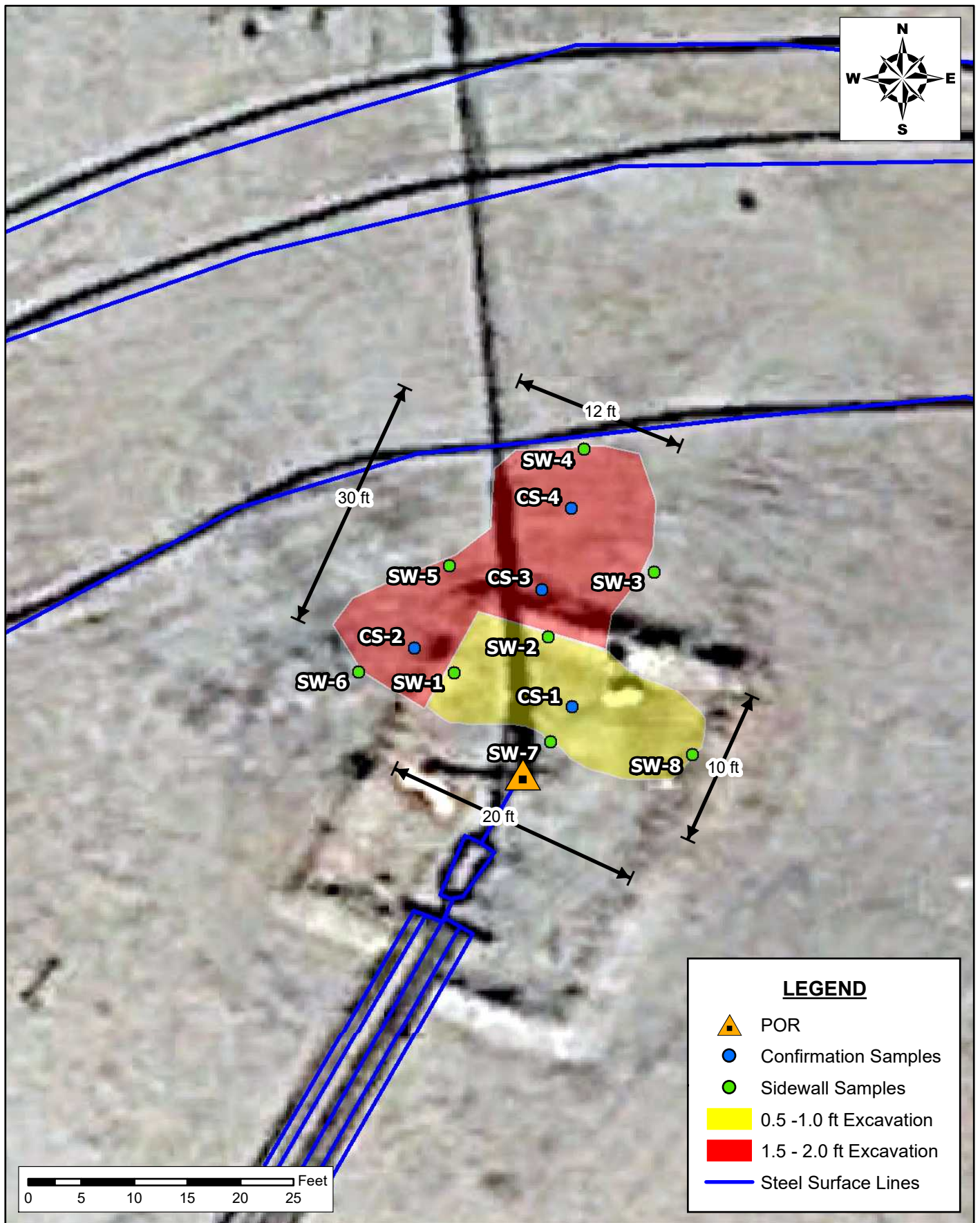
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FIGURE 3

SHEET NUMBER:

1 of 1

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LEGEND

- POR
- Confirmation Samples
- Sidewall Samples
- 0.5 - 1.0 ft Excavation
- 1.5 - 2.0 ft Excavation
- Steel Surface Lines

EXCAVATION DEPTH MAP
COG OPERATING, LLC
 ASIO OTUS CTB (05.29.21)
 EDDY COUNTY, NEW MEXICO
 32.040876, -104.231729

SCALE: As Shown

Date: 9/16/2021

PROJECT #: 214608



New Tech Global Environmental, LLC
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NOTES:

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

DRAWING NUMBER:

FIGURE 4

SHEET NUMBER:

1 of 1



Tables

Table 1
Concho Operating, LLC
Asio Otus CTB (05.29.21)
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	8/31/2021	0-1	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	64.1
	"	1-1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	131
	"	1.5-2.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	53.4
S-2	8/31/2021	0-1	<49.9	146	<49.9	146	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	8.76
	"	1-1.5	<49.9	125	<49.9	125	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	260
S-3	8/31/2021	0-1	<49.8	278	<49.8	278	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	143
	"	1-1.5	<49.9	139	<49.9	139	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	22.1
H-1	8/31/2021	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	29.0
H-2	8/31/2021	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.8
H-3	8/31/2021	0-0.5	<49.8	159	<49.8	159	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	19.1
H-4	8/31/2021	0-0.5	<49.9	677	73.7	751	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	89.7
H-5	8/31/2021	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.3
Regulatory Limits						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not applicable

A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

Excavated

Table 2. Analytical Results - Excavation Confirmation
Concho Operating, LLC
Asio Otus CTB (05.29.21)
Eddy County, New Mexico

Sample ID	Date	Excavation 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						
CS-1	9/8/2021	0.5	<10.0	293	238	531	<0.050	<0.050	<0.050	<0.150	<0.300	176
	9/13/2021	1.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	8.73
CS-2	9/8/2021	1.5	<10.0	134	114	248	<0.050	<0.050	<0.050	<0.150	<0.300	144
	9/13/2021	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	10
CS-3	9/8/2021	1.5	<10.0	70.4	45.2	115.6	<0.050	<0.050	<0.050	<0.150	<0.300	240
	9/13/2021	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	8.28
CS-4	9/8/2021	1.5	<10.0	156	125	281	<0.050	<0.050	<0.050	<0.150	<0.300	208
	9/13/2021	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10.2
SW-1	9/8/2021	--	<10.0	3,030	1,310	4,340	<0.050	<0.050	<0.050	<0.150	<0.300	224
	9/13/2021		<49.8	<49.8	<49.8	<49.8	0.00250	<0.00200	0.00378	0.00438	0.0107	9.25
SW-2	9/8/2021	--	<10.0	3,560	1,590	5,150	<0.050	<0.050	<0.050	<0.150	<0.300	240
	9/13/2021		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10.6
SW-3	9/8/2021	--	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
SW-4	9/8/2021	--	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
SW-5	9/8/2021	--	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
SW-6	9/8/2021	--	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
SW-7	9/8/2021	--	<10.0	3,120	1,420	4,540	<0.050	<0.050	<0.050	<0.150	<0.300	224
	9/13/2021		<50.0	<50.0	<50.0	<50.0	0.00414	<0.00200	<0.00200	<0.00400	0.00414	10.3
SW-8	9/8/2021	--	<10.0	3,680	1,630	5,310	<0.050	<0.050	<0.050	<0.150	<0.300	240
	9/13/2021		<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	9.53
Regulatory Limits							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not applicable

A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

Excavated



Photo Log

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Asio Otus Central Tank Battery

County: Eddy County, New Mexico

Description:

View West of Pre-Excavation



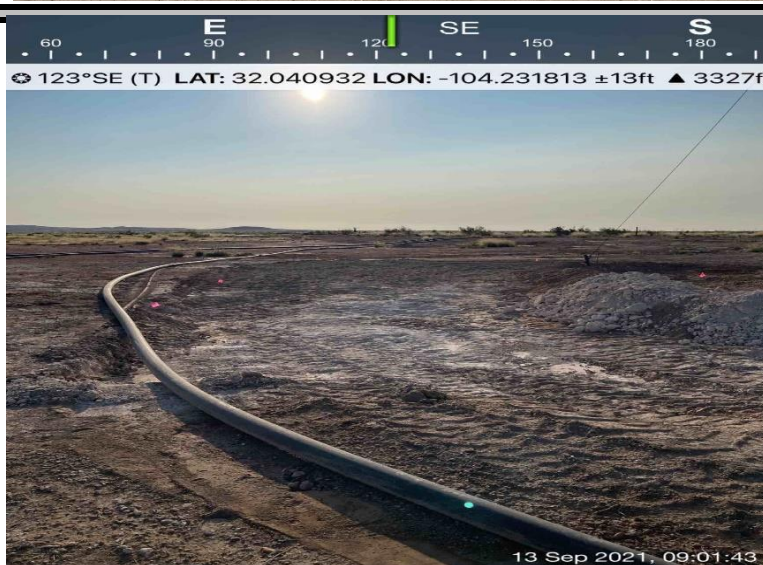
Photograph No. 2

Facility: Asio Otus Central Tank Battery

County: Eddy County, New Mexico

Description:

View Southeast of excavation



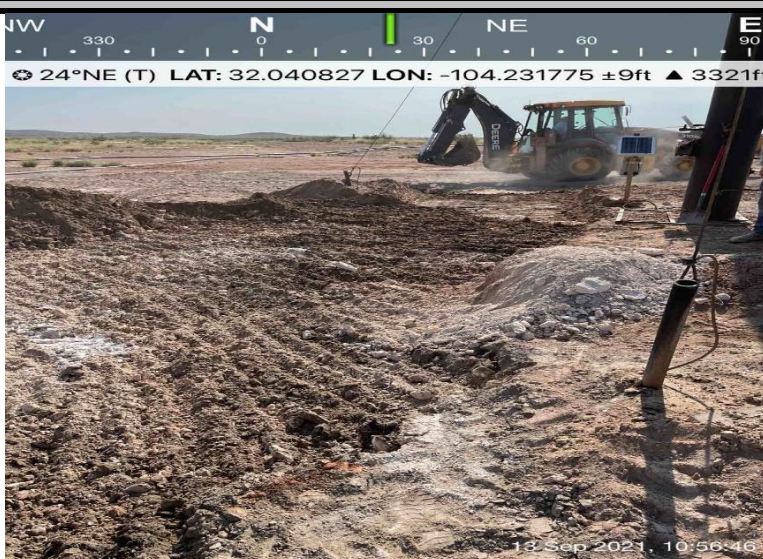
Photograph No. 3

Facility: Asio Otus Central Tank Battery

County: Eddy County, New Mexico

Description:

View North of excavation





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)

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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

L48 Spill Volume Estimate Form												
Facility Name & Number:		Asio Otus CTB Flare Fire										
Asset Area:		DBWN										
Release Discovery Date & Time:		May 31, 2021- 12:30 pm										
Release Type:		Oil										
Provide any known details about the event:		Flare Fire										
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 <u>Pool</u> 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	65.0	15.0	0.07	4	975.000	0.001	0.253	0.000	0.253			
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
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:									0.253			

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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

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: Jacqueline Heredia Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Jacques Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



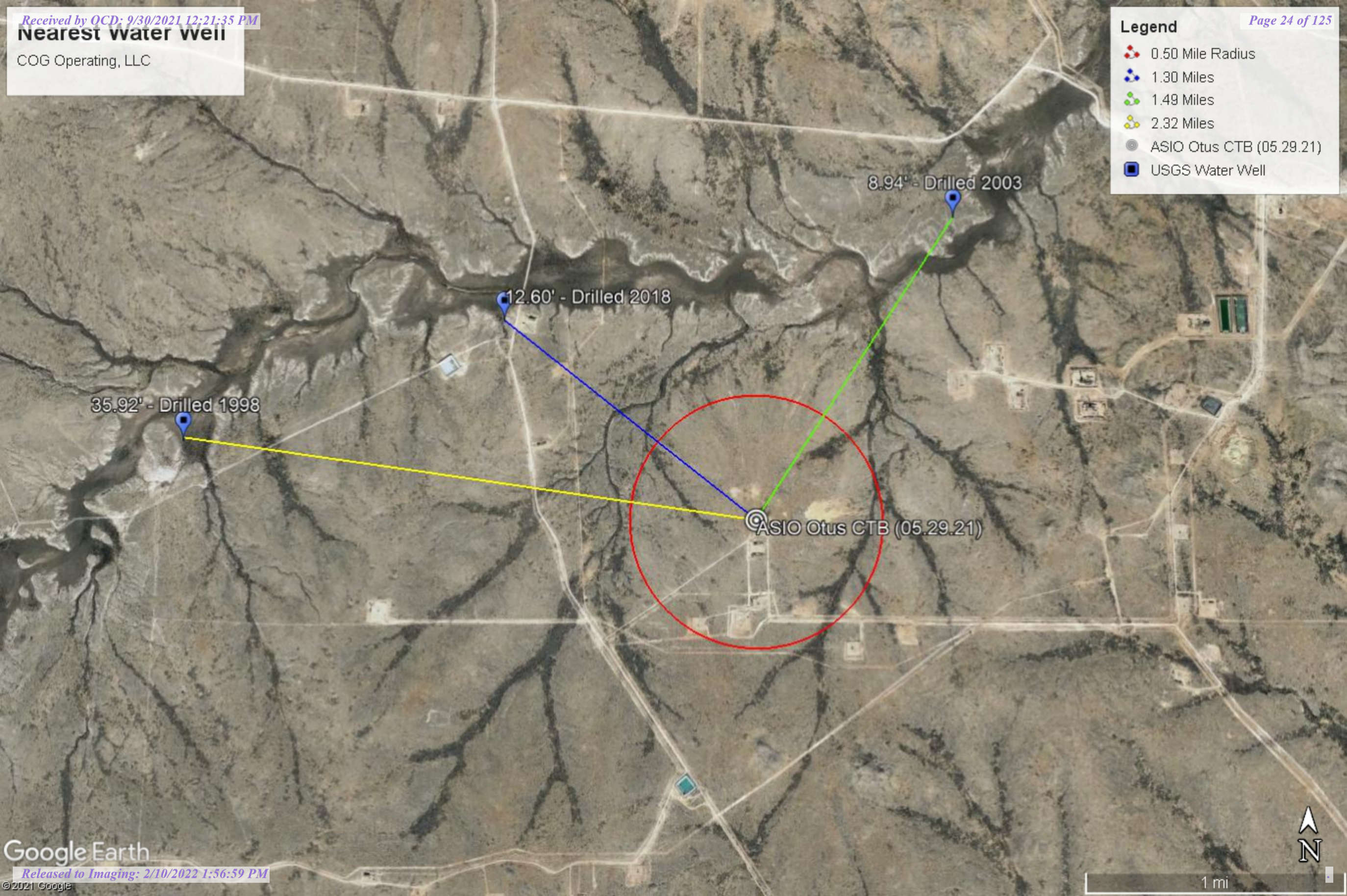
Appendix B

Nearest water well

COG Operating, LLC

Legend

- 0.50 Mile Radius
- 1.30 Miles
- 1.49 Miles
- 2.32 Miles
- ASIO Otus CTB (05.29.21)
- USGS Water Well



Medium Karst

COG Operating, LLC

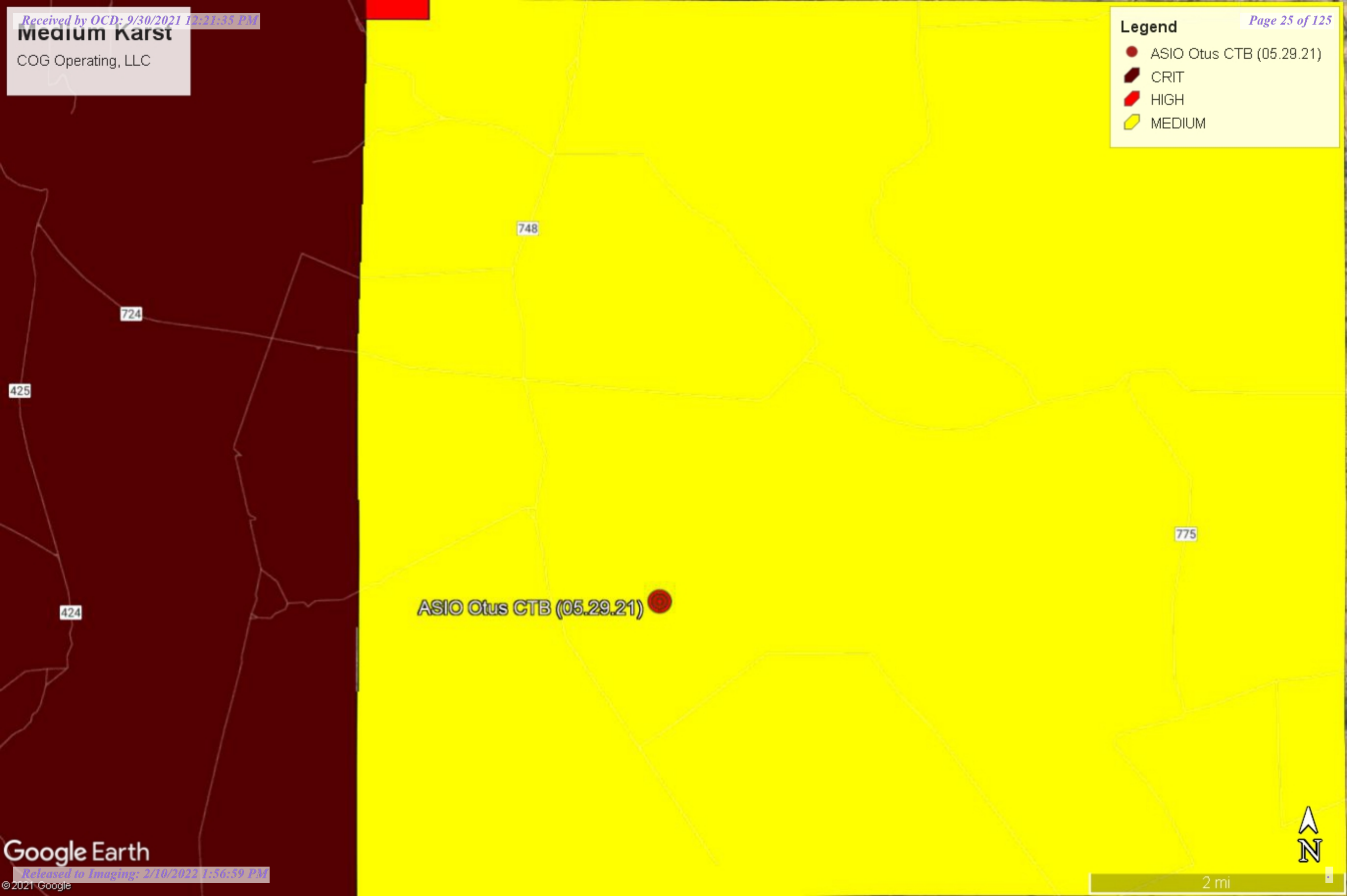
Legend

ASIO Otus CTB (05.29.21)

CRIT

HIGH

MEDIUM





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-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02218	CUB	ED	4	1	4	07	26S	27E	573039	3546725*		35		
C 02219	CUB	ED	4	4	4	05	26S	27E	575033	3547948*		35		
C 02474	CUB	ED	4	3	02	26S	27E	578964	3548029*		100			
C 02475	CUB	ED	2	4	13	26S	27E	581450	3545252*		100			
C 02476	CUB	ED	4	1	24	26S	27E	580653	3544032*		150			
C 02930	C	ED	2	3	4	22	26S	27E	577938	3543284*		100	50	50
C 04269 POD1	CUB	ED	4	2	3	18	26S	27E	572620	3545176		105		

Average Depth to Water: **50 feet**

Minimum Depth: **50 feet**

Maximum Depth: **50 feet**

Record Count: 7

PLSS Search:

Township: 26S

Range: 27E

*UTM location was derived from PLSS - see Help

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

9/2/21 8:44 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



National Water Information System: Mapper



Site Information



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Data Category: Geographic Area:

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320343104110201

Minimum number of levels = 1

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USGS 320343104110201 26S.27E.08.13230

Eddy County, New Mexico

Latitude 32°03'32.4", Longitude 104°13'03.9" NAD83

Land-surface elevation 3,182.10 feet above NGVD29

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Castile Formation (312CSTL) 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
1978-01-03			D 62610		3164.52	NGVD29	1		Z	
1978-01-03			D 62611		3166.18	NAVD88	1		Z	
1978-01-03			D 72019	17.58			1		Z	
1983-01-05			D 62610		3166.54	NGVD29	1		Z	
1983-01-05			D 62611		3168.20	NAVD88	1		Z	
1983-01-05			D 72019	15.56			1		Z	
1987-10-08			D 62610		3167.72	NGVD29	1		Z	
1987-10-08			D 62611		3169.38	NAVD88	1		Z	
1987-10-08			D 72019	14.38			1		Z	
1992-11-04			D 62610		3165.85	NGVD29	1		S	
1992-11-04			D 62611		3167.51	NAVD88	1		S	
1992-11-04			D 72019	16.25			1		S	
1998-01-13			D 62610		3165.45	NGVD29	1		S	
1998-01-13			D 62611		3167.11	NAVD88	1		S	
1998-01-13			D 72019	16.65			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
2003-01-28			D	62610	3164.88	NGVD29	1	S	USGS	
2003-01-28			D	62611	3166.54	NAVD88	1	S	USGS	
2003-01-28			D	72019	17.22		1	S	USGS	
2013-01-09	21:45 UTC		m	62610	3173.16	NGVD29	1	S	USGS	
2013-01-09	21:45 UTC		m	62611	3174.82	NAVD88	1	S	USGS	
2013-01-09	21:45 UTC		m	72019	8.94		1	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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.

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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/>



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0.3 0.25 nadww01



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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320320104145101

Minimum number of levels = 1

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USGS 320320104145101 26S.26E.12.34120

Eddy County, New Mexico

Latitude 32°03'09.7", Longitude 104°14'56.7" NAD83

Land-surface elevation 3,230.90 feet above NGVD29

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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
1978-01-25			D 62610		3217.55	NGVD29	1	Z		
1978-01-25			D 62611		3219.22	NAVD88	1	Z		
1978-01-25			D 72019	13.35			1	Z		
1992-11-18			D 62610		3218.87	NGVD29	1	S		
1992-11-18			D 62611		3220.54	NAVD88	1	S		
1992-11-18			D 72019	12.03			1	S		
1998-01-13			D 62610		3215.24	NGVD29	1	S		
1998-01-13			D 62611		3216.91	NAVD88	1	S		
1998-01-13			D 72019	15.66			1	S		
2003-01-28			D 62610		3214.44	NGVD29	1	S	USGS	
2003-01-28			D 62611		3216.11	NAVD88	1	S	USGS	
2003-01-28			D 72019	16.46			1	S	USGS	
2013-01-09	22:10 UTC		m 62610		3213.80	NGVD29	1	S	USGS	
2013-01-09	22:10 UTC		m 62611		3215.47	NAVD88	1	S	USGS	
2013-01-09	22:10 UTC		m 72019	17.10			1	S	USGS	

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
2018-02-15	22:14 UTC	m	62610		3218.30	NGVD29	1	S	USGS	
2018-02-15	22:14 UTC	m	62611		3219.97	NAVD88	1	S	USGS	
2018-02-15	22:14 UTC	m	72019	12.60			1	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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.

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0.3 0.26 nadw01



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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320244104161501

Minimum number of levels = 1
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USGS 320244104161501 26S.26E.15.24444

Eddy County, New Mexico
Latitude 32°02'44", Longitude 104°16'15" NAD27
Land-surface elevation 3,280 feet above NAVD88
The depth of the well is 53 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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
1983-08-24			D 62610		3246.37	NGVD29	1	Z		
1983-08-24			D 62611		3248.04	NAVD88	1	Z		
1983-08-24			D 72019	31.96			1	Z		
1987-10-08			D 62610		3248.64	NGVD29	1	Z		
1987-10-08			D 62611		3250.31	NAVD88	1	Z		
1987-10-08			D 72019	29.69			1	Z		
1992-11-18			D 62610		3246.72	NGVD29	1	S		
1992-11-18			D 62611		3248.39	NAVD88	1	S		
1992-11-18			D 72019	31.61			1	S		
1998-01-08			D 62610		3242.41	NGVD29	1	S		
1998-01-08			D 62611		3244.08	NAVD88	1	S		
1998-01-08			D 72019	35.92			1	S		

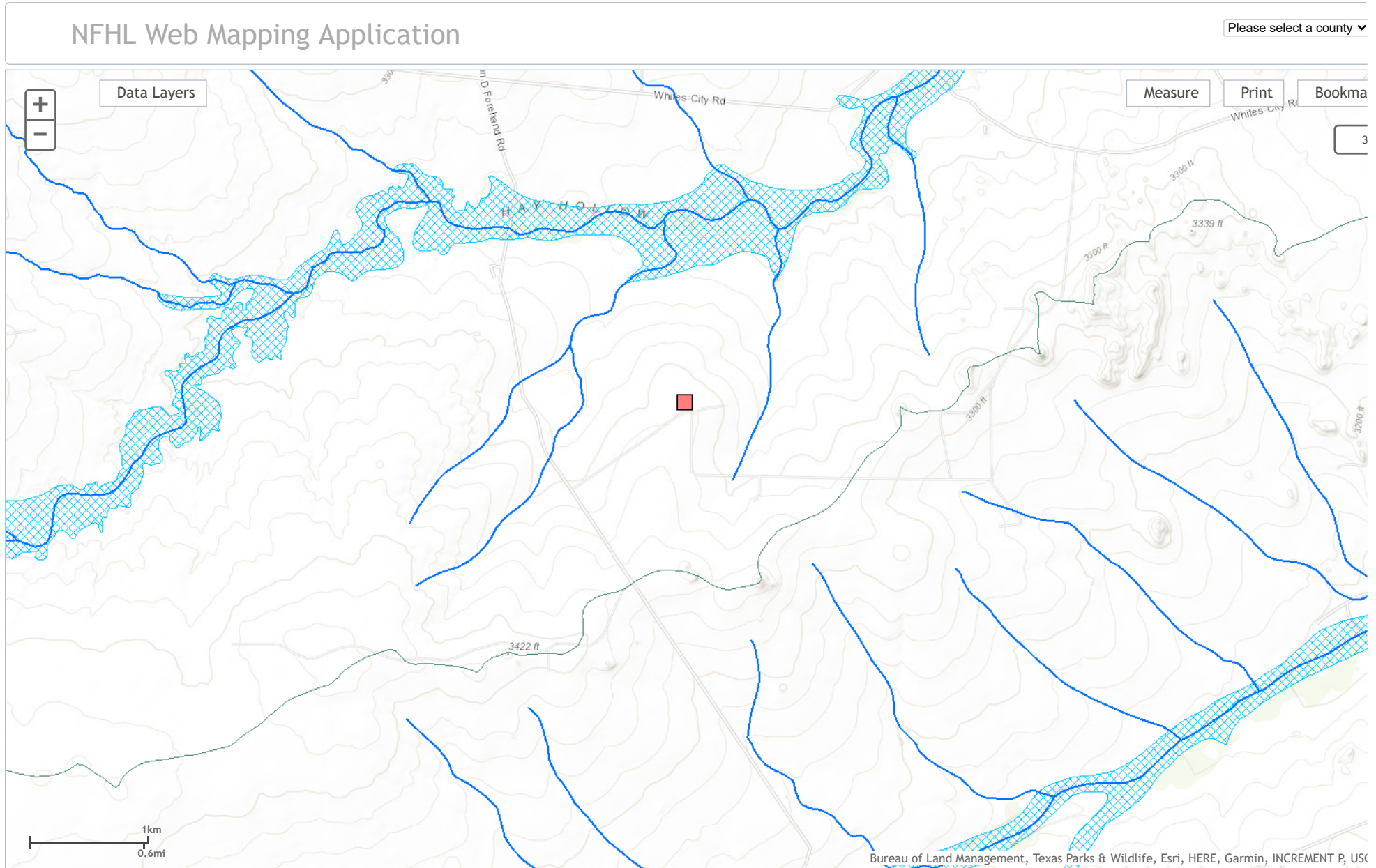
Explanation

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
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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0.3 0.26 nadww01





Appendix C



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-5668-1

Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: ASIO Otus CTB (05.29.21)

For:

NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Mike Carmona

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
9/2/2021 3:08:37 PM

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

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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: ASIO Otus CTB (05.29.21)

Laboratory Job ID: 880-5668-1
SDG: Eddy Co, NM

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QC Sample Results	11
QC Association Summary	16
Lab Chronicle	18
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	24

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Definitions/Glossary

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
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
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

Job ID: 880-5668-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-5668-1

Receipt

The samples were received on 9/1/2021 9:53 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 5.5°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7385 and analytical batch 880-7366 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

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

HPLC/IC

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

Client Sample Results

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (0-1')

Lab Sample ID: 880-5668-1

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		09/01/21 10:19	09/02/21 00:26	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		09/01/21 10:19	09/02/21 00:26	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		09/01/21 10:19	09/02/21 00:26	1
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.00400		mg/Kg		09/01/21 10:19	09/02/21 00:26	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		09/01/21 10:19	09/02/21 00:26	1
Xylenes, Total	<0.00400	U F2 F1	0.00400		mg/Kg		09/01/21 10:19	09/02/21 00:26	1
Total BTEX	<0.00400	U F2 F1	0.00400		mg/Kg		09/01/21 10:19	09/02/21 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/01/21 10:19	09/02/21 00:26	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/01/21 10:19	09/02/21 00:26	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	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 16:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 16:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 16:38	1
Total TPH	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	09/01/21 10:35	09/01/21 16:38	1
o-Terphenyl	101		70 - 130	09/01/21 10:35	09/01/21 16:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.1		4.98		mg/Kg			09/02/21 11:36	1

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

Lab Sample ID: 880-5668-2

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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		09/01/21 10:19	09/02/21 00:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 00:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 00:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/01/21 10:19	09/02/21 00:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 00:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/01/21 10:19	09/02/21 00:46	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		09/01/21 10:19	09/02/21 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/01/21 10:19	09/02/21 00:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/01/21 10:19	09/02/21 00:46	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		09/01/21 10:35	09/01/21 18:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-5668-2

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 18:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 18:03	1
Total TPH	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				09/01/21 10:35	09/01/21 18:03	1
o-Terphenyl	91		70 - 130				09/01/21 10:35	09/01/21 18:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		4.95		mg/Kg			09/02/21 11:43	1

Client Sample ID: S-1 (1.5-2)

Lab Sample ID: 880-5668-3

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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		09/01/21 10:19	09/02/21 05:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/01/21 10:19	09/02/21 05:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/01/21 10:19	09/02/21 05:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/01/21 10:19	09/02/21 05:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/01/21 10:19	09/02/21 05:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/01/21 10:19	09/02/21 05:39	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		09/01/21 10:19	09/02/21 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				09/01/21 10:19	09/02/21 05:39	1
1,4-Difluorobenzene (Surr)	79		70 - 130				09/01/21 10:19	09/02/21 05:39	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		09/01/21 10:35	09/01/21 18:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 18:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 18:24	1
Total TPH	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				09/01/21 10:35	09/01/21 18:24	1
o-Terphenyl	93		70 - 130				09/01/21 10:35	09/01/21 18:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.4		4.95		mg/Kg			09/02/21 11:50	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-5668-4

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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		09/01/21 10:19	09/02/21 05:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 05:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 05:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/01/21 10:19	09/02/21 05:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 05:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/01/21 10:19	09/02/21 05:59	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		09/01/21 10:19	09/02/21 05:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/01/21 10:19	09/02/21 05:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/01/21 10:19	09/02/21 05:59	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		09/01/21 10:35	09/01/21 18:45	1
Diesel Range Organics (Over C10-C28)	146		49.9		mg/Kg		09/01/21 10:35	09/01/21 18:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/01/21 10:35	09/01/21 18:45	1
Total TPH	146		49.9		mg/Kg		09/01/21 10:35	09/01/21 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	09/01/21 10:35	09/01/21 18:45	1
o-Terphenyl	88		70 - 130	09/01/21 10:35	09/01/21 18:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.76		5.04		mg/Kg			09/01/21 17:25	1

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

Lab Sample ID: 880-5668-5

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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		09/01/21 10:19	09/02/21 06:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 06:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 06:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 06:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 06:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 06:20	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 06:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	09/01/21 10:19	09/02/21 06:20	1
1,4-Difluorobenzene (Surr)	73		70 - 130	09/01/21 10:19	09/02/21 06:20	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		09/01/21 10:35	09/01/21 19:06	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-5668-5

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	125		49.9		mg/Kg		09/01/21 10:35	09/01/21 19:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/01/21 10:35	09/01/21 19:06	1
Total TPH	125		49.9		mg/Kg		09/01/21 10:35	09/01/21 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				09/01/21 10:35	09/01/21 19:06	1
o-Terphenyl	101		70 - 130				09/01/21 10:35	09/01/21 19:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		4.96		mg/Kg			09/01/21 17:31	1

Client Sample ID: S-3 (0-1')

Lab Sample ID: 880-5668-6

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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		09/01/21 10:19	09/02/21 06:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/01/21 10:19	09/02/21 06:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/01/21 10:19	09/02/21 06:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/01/21 10:19	09/02/21 06:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/01/21 10:19	09/02/21 06:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/01/21 10:19	09/02/21 06:40	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		09/01/21 10:19	09/02/21 06:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				09/01/21 10:19	09/02/21 06:40	1
1,4-Difluorobenzene (Surr)	84		70 - 130				09/01/21 10:19	09/02/21 06:40	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	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 19:28	1
Diesel Range Organics (Over C10-C28)	278		49.8		mg/Kg		09/01/21 10:35	09/01/21 19:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 19:28	1
Total TPH	278		49.8		mg/Kg		09/01/21 10:35	09/01/21 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				09/01/21 10:35	09/01/21 19:28	1
o-Terphenyl	96		70 - 130				09/01/21 10:35	09/01/21 19:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		4.97		mg/Kg			09/01/21 17:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-5668-7

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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		09/01/21 10:19	09/02/21 07:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 07:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 07:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/01/21 10:19	09/02/21 07:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 07:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/01/21 10:19	09/02/21 07:01	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		09/01/21 10:19	09/02/21 07:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/01/21 10:19	09/02/21 07:01	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/01/21 10:19	09/02/21 07:01	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		09/01/21 10:35	09/01/21 19:48	1
Diesel Range Organics (Over C10-C28)	139		49.9		mg/Kg		09/01/21 10:35	09/01/21 19:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/01/21 10:35	09/01/21 19:48	1
Total TPH	139		49.9		mg/Kg		09/01/21 10:35	09/01/21 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	09/01/21 10:35	09/01/21 19:48	1
o-Terphenyl	106		70 - 130	09/01/21 10:35	09/01/21 19:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.1		4.99		mg/Kg			09/01/21 17:42	1

Eurofins Xenco, Midland

Surrogate Summary

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
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)
880-5668-1	S-1 (0-1')	119	79
880-5668-1 MS	S-1 (0-1')	832 S1+	441 S1+
880-5668-1 MSD	S-1 (0-1')	149 S1+	139 S1+
880-5668-2	S-1 (1-1.5')	108	103
880-5668-3	S-1 (1.5-2)	87	79
880-5668-4	S-2 (0-1')	105	96
880-5668-5	S-2 (1-1.5')	125	73
880-5668-6	S-3 (0-1')	101	84
880-5668-7	S-3 (1-1.5')	100	87
LCS 880-7385/1-A	Lab Control Sample	94	91
LCSD 880-7385/2-A	Lab Control Sample Dup	100	92
MB 880-7365/5-A	Method Blank	123	105
MB 880-7385/5-A	Method Blank	132 S1+	105
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)
880-5666-A-1-C MS	Matrix Spike	87	85
880-5666-A-1-D MSD	Matrix Spike Duplicate	88	85
880-5668-1	S-1 (0-1')	98	101
880-5668-2	S-1 (1-1.5')	87	91
880-5668-3	S-1 (1.5-2)	86	93
880-5668-4	S-2 (0-1')	82	88
880-5668-5	S-2 (1-1.5')	99	101
880-5668-6	S-3 (0-1')	90	96
880-5668-7	S-3 (1-1.5')	98	106
LCS 880-7387/2-A	Lab Control Sample	87	87
LCSD 880-7387/3-A	Lab Control Sample Dup	99	97
MB 880-7387/1-A	Method Blank	85	89
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7365/5-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/01/21 08:59	09/01/21 12:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	09/01/21 08:59	09/01/21 12:22	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/01/21 08:59	09/01/21 12:22	1

Lab Sample ID: MB 880-7385/5-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/01/21 10:19	09/01/21 23:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	09/01/21 10:19	09/01/21 23:57	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/01/21 10:19	09/01/21 23:57	1

Lab Sample ID: LCS 880-7385/1-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08816		mg/Kg		88	70 - 130
Toluene	0.100	0.09729		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.1873		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09333		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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QC Sample Results

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-7385/2-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7385

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08639		mg/Kg		86	70 - 130	2	35
Toluene	0.100	0.09839		mg/Kg		98	70 - 130	1	35
Ethylbenzene	0.100	0.1065		mg/Kg		107	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130	5	35
o-Xylene	0.100	0.09817		mg/Kg		98	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-5668-1 MS

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: S-1 (0-1')

Prep Type: Total/NA

Prep Batch: 7385

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0996	0.3151	F1	mg/Kg		316	70 - 130		
Toluene	<0.00200	U F2 F1	0.0996	0.1865	F1	mg/Kg		187	70 - 130		
Ethylbenzene	<0.00200	U F2 F1	0.0996	0.01810	F1	mg/Kg		18	70 - 130		
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.199	0.3906	F1	mg/Kg		196	70 - 130		
o-Xylene	<0.00200	U F2 F1	0.0996	0.3854	F1	mg/Kg		387	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	832	S1+	70 - 130
1,4-Difluorobenzene (Surr)	441	S1+	70 - 130

Lab Sample ID: 880-5668-1 MSD

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: S-1 (0-1')

Prep Type: Total/NA

Prep Batch: 7385

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	0.0992	0.09683	F2	mg/Kg		98	70 - 130	106	35
Toluene	<0.00200	U F2 F1	0.0992	0.05312	F2 F1	mg/Kg		54	70 - 130	111	35
Ethylbenzene	<0.00200	U F2 F1	0.0992	0.05206	F2 F1	mg/Kg		52	70 - 130	97	35
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.198	0.09963	F2 F1	mg/Kg		50	70 - 130	119	35
o-Xylene	<0.00200	U F2 F1	0.0992	0.05509	F2 F1	mg/Kg		56	70 - 130	150	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130
1,4-Difluorobenzene (Surr)	139	S1+	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-7387/1-A

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 11:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 11:41	1
Total TPH	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	09/01/21 10:35	09/01/21 11:41	1
o-Terphenyl	89		70 - 130	09/01/21 10:35	09/01/21 11:41	1

Lab Sample ID: LCS 880-7387/2-A

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	961.8		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	805.0		mg/Kg		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: LCSD 880-7387/3-A

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7387

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1019		mg/Kg		102	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	906.4		mg/Kg		91	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-5666-A-1-C MS

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	875.9		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	781.7		mg/Kg		76	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-5666-A-1-C MS

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7387

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-5666-A-1-D MSD

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7387

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	<50.0	U	998	919.8		mg/Kg		92	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	794.0		mg/Kg		77	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	85		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7389/1-A

Matrix: Solid

Analysis Batch: 7402

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/01/21 15:04	1

Lab Sample ID: LCS 880-7389/2-A

Matrix: Solid

Analysis Batch: 7402

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.4		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-7389/3-A

Matrix: Solid

Analysis Batch: 7402

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	251.4		mg/Kg		101	90 - 110	2	20

Lab Sample ID: 880-5667-A-4-D MS

Matrix: Solid

Analysis Batch: 7402

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	12.3		253	278.0		mg/Kg		105	90 - 110

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QC Sample Results

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-5667-A-4-E MSD					Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 7402												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	12.3		253	262.1		mg/Kg		99	90 - 110	6	20	

QC Association Summary

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 7365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7365/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 7366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5668-1	S-1 (0-1')	Total/NA	Solid	8021B	7385
880-5668-2	S-1 (1-1.5')	Total/NA	Solid	8021B	7385
880-5668-3	S-1 (1.5-2)	Total/NA	Solid	8021B	7385
880-5668-4	S-2 (0-1')	Total/NA	Solid	8021B	7385
880-5668-5	S-2 (1-1.5')	Total/NA	Solid	8021B	7385
880-5668-6	S-3 (0-1')	Total/NA	Solid	8021B	7385
880-5668-7	S-3 (1-1.5')	Total/NA	Solid	8021B	7385
MB 880-7365/5-A	Method Blank	Total/NA	Solid	8021B	7365
MB 880-7385/5-A	Method Blank	Total/NA	Solid	8021B	7385
LCS 880-7385/1-A	Lab Control Sample	Total/NA	Solid	8021B	7385
LCSD 880-7385/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7385
880-5668-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	7385
880-5668-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	7385

Prep Batch: 7385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5668-1	S-1 (0-1')	Total/NA	Solid	5035	
880-5668-2	S-1 (1-1.5')	Total/NA	Solid	5035	
880-5668-3	S-1 (1.5-2)	Total/NA	Solid	5035	
880-5668-4	S-2 (0-1')	Total/NA	Solid	5035	
880-5668-5	S-2 (1-1.5')	Total/NA	Solid	5035	
880-5668-6	S-3 (0-1')	Total/NA	Solid	5035	
880-5668-7	S-3 (1-1.5')	Total/NA	Solid	5035	
MB 880-7385/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7385/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7385/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5668-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-5668-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 7361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5668-1	S-1 (0-1')	Total/NA	Solid	8015B NM	7387
880-5668-2	S-1 (1-1.5')	Total/NA	Solid	8015B NM	7387
880-5668-3	S-1 (1.5-2)	Total/NA	Solid	8015B NM	7387
880-5668-4	S-2 (0-1')	Total/NA	Solid	8015B NM	7387
880-5668-5	S-2 (1-1.5')	Total/NA	Solid	8015B NM	7387
880-5668-6	S-3 (0-1')	Total/NA	Solid	8015B NM	7387
880-5668-7	S-3 (1-1.5')	Total/NA	Solid	8015B NM	7387
MB 880-7387/1-A	Method Blank	Total/NA	Solid	8015B NM	7387
LCS 880-7387/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7387
LCSD 880-7387/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7387
880-5666-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	7387
880-5666-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7387

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QC Association Summary

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

GC Semi VOA

Prep Batch: 7387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5668-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-5668-2	S-1 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-5668-3	S-1 (1.5-2)	Total/NA	Solid	8015NM Prep	
880-5668-4	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-5668-5	S-2 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-5668-6	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-5668-7	S-3 (1-1.5')	Total/NA	Solid	8015NM Prep	
MB 880-7387/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7387/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7387/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5666-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5666-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5668-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-5668-2	S-1 (1-1.5')	Soluble	Solid	DI Leach	
880-5668-3	S-1 (1.5-2)	Soluble	Solid	DI Leach	
880-5668-4	S-2 (0-1')	Soluble	Solid	DI Leach	
880-5668-5	S-2 (1-1.5')	Soluble	Solid	DI Leach	
880-5668-6	S-3 (0-1')	Soluble	Solid	DI Leach	
880-5668-7	S-3 (1-1.5')	Soluble	Solid	DI Leach	
MB 880-7389/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7389/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7389/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5667-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-5667-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 7402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5668-1	S-1 (0-1')	Soluble	Solid	300.0	7389
880-5668-2	S-1 (1-1.5')	Soluble	Solid	300.0	7389
880-5668-3	S-1 (1.5-2)	Soluble	Solid	300.0	7389
880-5668-4	S-2 (0-1')	Soluble	Solid	300.0	7389
880-5668-5	S-2 (1-1.5')	Soluble	Solid	300.0	7389
880-5668-6	S-3 (0-1')	Soluble	Solid	300.0	7389
880-5668-7	S-3 (1-1.5')	Soluble	Solid	300.0	7389
MB 880-7389/1-A	Method Blank	Soluble	Solid	300.0	7389
LCS 880-7389/2-A	Lab Control Sample	Soluble	Solid	300.0	7389
LCSD 880-7389/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7389
880-5667-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	7389
880-5667-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7389

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Lab Chronicle

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (0-1')

Lab Sample ID: 880-5668-1

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 00:26	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 16:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/02/21 11:36	CH	XEN MID

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

Lab Sample ID: 880-5668-2

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 00:46	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 18:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/02/21 11:43	CH	XEN MID

Client Sample ID: S-1 (1.5-2)

Lab Sample ID: 880-5668-3

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 05:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 18:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/02/21 11:50	CH	XEN MID

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-5668-4

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 05:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 18:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/01/21 17:25	CH	XEN MID

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Lab Chronicle

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-5668-5

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 06:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 19:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/01/21 17:31	CH	XEN MID

Client Sample ID: S-3 (0-1')

Lab Sample ID: 880-5668-6

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 06:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 19:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/01/21 17:36	CH	XEN MID

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

Lab Sample ID: 880-5668-7

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:53

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	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 07:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 19:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/01/21 17:42	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

1
2
3
4
5
6
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10
11
12
13
14

Method Summary

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (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.

Laboratory References:

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

Eurofins Xenco, Midland

Sample Summary

Client: NT Global
Project/Site: ASIO Otus CTB (05.29.21)

Job ID: 880-5668-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5668-1	S-1 (0-1')	Solid	08/31/21 00:00	09/01/21 09:53
880-5668-2	S-1 (1-1.5')	Solid	08/31/21 00:00	09/01/21 09:53
880-5668-3	S-1 (1.5-2)	Solid	08/31/21 00:00	09/01/21 09:53
880-5668-4	S-2 (0-1')	Solid	08/31/21 00:00	09/01/21 09:53
880-5668-5	S-2 (1-1.5')	Solid	08/31/21 00:00	09/01/21 09:53
880-5668-6	S-3 (0-1')	Solid	08/31/21 00:00	09/01/21 09:53
880-5668-7	S-3 (1-1.5')	Solid	08/31/21 00:00	09/01/21 09:53



Chain of Custody



880-5668 Chain of Custody

Order No: 880-5668

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	575-496-0780	Email	jacquiharris@conocophillips.com

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

Project Name	ASIO Otis CTB (05 29 21)	Turn Around	Due Date	48 Hours	Pre. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number	214608	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																None NO	DI Water H ₂ O
Project Location	Eddy Co. NM																	Cool Cool	MeOH Me
Sampler's Name:	CRM																	HCL HC	HNO ₃ HN
PO #:																		H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT		Temp Blank	Yes (No)	Wet Ice:	Yes (No)													H ₃ PO ₄ HP	
Received Intact:	Yes (No)	Thermometer ID:																NaHSO ₄ NABIS	
Cooler Custody Seals	Yes (No)	Correction Factor																Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes (No)	Temperature Reading																Zn Acetate+NaOH Zn	
Total Containers:		Corrected Temperature																NaOH+Ascorbic Acid SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments
S-1 (0-1')	8/31/2021		X		G	1	X	X	X										
S-1 (1-1.5')	8/31/2021		X		G	1	X	X	X										
S-1 (1.5-2')	8/31/2021		X		G	1	X	X	X										
S-2 (0-1')	8/31/2021		X		G	1	X	X	X										
S-2 (1-1.5')	8/31/2021		X		G	1	X	X	X										
S-3 (0-1')	8/31/2021		X		G	1	X	X	X										
S-3 (1-1.5')	8/31/2021		X		G	1	X	X	X										

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$95.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1. <i>Mike Carr</i>	<i>YQJN</i>	9/1/21 0941	2.		
3.			4.		
5.			6.		

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-5668-1

SDG Number: Eddy Co, NM

Login Number: 5668

List Source: Eurofins Xenco, Midland

List Number: 1

Creator: Teel, Brianna

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.	False	No time on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-5666-1

Laboratory Sample Delivery Group: 214608

Client Project/Site: COG ASIO Otus CTB (05.29.21)

For:

NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Mike Carmona

Authorized for release by:
9/2/2021 3:08:13 PM

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

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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: COG ASIO Otus CTB (05.29.21)

Laboratory Job ID: 880-5666-1
SDG: 214608

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Definitions/Glossary

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

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
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

Job ID: 880-5666-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-5666-1

Receipt

The samples were received on 9/1/2021 9:41 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 5.5°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7385 and analytical batch 880-7366 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

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

HPLC/IC

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

Client Sample Results

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-5666-1

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:41

Sample Depth: 0 - 0.5'

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		09/01/21 10:19	09/02/21 01:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 01:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 01:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/01/21 10:19	09/02/21 01:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 01:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/01/21 10:19	09/02/21 01:07	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		09/01/21 10:19	09/02/21 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/01/21 10:19	09/02/21 01:07	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/01/21 10:19	09/02/21 01:07	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		09/01/21 10:35	09/01/21 12:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 12:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 12:44	1
Total TPH	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	09/01/21 10:35	09/01/21 12:44	1
o-Terphenyl	95		70 - 130	09/01/21 10:35	09/01/21 12:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.0		4.95		mg/Kg			09/01/21 15:43	1

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-5666-2

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:41

Sample Depth: 0 - 0.5'

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		09/01/21 10:19	09/02/21 01:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 01:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 01:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 01:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 01:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 01:27	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	09/01/21 10:19	09/02/21 01:27	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/01/21 10:19	09/02/21 01:27	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-5666-2

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:41

Sample Depth: 0 - 0.5'

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		09/01/21 10:35	09/01/21 13:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/01/21 10:35	09/01/21 13:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/01/21 10:35	09/01/21 13:48	1
Total TPH	<49.9	U	49.9		mg/Kg		09/01/21 10:35	09/01/21 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	09/01/21 10:35	09/01/21 13:48	1
o-Terphenyl	113		70 - 130	09/01/21 10:35	09/01/21 13:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.8		5.04		mg/Kg			09/01/21 15:49	1

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-5666-3

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:41

Sample Depth: 0 - 0.5'

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		09/01/21 10:19	09/02/21 01:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 01:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 01:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 01:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 01:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 01:48	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	09/01/21 10:19	09/02/21 01:48	1
1,4-Difluorobenzene (Surr)	72		70 - 130	09/01/21 10:19	09/02/21 01:48	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	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 14:09	1
Diesel Range Organics (Over C10-C28)	159		49.8		mg/Kg		09/01/21 10:35	09/01/21 14:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 14:09	1
Total TPH	159		49.8		mg/Kg		09/01/21 10:35	09/01/21 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	09/01/21 10:35	09/01/21 14:09	1
o-Terphenyl	93		70 - 130	09/01/21 10:35	09/01/21 14:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.1		4.95		mg/Kg			09/01/21 15:55	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-5666-4

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:41

Sample Depth: 0 - 0.5'

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		09/01/21 10:19	09/02/21 02:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 02:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 02:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/01/21 10:19	09/02/21 02:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/02/21 02:08	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/01/21 10:19	09/02/21 02:08	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		09/01/21 10:19	09/02/21 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/01/21 10:19	09/02/21 02:08	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/01/21 10:19	09/02/21 02:08	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		09/01/21 10:35	09/01/21 14:30	1
Diesel Range Organics (Over C10-C28)	677		49.9		mg/Kg		09/01/21 10:35	09/01/21 14:30	1
Oil Range Organics (Over C28-C36)	73.7		49.9		mg/Kg		09/01/21 10:35	09/01/21 14:30	1
Total TPH	751		49.9		mg/Kg		09/01/21 10:35	09/01/21 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	09/01/21 10:35	09/01/21 14:30	1
o-Terphenyl	111		70 - 130	09/01/21 10:35	09/01/21 14:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.7		4.98		mg/Kg			09/01/21 16:12	1

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-5666-5

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:41

Sample Depth: 0 - 0.5'

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		09/01/21 10:19	09/02/21 02:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 02:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 02:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 02:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/01/21 10:19	09/02/21 02:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 02:28	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/01/21 10:19	09/02/21 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/01/21 10:19	09/02/21 02:28	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/01/21 10:19	09/02/21 02:28	1

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Client Sample Results

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-5666-5

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:41

Sample Depth: 0 - 0.5'

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	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 14:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 14:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 14:51	1
Total TPH	<49.8	U	49.8		mg/Kg		09/01/21 10:35	09/01/21 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	09/01/21 10:35	09/01/21 14:51	1
o-Terphenyl	97		70 - 130	09/01/21 10:35	09/01/21 14:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.3		4.97		mg/Kg			09/01/21 16:17	1

Surrogate Summary

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

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)
880-5666-1	H-1 (0-0.5')	103	85
880-5666-2	H-2 (0-0.5')	83	99
880-5666-3	H-3 (0-0.5')	74	72
880-5666-4	H-4 (0-0.5')	110	104
880-5666-5	H-5 (0-0.5')	100	85
880-5668-A-1-C MS	Matrix Spike	832 S1+	441 S1+
880-5668-A-1-D MSD	Matrix Spike Duplicate	149 S1+	139 S1+
LCS 880-7385/1-A	Lab Control Sample	94	91
LCSD 880-7385/2-A	Lab Control Sample Dup	100	92
MB 880-7365/5-A	Method Blank	123	105
MB 880-7385/5-A	Method Blank	132 S1+	105
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)
880-5666-1	H-1 (0-0.5')	89	95
880-5666-1 MS	H-1 (0-0.5')	87	85
880-5666-1 MSD	H-1 (0-0.5')	88	85
880-5666-2	H-2 (0-0.5')	106	113
880-5666-3	H-3 (0-0.5')	86	93
880-5666-4	H-4 (0-0.5')	101	111
880-5666-5	H-5 (0-0.5')	90	97
LCS 880-7387/2-A	Lab Control Sample	87	87
LCSD 880-7387/3-A	Lab Control Sample Dup	99	97
MB 880-7387/1-A	Method Blank	85	89
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7365/5-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/01/21 08:59	09/01/21 12:22	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/01/21 08:59	09/01/21 12:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	09/01/21 08:59	09/01/21 12:22	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/01/21 08:59	09/01/21 12:22	1

Lab Sample ID: MB 880-7385/5-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/01/21 10:19	09/01/21 23:57	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/01/21 10:19	09/01/21 23:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	09/01/21 10:19	09/01/21 23:57	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/01/21 10:19	09/01/21 23:57	1

Lab Sample ID: LCS 880-7385/1-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08816		mg/Kg		88	70 - 130
Toluene	0.100	0.09729		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.1873		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09333		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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QC Sample Results

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

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

Lab Sample ID: LCSD 880-7385/2-A

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7385

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08639		mg/Kg		86	70 - 130	2	35
Toluene	0.100	0.09839		mg/Kg		98	70 - 130	1	35
Ethylbenzene	0.100	0.1065		mg/Kg		107	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130	5	35
o-Xylene	0.100	0.09817		mg/Kg		98	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-5668-A-1-C MS

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7385

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0996	0.3151	F1	mg/Kg		316	70 - 130		
Toluene	<0.00200	U F2 F1	0.0996	0.1865	F1	mg/Kg		187	70 - 130		
Ethylbenzene	<0.00200	U F2 F1	0.0996	0.01810	F1	mg/Kg		18	70 - 130		
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.199	0.3906	F1	mg/Kg		196	70 - 130		
o-Xylene	<0.00200	U F2 F1	0.0996	0.3854	F1	mg/Kg		387	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	832	S1+	70 - 130
1,4-Difluorobenzene (Surr)	441	S1+	70 - 130

Lab Sample ID: 880-5668-A-1-D MSD

Matrix: Solid

Analysis Batch: 7366

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7385

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	0.0992	0.09683	F2	mg/Kg		98	70 - 130	106	35
Toluene	<0.00200	U F2 F1	0.0992	0.05312	F2 F1	mg/Kg		54	70 - 130	111	35
Ethylbenzene	<0.00200	U F2 F1	0.0992	0.05206	F2 F1	mg/Kg		52	70 - 130	97	35
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.198	0.09963	F2 F1	mg/Kg		50	70 - 130	119	35
o-Xylene	<0.00200	U F2 F1	0.0992	0.05509	F2 F1	mg/Kg		56	70 - 130	150	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130
1,4-Difluorobenzene (Surr)	139	S1+	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

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

Lab Sample ID: MB 880-7387/1-A

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 11:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 11:41	1
Total TPH	<50.0	U	50.0		mg/Kg		09/01/21 10:35	09/01/21 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	09/01/21 10:35	09/01/21 11:41	1
o-Terphenyl	89		70 - 130	09/01/21 10:35	09/01/21 11:41	1

Lab Sample ID: LCS 880-7387/2-A

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	961.8		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	805.0		mg/Kg		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: LCSD 880-7387/3-A

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7387

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1019		mg/Kg		102	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	906.4		mg/Kg		91	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-5666-1 MS

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 7387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	875.9		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	781.7		mg/Kg		76	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

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

Lab Sample ID: 880-5666-1 MS

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 7387

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-5666-1 MSD

Matrix: Solid

Analysis Batch: 7361

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 7387

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	919.8		mg/Kg		92	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	794.0		mg/Kg		77	70 - 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	88		70 - 130								
o-Terphenyl	85		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7389/1-A

Matrix: Solid

Analysis Batch: 7402

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			09/01/21 15:04	1	

Lab Sample ID: LCS 880-7389/2-A

Matrix: Solid

Analysis Batch: 7402

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	247.4		mg/Kg		99	90 - 110			

Lab Sample ID: LCSD 880-7389/3-A

Matrix: Solid

Analysis Batch: 7402

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	251.4		mg/Kg		101	90 - 110	2	20	

Lab Sample ID: 880-5667-A-4-D MS

Matrix: Solid

Analysis Batch: 7402

Client Sample ID: Matrix Spike

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	12.3		253	278.0		mg/Kg		105	90 - 110	

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QC Sample Results

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-5667-A-4-E MSD					Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 7402												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	12.3		253	262.1		mg/Kg		99	90 - 110	6	20	

QC Association Summary

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

GC VOA

Prep Batch: 7365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7365/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 7366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5666-1	H-1 (0-0.5')	Total/NA	Solid	8021B	7385
880-5666-2	H-2 (0-0.5')	Total/NA	Solid	8021B	7385
880-5666-3	H-3 (0-0.5')	Total/NA	Solid	8021B	7385
880-5666-4	H-4 (0-0.5')	Total/NA	Solid	8021B	7385
880-5666-5	H-5 (0-0.5')	Total/NA	Solid	8021B	7385
MB 880-7365/5-A	Method Blank	Total/NA	Solid	8021B	7365
MB 880-7385/5-A	Method Blank	Total/NA	Solid	8021B	7385
LCS 880-7385/1-A	Lab Control Sample	Total/NA	Solid	8021B	7385
LCSD 880-7385/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7385
880-5668-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	7385
880-5668-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7385

Prep Batch: 7385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5666-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-5666-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-5666-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-5666-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-5666-5	H-5 (0-0.5')	Total/NA	Solid	5035	
MB 880-7385/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7385/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7385/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5668-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-5668-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 7361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5666-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	7387
880-5666-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	7387
880-5666-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	7387
880-5666-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	7387
880-5666-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	7387
MB 880-7387/1-A	Method Blank	Total/NA	Solid	8015B NM	7387
LCS 880-7387/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7387
LCSD 880-7387/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7387
880-5666-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015B NM	7387
880-5666-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015B NM	7387

Prep Batch: 7387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5666-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-5666-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-5666-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-5666-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-5666-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

GC Semi VOA (Continued)

Prep Batch: 7387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7387/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7387/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7387/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5666-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-5666-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5666-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-5666-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-5666-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-5666-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-5666-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-7389/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7389/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7389/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5667-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-5667-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 7402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5666-1	H-1 (0-0.5')	Soluble	Solid	300.0	7389
880-5666-2	H-2 (0-0.5')	Soluble	Solid	300.0	7389
880-5666-3	H-3 (0-0.5')	Soluble	Solid	300.0	7389
880-5666-4	H-4 (0-0.5')	Soluble	Solid	300.0	7389
880-5666-5	H-5 (0-0.5')	Soluble	Solid	300.0	7389
MB 880-7389/1-A	Method Blank	Soluble	Solid	300.0	7389
LCS 880-7389/2-A	Lab Control Sample	Soluble	Solid	300.0	7389
LCSD 880-7389/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7389
880-5667-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	7389
880-5667-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7389

Lab Chronicle

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-5666-1

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:41

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	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 01:07	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/01/21 15:43	CH	XEN MID

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-5666-2

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:41

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	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 01:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 13:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/01/21 15:49	CH	XEN MID

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-5666-3

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:41

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	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 01:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 14:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/01/21 15:55	CH	XEN MID

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-5666-4

Date Collected: 08/31/21 00:00

Matrix: Solid

Date Received: 09/01/21 09:41

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	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 02:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/01/21 16:12	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

Client Sample ID: H-5 (0-0.5')
Date Collected: 08/31/21 00:00
Date Received: 09/01/21 09:41

Lab Sample ID: 880-5666-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	7385	09/01/21 10:19	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7366	09/02/21 02:28	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7387	09/01/21 10:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/01/21 14:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7389	09/01/21 11:11	SC	XEN MID
Soluble	Analysis	300.0		1			7402	09/01/21 16:17	CH	XEN MID

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

Accreditation/Certification Summary

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: NT Global
Project/Site: COG ASIO Otus CTB (05.29.21)

Job ID: 880-5666-1
SDG: 214608

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (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.

Laboratory References:

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

Eurofins Xenco, Midland

Sample Summary

Client: NT Global

Job ID: 880-5666-1

Project/Site: COG ASIO Otus CTB (05.29.21)

SDG: 214608

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-5666-1	H-1 (0-0.5')	Solid	08/31/21 00:00	09/01/21 09:41	0 - 0.5'
880-5666-2	H-2 (0-0.5')	Solid	08/31/21 00:00	09/01/21 09:41	0 - 0.5'
880-5666-3	H-3 (0-0.5')	Solid	08/31/21 00:00	09/01/21 09:41	0 - 0.5'
880-5666-4	H-4 (0-0.5')	Solid	08/31/21 00:00	09/01/21 09:41	0 - 0.5'
880-5666-5	H-5 (0-0.5')	Solid	08/31/21 00:00	09/01/21 09:41	0 - 0.5'



Chen et al.



880-5666 Chain of Custody

Work Order No: 880-56666

Page 1 of 1

Project Manager	Mike Cammona	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:	575-486-0780	Email:	jacquiharris@conocophillips.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> brownfields <input type="checkbox"/> RRC <input type="checkbox"/> superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other	

[illegible]

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	Nick Hard	KGH	9/12/09	2	
3			4		
5			6		

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-5666-1

SDG Number: 214608

Login Number: 5666

List Number: 1

Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland

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



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

September 09, 2021

MIKE CARMONA

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ASOI OTUS CTB (5.29.21)

Enclosed are the results of analyses for samples received by the laboratory on 09/08/21 15:35.

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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	ASOI OTUS CTB (5.29.21)	Sampling Condition:	Cool & Intact
Project Number:	214608	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: CS-1 (0.5') (H212479-01)

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	09/09/2021	ND	1.91	95.6	2.00	9.51	
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06	
Total BTEX	<0.300	0.300	09/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/09/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	293	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	238	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 09/08/2021
 Reported: 09/09/2021
 Project Name: ASOI OTUS CTB (5.29.21)
 Project Number: 214608
 Project Location: EDDY COUNTY, NM

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS-2 (1.5') (H212479-02)

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	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEx	<0.300	0.300	09/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/09/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	134	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	114	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.5 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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



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

Analytical Results For:

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

Received:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	ASOI OTUS CTB (5.29.21)	Sampling Condition:	Cool & Intact
Project Number:	214608	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: CS-3 (1.5') (H212479-03)

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	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEx	<0.300	0.300	09/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/09/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	70.4	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	45.2	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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



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

Analytical Results For:

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

Received:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	ASOI OTUS CTB (5.29.21)	Sampling Condition:	Cool & Intact
Project Number:	214608	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: CS-4 (1.5') (H212479-04)

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	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEx	<0.300	0.300	09/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/09/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	156	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	125	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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



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Analytical Results For:

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

Received:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	ASOI OTUS CTB (5.29.21)	Sampling Condition:	Cool & Intact
Project Number:	214608	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 1 (H212479-05)

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	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEX	<0.300	0.300	09/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/09/2021	ND	416	104	400	3.77		

TPH 8015M	mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	3030	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	1310	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 172 % 38.9-142

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



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Analytical Results For:

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

Received:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	ASOI OTUS CTB (5.29.21)	Sampling Condition:	Cool & Intact
Project Number:	214608	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 2 (H212479-06)

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	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEX	<0.300	0.300	09/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/09/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93		
DRO >C10-C28*	3560	10.0	09/09/2021	ND	210	105	200	1.44		
EXT DRO >C28-C36	1590	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 79.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 180 % 38.9-142

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



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Analytical Results For:

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

Received: 09/08/2021
 Reported: 09/09/2021
 Project Name: ASOI OTUS CTB (5.29.21)
 Project Number: 214608
 Project Location: EDDY COUNTY, NM

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (H212479-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEX	<0.300	0.300	09/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/09/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.5 % 38.9-142

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



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Analytical Results For:

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

Received:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	ASOI OTUS CTB (5.29.21)	Sampling Condition:	Cool & Intact
Project Number:	214608	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 4 (H212479-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	9.51	
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06	
Total BTX	<0.300	0.300	09/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/09/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.9 % 38.9-142

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



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Analytical Results For:

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

Received: 09/08/2021
 Reported: 09/09/2021
 Project Name: ASOI OTUS CTB (5.29.21)
 Project Number: 214608
 Project Location: EDDY COUNTY, NM

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (H212479-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	9.51	
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06	
Total BTX	<0.300	0.300	09/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/09/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.6 % 38.9-142

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



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Analytical Results For:

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

Received:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	ASOI OTUS CTB (5.29.21)	Sampling Condition:	Cool & Intact
Project Number:	214608	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 6 (H212479-10)

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	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEx	<0.300	0.300	09/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/09/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.9 % 38.9-142

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



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Analytical Results For:

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

Received:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	ASOI OTUS CTB (5.29.21)	Sampling Condition:	Cool & Intact
Project Number:	214608	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 7 (H212479-11)

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	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEX	<0.300	0.300	09/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/09/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	3120	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	1420	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 179 % 38.9-142

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



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Analytical Results For:

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

Received: 09/08/2021
 Reported: 09/09/2021
 Project Name: ASOI OTUS CTB (5.29.21)
 Project Number: 214608
 Project Location: EDDY COUNTY, NM

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 8 (H212479-12)

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	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEx	<0.300	0.300	09/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/09/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	3680	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	1630	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 192 % 38.9-142

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



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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder".

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



Chain of Custody

RUSH!!

Work Order No: H212479Page 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	

Project Name:		Asio Otus CTB (5.29.21)		Turn Around		Pres. Code	
Project Number:		214608		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location:		Eddy Co. NM		Due Date:		24HRS	
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		N/A		Thermometer ID:		113			
Cooler Custody Seals:		Yes		No		N/A		Correction Factor:					
Sample Custody Seals:		Yes		No		N/A		Temperature Reading:		2.02			
Total Containers:								Corrected Temperature:					

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST										Preservative Codes	
CS-1 (0.5')	9/8/2021		X		Comp	1	X	X	X								None: NO	DI Water: H ₂ O
CS-2 (1.5')	9/8/2021		X		Comp	1	X	X	X								Cool: Cool	MeOH: Me
CS-3 (1.5')	9/8/2021		X		Comp	1	X	X	X								HCL: HC	HNO ₃ : HN
CS-4 (1.5')	9/8/2021		X		Comp	1	X	X	X								H ₂ SO ₄ : H ₂	NaOH: Na
SW-1	9/8/2021		X		Comp	1	X	X	X								H ₃ PO ₄ : HP	
SW-2	9/8/2021		X		Comp	1	X	X	X								NaHSO ₄ : NABIS	
SW-3	9/8/2021		X		Comp	1	X	X	X								Na ₂ S ₂ O ₃ : NaSO ₃	
SW-4	9/8/2021		X		Comp	1	X	X	X								Zn Acetate+NaOH: Zn	
SW-5	9/8/2021		X		Comp	1	X	X	X								NaOH+Ascorbic Acid: SAPC	
SW-6	9/8/2021		X		Comp	1	X	X	X									

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	9-8-21 1535			



Chain of Custody

Work Order No: H212479

Page 2 of 2[illegible]



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-6033-1

Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: Asio Otus CTB (5.29.21)

For:

NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Mike Carmona

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
9/14/2021 12:18:07 PM

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

LINKS

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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: Asio Otus CTB (5.29.21)

Laboratory Job ID: 880-6033-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
SQL	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: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Job ID: 880-6033-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-6033-1

Receipt

The samples were received on 9/13/2021 2:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-7 (880-6033-6). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (0.5'-1.0')

Lab Sample ID: 880-6033-1

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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		09/13/21 15:09	09/14/21 05:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 05:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 05:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/21 15:09	09/14/21 05:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 05:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/21 15:09	09/14/21 05:50	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		09/13/21 15:09	09/14/21 05:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/13/21 15:09	09/14/21 05:50	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/13/21 15:09	09/14/21 05:50	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		09/13/21 15:05	09/14/21 07:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/21 15:05	09/14/21 07:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/21 15:05	09/14/21 07:26	1
Total TPH	<49.9	U	49.9		mg/Kg		09/13/21 15:05	09/14/21 07:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	09/13/21 15:05	09/14/21 07:26	1
o-Terphenyl	113		70 - 130	09/13/21 15:05	09/14/21 07:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.73		4.98		mg/Kg			09/14/21 10:21	1

Client Sample ID: CS-2 (1.5'-2.0')

Lab Sample ID: 880-6033-2

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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		09/13/21 15:09	09/14/21 06:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 06:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 06:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/13/21 15:09	09/14/21 06:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 06:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/13/21 15:09	09/14/21 06:10	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		09/13/21 15:09	09/14/21 06:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/13/21 15:09	09/14/21 06:10	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/13/21 15:09	09/14/21 06:10	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		09/13/21 15:05	09/14/21 07:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Client Sample ID: CS-2 (1.5'-2.0')

Lab Sample ID: 880-6033-2

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/21 15:05	09/14/21 07:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/21 15:05	09/14/21 07:48	1
Total TPH	<49.9	U	49.9		mg/Kg		09/13/21 15:05	09/14/21 07:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				09/13/21 15:05	09/14/21 07:48	1
o-Terphenyl	108		70 - 130				09/13/21 15:05	09/14/21 07:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.0		4.99		mg/Kg			09/14/21 10:27	1

Client Sample ID: CS-4 (1.5'-2.0')

Lab Sample ID: 880-6033-3

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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		09/13/21 15:09	09/14/21 06:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/21 15:09	09/14/21 06:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/21 15:09	09/14/21 06:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/21 15:09	09/14/21 06:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/21 15:09	09/14/21 06:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/21 15:09	09/14/21 06:31	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		09/13/21 15:09	09/14/21 06:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				09/13/21 15:09	09/14/21 06:31	1
1,4-Difluorobenzene (Surr)	100		70 - 130				09/13/21 15:09	09/14/21 06:31	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		09/13/21 15:05	09/14/21 08:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/21 15:05	09/14/21 08:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/21 15:05	09/14/21 08:10	1
Total TPH	<49.9	U	49.9		mg/Kg		09/13/21 15:05	09/14/21 08:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				09/13/21 15:05	09/14/21 08:10	1
o-Terphenyl	117		70 - 130				09/13/21 15:05	09/14/21 08:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		5.00		mg/Kg			09/14/21 10:32	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Client Sample ID: SW-1

Lab Sample ID: 880-6033-4

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00250		0.00200		mg/Kg		09/13/21 15:09	09/14/21 06:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 06:51	1
Ethylbenzene	0.00378		0.00200		mg/Kg		09/13/21 15:09	09/14/21 06:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/21 15:09	09/14/21 06:51	1
o-Xylene	0.00438		0.00200		mg/Kg		09/13/21 15:09	09/14/21 06:51	1
Xylenes, Total	0.00438		0.00400		mg/Kg		09/13/21 15:09	09/14/21 06:51	1
Total BTEX	0.0107		0.00400		mg/Kg		09/13/21 15:09	09/14/21 06:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	09/13/21 15:09	09/14/21 06:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/13/21 15:09	09/14/21 06:51	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	<49.8	U	49.8		mg/Kg		09/13/21 15:05	09/14/21 08:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/21 15:05	09/14/21 08:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/21 15:05	09/14/21 08:31	1
Total TPH	<49.8	U	49.8		mg/Kg		09/13/21 15:05	09/14/21 08:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	09/13/21 15:05	09/14/21 08:31	1
o-Terphenyl	118		70 - 130	09/13/21 15:05	09/14/21 08:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.25		5.00		mg/Kg			09/14/21 10:38	1

Client Sample ID: SW-2

Lab Sample ID: 880-6033-5

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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		09/13/21 15:09	09/14/21 07:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/21 15:09	09/14/21 07:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/21 15:09	09/14/21 07:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/21 15:09	09/14/21 07:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/21 15:09	09/14/21 07:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/21 15:09	09/14/21 07:11	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		09/13/21 15:09	09/14/21 07:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	09/13/21 15:09	09/14/21 07:11	1
1,4-Difluorobenzene (Surr)	104		70 - 130	09/13/21 15:09	09/14/21 07:11	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		09/13/21 15:05	09/14/21 08:53	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Client Sample ID: SW-2

Lab Sample ID: 880-6033-5

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/21 15:05	09/14/21 08:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/21 15:05	09/14/21 08:53	1
Total TPH	<50.0	U	50.0		mg/Kg		09/13/21 15:05	09/14/21 08:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				09/13/21 15:05	09/14/21 08:53	1
o-Terphenyl	113		70 - 130				09/13/21 15:05	09/14/21 08:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.6		4.98		mg/Kg			09/14/21 10:44	1

Client Sample ID: SW-7

Lab Sample ID: 880-6033-6

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00414		0.00200		mg/Kg		09/13/21 15:09	09/14/21 07:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 07:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 07:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/21 15:09	09/14/21 07:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 07:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/21 15:09	09/14/21 07:32	1
Total BTEX	0.00414		0.00400		mg/Kg		09/13/21 15:09	09/14/21 07:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				09/13/21 15:09	09/14/21 07:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				09/13/21 15:09	09/14/21 07:32	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		09/13/21 15:05	09/14/21 09:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/21 15:05	09/14/21 09:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/21 15:05	09/14/21 09:14	1
Total TPH	<50.0	U	50.0		mg/Kg		09/13/21 15:05	09/14/21 09:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				09/13/21 15:05	09/14/21 09:14	1
o-Terphenyl	112		70 - 130				09/13/21 15:05	09/14/21 09:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.3		5.04		mg/Kg			09/14/21 11:01	1

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Client Sample Results

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Client Sample ID: SW-8

Lab Sample ID: 880-6033-7

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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		09/13/21 15:09	09/14/21 07:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/21 15:09	09/14/21 07:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/21 15:09	09/14/21 07:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/21 15:09	09/14/21 07:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/21 15:09	09/14/21 07:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/21 15:09	09/14/21 07:52	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/13/21 15:09	09/14/21 07:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	09/13/21 15:09	09/14/21 07:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/13/21 15:09	09/14/21 07:52	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	<49.8	U	49.8		mg/Kg		09/13/21 15:05	09/14/21 09:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/21 15:05	09/14/21 09:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/21 15:05	09/14/21 09:35	1
Total TPH	<49.8	U	49.8		mg/Kg		09/13/21 15:05	09/14/21 09:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	09/13/21 15:05	09/14/21 09:35	1
o-Terphenyl	115		70 - 130	09/13/21 15:05	09/14/21 09:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.53		4.97		mg/Kg			09/14/21 11:06	1

Client Sample ID: CS-3 (1.5-2.0)

Lab Sample ID: 880-6033-8

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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		09/13/21 15:09	09/14/21 08:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 08:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 08:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/13/21 15:09	09/14/21 08:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 08:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/13/21 15:09	09/14/21 08:13	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		09/13/21 15:09	09/14/21 08:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/13/21 15:09	09/14/21 08:13	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/13/21 15:09	09/14/21 08:13	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		09/13/21 15:05	09/14/21 09:57	1

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Client Sample Results

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Client Sample ID: CS-3 (1.5-2.0)

Lab Sample ID: 880-6033-8

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/21 15:05	09/14/21 09:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/21 15:05	09/14/21 09:57	1
Total TPH	<50.0	U	50.0		mg/Kg		09/13/21 15:05	09/14/21 09:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				09/13/21 15:05	09/14/21 09:57	1
o-Terphenyl	103		70 - 130				09/13/21 15:05	09/14/21 09:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.28		4.95		mg/Kg			09/14/21 11:23	1

Surrogate Summary

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
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	DFBZ1				
		(70-130)	(70-130)				
880-6033-1	CS-1 (0.5-1.0')	110	104				
880-6033-2	CS-2 (1.5'-2.0')	113	102				
880-6033-3	CS-4 (1.5'-2.0')	120	100				
880-6033-4	SW-1	127	105				
880-6033-5	SW-2	130	104				
880-6033-6	SW-7	147 S1+	99				
880-6033-7	SW-8	109	100				
880-6033-8	CS-3 (1.5-2.0)	128	98				
890-1241-A-25-E MS	Matrix Spike	99	92				
890-1241-A-25-F MSD	Matrix Spike Duplicate	100	98				
LCS 880-7833/1-A	Lab Control Sample	100	87				
LCSD 880-7833/2-A	Lab Control Sample Dup	94	94				
MB 880-7802/5-A	Method Blank	124	109				
MB 880-7833/5-A	Method Blank	128	97				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-5991-A-1-B MS	Matrix Spike	103	112				
880-5991-A-1-C MSD	Matrix Spike Duplicate	105	113				
880-6033-1	CS-1 (0.5-1.0')	102	113				
880-6033-2	CS-2 (1.5'-2.0')	101	108				
880-6033-3	CS-4 (1.5'-2.0')	105	117				
880-6033-4	SW-1	107	118				
880-6033-5	SW-2	102	113				
880-6033-6	SW-7	102	112				
880-6033-7	SW-8	103	115				
880-6033-8	CS-3 (1.5-2.0)	96	103				
LCS 880-7832/2-A	Lab Control Sample	102	114				
LCSD 880-7832/3-A	Lab Control Sample Dup	105	117				
MB 880-7832/1-A	Method Blank	104	126				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7802/5-A

Matrix: Solid

Analysis Batch: 7820

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:18	09/13/21 17:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:18	09/13/21 17:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:18	09/13/21 17:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/21 10:18	09/13/21 17:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:18	09/13/21 17:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/21 10:18	09/13/21 17:06	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/13/21 10:18	09/13/21 17:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/13/21 10:18	09/13/21 17:06	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/13/21 10:18	09/13/21 17:06	1

Lab Sample ID: MB 880-7833/5-A

Matrix: Solid

Analysis Batch: 7820

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 04:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 04:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 04:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/21 15:09	09/14/21 04:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/21 15:09	09/14/21 04:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/21 15:09	09/14/21 04:40	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/13/21 15:09	09/14/21 04:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/13/21 15:09	09/14/21 04:40	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/13/21 15:09	09/14/21 04:40	1

Lab Sample ID: LCS 880-7833/1-A

Matrix: Solid

Analysis Batch: 7820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07932		mg/Kg		79	70 - 130
Toluene	0.100	0.09582		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09779		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1814		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09163		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-7833/2-A

Matrix: Solid

Analysis Batch: 7820

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7833

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07982		mg/Kg		80	70 - 130	1	35
Toluene	0.100	0.09232		mg/Kg		92	70 - 130	4	35
Ethylbenzene	0.100	0.09475		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1762		mg/Kg		88	70 - 130	3	35
o-Xylene	0.100	0.08775		mg/Kg		88	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-1241-A-25-E MS

Matrix: Solid

Analysis Batch: 7820

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.101	0.07520		mg/Kg		74	70 - 130		
Toluene	<0.00202	U	0.101	0.08454		mg/Kg		84	70 - 130		
Ethylbenzene	<0.00202	U	0.101	0.08782		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene	<0.00403	U	0.202	0.1594		mg/Kg		78	70 - 130		
o-Xylene	<0.00202	U	0.101	0.08199		mg/Kg		81	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-1241-A-25-F MSD

Matrix: Solid

Analysis Batch: 7820

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08072		mg/Kg		80	70 - 130	7	35
Toluene	<0.00202	U	0.100	0.09004		mg/Kg		90	70 - 130	6	35
Ethylbenzene	<0.00202	U	0.100	0.09294		mg/Kg		93	70 - 130	6	35
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1736		mg/Kg		86	70 - 130	9	35
o-Xylene	<0.00202	U	0.100	0.08554		mg/Kg		85	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-7832/1-A

Matrix: Solid

Analysis Batch: 7792

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/13/21 15:04	09/13/21 22:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/21 15:04	09/13/21 22:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/21 15:04	09/13/21 22:26	1
Total TPH	<50.0	U	50.0		mg/Kg		09/13/21 15:04	09/13/21 22:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	09/13/21 15:04	09/13/21 22:26	1
o-Terphenyl	126		70 - 130	09/13/21 15:04	09/13/21 22:26	1

Lab Sample ID: LCS 880-7832/2-A

Matrix: Solid

Analysis Batch: 7792

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	698.3		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	1000	766.9		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-7832/3-A

Matrix: Solid

Analysis Batch: 7792

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7832

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	722.9		mg/Kg		72	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	794.1		mg/Kg		79	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 880-5991-A-1-B MS

Matrix: Solid

Analysis Batch: 7792

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7832

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	824.7		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	908.8		mg/Kg		91	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-5991-A-1-B MS

Matrix: Solid

Analysis Batch: 7792

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7832

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 880-5991-A-1-C MSD

Matrix: Solid

Analysis Batch: 7792

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7832

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	<49.8	U	999	1008		mg/Kg		101	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	933.2		mg/Kg		93	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	113		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7834/1-A

Matrix: Solid

Analysis Batch: 7839

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/14/21 08:25	1

Lab Sample ID: LCS 880-7834/2-A

Matrix: Solid

Analysis Batch: 7839

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	248.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-7834/3-A

Matrix: Solid

Analysis Batch: 7839

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-6033-5 MS

Matrix: Solid

Analysis Batch: 7839

Client Sample ID: SW-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.6		249	257.0		mg/Kg		99	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-6033-5 MSD					Client Sample ID: SW-2							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 7839												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	10.6		249	257.8		mg/Kg		99	90 - 110	0	20	

QC Association Summary

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 7802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7802/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 7820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6033-1	CS-1 (0.5-1.0')	Total/NA	Solid	8021B	7833
880-6033-2	CS-2 (1.5'-2.0')	Total/NA	Solid	8021B	7833
880-6033-3	CS-4 (1.5'-2.0')	Total/NA	Solid	8021B	7833
880-6033-4	SW-1	Total/NA	Solid	8021B	7833
880-6033-5	SW-2	Total/NA	Solid	8021B	7833
880-6033-6	SW-7	Total/NA	Solid	8021B	7833
880-6033-7	SW-8	Total/NA	Solid	8021B	7833
880-6033-8	CS-3 (1.5-2.0)	Total/NA	Solid	8021B	7833
MB 880-7802/5-A	Method Blank	Total/NA	Solid	8021B	7802
MB 880-7833/5-A	Method Blank	Total/NA	Solid	8021B	7833
LCS 880-7833/1-A	Lab Control Sample	Total/NA	Solid	8021B	7833
LCSD 880-7833/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7833
890-1241-A-25-E MS	Matrix Spike	Total/NA	Solid	8021B	7833
890-1241-A-25-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7833

Prep Batch: 7833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6033-1	CS-1 (0.5-1.0')	Total/NA	Solid	5035	
880-6033-2	CS-2 (1.5'-2.0')	Total/NA	Solid	5035	
880-6033-3	CS-4 (1.5'-2.0')	Total/NA	Solid	5035	
880-6033-4	SW-1	Total/NA	Solid	5035	
880-6033-5	SW-2	Total/NA	Solid	5035	
880-6033-6	SW-7	Total/NA	Solid	5035	
880-6033-7	SW-8	Total/NA	Solid	5035	
880-6033-8	CS-3 (1.5-2.0)	Total/NA	Solid	5035	
MB 880-7833/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7833/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7833/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1241-A-25-E MS	Matrix Spike	Total/NA	Solid	5035	
890-1241-A-25-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 7792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6033-1	CS-1 (0.5-1.0')	Total/NA	Solid	8015B NM	7832
880-6033-2	CS-2 (1.5'-2.0')	Total/NA	Solid	8015B NM	7832
880-6033-3	CS-4 (1.5'-2.0')	Total/NA	Solid	8015B NM	7832
880-6033-4	SW-1	Total/NA	Solid	8015B NM	7832
880-6033-5	SW-2	Total/NA	Solid	8015B NM	7832
880-6033-6	SW-7	Total/NA	Solid	8015B NM	7832
880-6033-7	SW-8	Total/NA	Solid	8015B NM	7832
880-6033-8	CS-3 (1.5-2.0)	Total/NA	Solid	8015B NM	7832
MB 880-7832/1-A	Method Blank	Total/NA	Solid	8015B NM	7832
LCS 880-7832/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7832
LCSD 880-7832/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7832
880-5991-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	7832

Eurofins Xenco, Midland

QC Association Summary

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 7792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5991-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7832

Prep Batch: 7832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6033-1	CS-1 (0.5-1.0')	Total/NA	Solid	8015NM Prep	
880-6033-2	CS-2 (1.5'-2.0')	Total/NA	Solid	8015NM Prep	
880-6033-3	CS-4 (1.5'-2.0')	Total/NA	Solid	8015NM Prep	
880-6033-4	SW-1	Total/NA	Solid	8015NM Prep	
880-6033-5	SW-2	Total/NA	Solid	8015NM Prep	
880-6033-6	SW-7	Total/NA	Solid	8015NM Prep	
880-6033-7	SW-8	Total/NA	Solid	8015NM Prep	
880-6033-8	CS-3 (1.5-2.0)	Total/NA	Solid	8015NM Prep	
MB 880-7832/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7832/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7832/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5991-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5991-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6033-1	CS-1 (0.5-1.0')	Soluble	Solid	DI Leach	
880-6033-2	CS-2 (1.5'-2.0')	Soluble	Solid	DI Leach	
880-6033-3	CS-4 (1.5'-2.0')	Soluble	Solid	DI Leach	
880-6033-4	SW-1	Soluble	Solid	DI Leach	
880-6033-5	SW-2	Soluble	Solid	DI Leach	
880-6033-6	SW-7	Soluble	Solid	DI Leach	
880-6033-7	SW-8	Soluble	Solid	DI Leach	
880-6033-8	CS-3 (1.5-2.0)	Soluble	Solid	DI Leach	
MB 880-7834/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7834/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7834/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6033-5 MS	SW-2	Soluble	Solid	DI Leach	
880-6033-5 MSD	SW-2	Soluble	Solid	DI Leach	

Analysis Batch: 7839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6033-1	CS-1 (0.5-1.0')	Soluble	Solid	300.0	7834
880-6033-2	CS-2 (1.5'-2.0')	Soluble	Solid	300.0	7834
880-6033-3	CS-4 (1.5'-2.0')	Soluble	Solid	300.0	7834
880-6033-4	SW-1	Soluble	Solid	300.0	7834
880-6033-5	SW-2	Soluble	Solid	300.0	7834
880-6033-6	SW-7	Soluble	Solid	300.0	7834
880-6033-7	SW-8	Soluble	Solid	300.0	7834
880-6033-8	CS-3 (1.5-2.0)	Soluble	Solid	300.0	7834
MB 880-7834/1-A	Method Blank	Soluble	Solid	300.0	7834
LCS 880-7834/2-A	Lab Control Sample	Soluble	Solid	300.0	7834
LCSD 880-7834/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7834
880-6033-5 MS	SW-2	Soluble	Solid	300.0	7834
880-6033-5 MSD	SW-2	Soluble	Solid	300.0	7834

Eurofins Xenco, Midland

Lab Chronicle

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (0.5'-1.0')

Lab Sample ID: 880-6033-1

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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	7833	09/13/21 15:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/14/21 05:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7832	09/13/21 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7792	09/14/21 07:26	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7834	09/13/21 15:32	CH	XEN MID
Soluble	Analysis	300.0		1			7839	09/14/21 10:21	CH	XEN MID

Client Sample ID: CS-2 (1.5'-2.0')

Lab Sample ID: 880-6033-2

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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	7833	09/13/21 15:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/14/21 06:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7832	09/13/21 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7792	09/14/21 07:48	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7834	09/13/21 15:32	CH	XEN MID
Soluble	Analysis	300.0		1			7839	09/14/21 10:27	CH	XEN MID

Client Sample ID: CS-4 (1.5'-2.0')

Lab Sample ID: 880-6033-3

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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	7833	09/13/21 15:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/14/21 06:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7832	09/13/21 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7792	09/14/21 08:10	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7834	09/13/21 15:32	CH	XEN MID
Soluble	Analysis	300.0		1			7839	09/14/21 10:32	CH	XEN MID

Client Sample ID: SW-1

Lab Sample ID: 880-6033-4

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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	7833	09/13/21 15:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/14/21 06:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7832	09/13/21 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7792	09/14/21 08:31	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7834	09/13/21 15:32	CH	XEN MID
Soluble	Analysis	300.0		1			7839	09/14/21 10:38	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Client Sample ID: SW-2

Lab Sample ID: 880-6033-5

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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	7833	09/13/21 15:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/14/21 07:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7832	09/13/21 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7792	09/14/21 08:53	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7834	09/13/21 15:32	CH	XEN MID
Soluble	Analysis	300.0		1			7839	09/14/21 10:44	CH	XEN MID

Client Sample ID: SW-7

Lab Sample ID: 880-6033-6

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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	7833	09/13/21 15:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/14/21 07:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7832	09/13/21 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7792	09/14/21 09:14	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7834	09/13/21 15:32	CH	XEN MID
Soluble	Analysis	300.0		1			7839	09/14/21 11:01	CH	XEN MID

Client Sample ID: SW-8

Lab Sample ID: 880-6033-7

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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	7833	09/13/21 15:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/14/21 07:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7832	09/13/21 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7792	09/14/21 09:35	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7834	09/13/21 15:32	CH	XEN MID
Soluble	Analysis	300.0		1			7839	09/14/21 11:06	CH	XEN MID

Client Sample ID: CS-3 (1.5-2.0)

Lab Sample ID: 880-6033-8

Date Collected: 09/13/21 00:00

Matrix: Solid

Date Received: 09/13/21 14:34

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	7833	09/13/21 15:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/14/21 08:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7832	09/13/21 15:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7792	09/14/21 09:57	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7834	09/13/21 15:32	CH	XEN MID
Soluble	Analysis	300.0		1			7839	09/14/21 11:23	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (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.

Laboratory References:

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

Eurofins Xenco, Midland

Sample Summary

Client: NT Global
Project/Site: Asio Otus CTB (5.29.21)

Job ID: 880-6033-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6033-1	CS-1 (0.5'-1.0')	Solid	09/13/21 00:00	09/13/21 14:34
880-6033-2	CS-2 (1.5'-2.0')	Solid	09/13/21 00:00	09/13/21 14:34
880-6033-3	CS-4 (1.5'-2.0')	Solid	09/13/21 00:00	09/13/21 14:34
880-6033-4	SW-1	Solid	09/13/21 00:00	09/13/21 14:34
880-6033-5	SW-2	Solid	09/13/21 00:00	09/13/21 14:34
880-6033-6	SW-7	Solid	09/13/21 00:00	09/13/21 14:34
880-6033-7	SW-8	Solid	09/13/21 00:00	09/13/21 14:34
880-6033-8	CS-3 (1.5-2.0)	Solid	09/13/21 00:00	09/13/21 14:34



Chain of Custody



880-6033 Chain of Custody

CONCLUSION

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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@comocophilips.com



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

Project Name.		Asio Otus CTB (5 29 21)		Turn Around											
Project Number		214608		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush											
Project Location		Eddy Co. NM		Due Date		(24HRS)									
Sampler's Name		CM		TAT starts the day received by the lab if received by 4 30pm											
PO #.															
SAMPLE RECEIPT				Tarp Blank.		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice.		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Received Intact:				(Yes) No		Thermometer ID				128					
Cooler Custody Seals				Yes No <input checked="" type="checkbox"/> N/A		Correction Factor				+0.5					
Sample Custody Seals.				Yes No <input checked="" type="checkbox"/> N/A		Temperature Reading				55					
Total Containers.						Corrected Temperature				60					
														Pres. Code	
Parameters															
BTEX 8021B															
8015M (GRO + DRO + MRO)															
Chloride 4500 2000															
HOLD															
None NO															
Cool Cool															
HCL HC															
H ₂ SO ₄ H ₂															
H ₃ PO ₄ HP															
NaHSO ₄ NABIS															
Na ₂ S ₂ O ₃ NaSO ₃															
Zn Acetate+NaOH Zn															
NaOH+Ascorbic Acid SAPC															
DI Water- H ₂ O															
MeOH Me															
HNO ₃ HN															
NaOH Na															

[illegible]

Additoinal Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xencio, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xencio 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 Xencio. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xencio, 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 		9/13/21 1434	2		
3			4		
5			6		

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-6033-1

SDG Number: Eddy Co, NM

Login Number: 6033

List Number: 1

Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	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	

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: *Jacques Harris* Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: *Robert Hamlet* Date: _____

Printed Name: _____ Title: _____

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 53224

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 53224
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2116527874 ASIO OTUS CTB, thank you. This closure is approved.	2/10/2022