Site Information

Closure Report
Minis 2 Federal Com 001 (09.08.2020)
Lea County, New Mexico
Unit P Sec 2 T21S R32E
Incident #: NRM2026956565
32.51041°, -103.63931°

Produced Water & Crude Oil Release
Source: Improper valve positioning
Release Date: 9/8/2020
Volume Released: 7 bbls/PW & 1 bbls/CO
Volume Recovered: 5 bbls/PW & 1bbls/CO

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

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

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

July 5, 2021

New Mexico Oil Conservation Division
1220 South St, Francis Drive
Sante Fe, NM 87505

Re: Closure Report
Minis 2 Federal Com 001 (09.08.2020)
Concho Operating, LLC
Site Location: Unit P, S2, T21S, R32E
(Lat 32.51041º, Long -103.6393)
Lea 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 Minis 2 Federal Com 001. The site is located at 32.51041 º, -103.63931º within Unit P, S2, T21S, R32E, and approximately 28.51 miles West of Eunice, New Mexico, in Lea County (Figures 1 and 2).

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on September 8, 2020. It resulted in the release of approximately seven (7) barrels of produced water and one (1) barrel of crude oil release, and five (5) barrels of produced water and one (1) barrel of crude oil were recovered. The impacted area measured approximately 45' x 6', as shown on Figure 3. The initial C-141 form is attached in Appendix A.

Site Characterization

The site is located within a low 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 4.86 miles West of the site in S06, T21S, R32E. The well has a reported depth to groundwater of 48.64 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 November 3, 2020, Concho Operating, LLC conducted site assessment activities to assess soil impacts resulting from the release. Concho personnel collected a total of three (3) sample points that were advanced to depths ranging surface – 1.0 ft bgs within the release area to assess the vertical extent of potential impacts. The soil sample locations are shown on Figure 3.

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, for chemical analysis. 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 AH-1 showed a high concentration of 857 mg/kg for chlorides at a depth of 1.0 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 onsite from June 23, 2021, through June 24, 2021, to supervise the remediation activities and collect confirmation samples. The area of AH-1 was excavated to a depth of 1.5 ft bgs.

A total of two (2) confirmation samples were collected (CS-1 and CS-2), and four (4) sidewall samples (SW-1, SW-2, SW-3, and SW-4) 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 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 2. The excavation depths and confirmation sample locations are shown in Figure 4.

The area of confirmation sample (CS-2) and the area of sidewall (SW-3) showed a TPH concentration of 245 mg/kg. In addition, both areas were extended an additional 0.25 feet to ensure proper removal of contaminated soils.

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 12 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

Clinton Merritt
Project Manager

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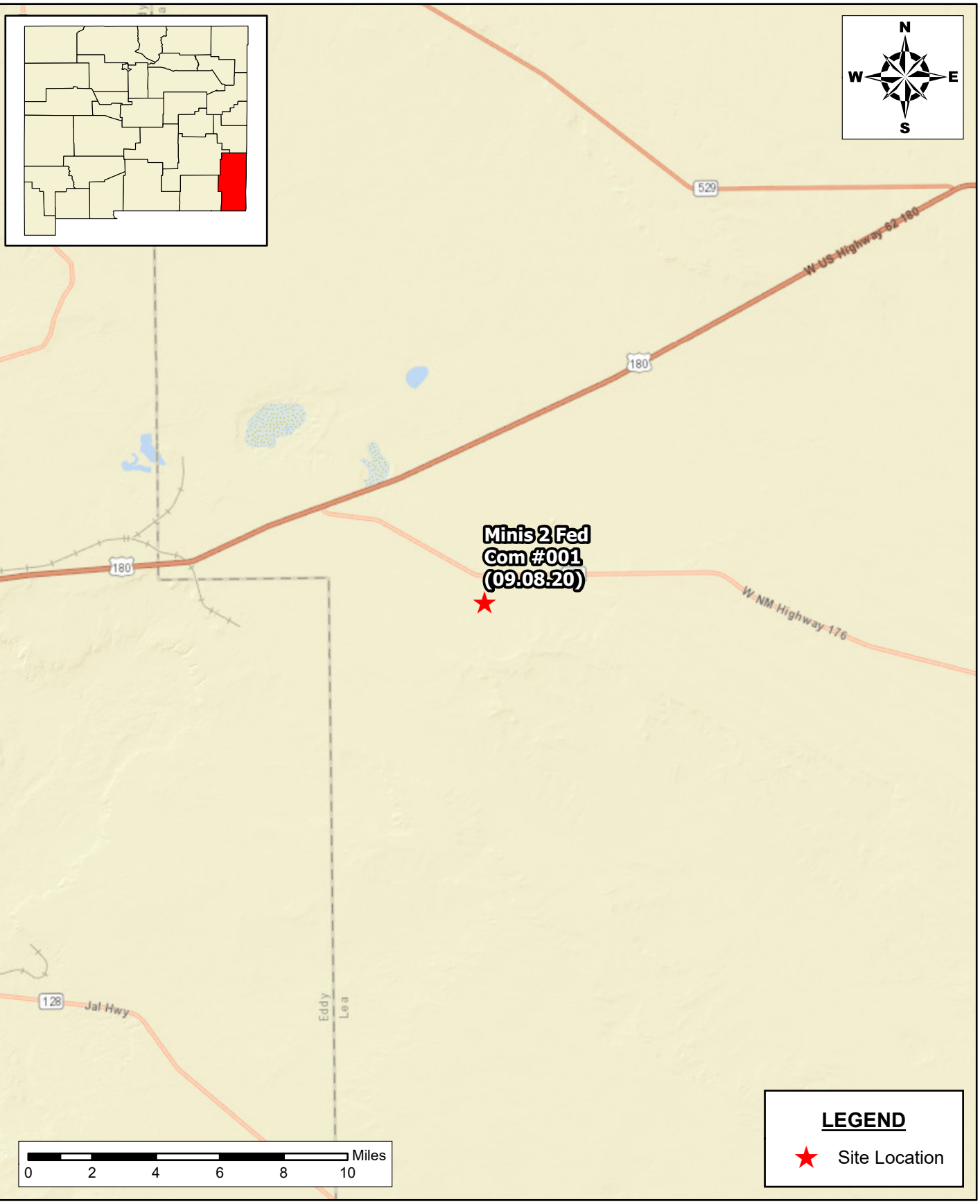

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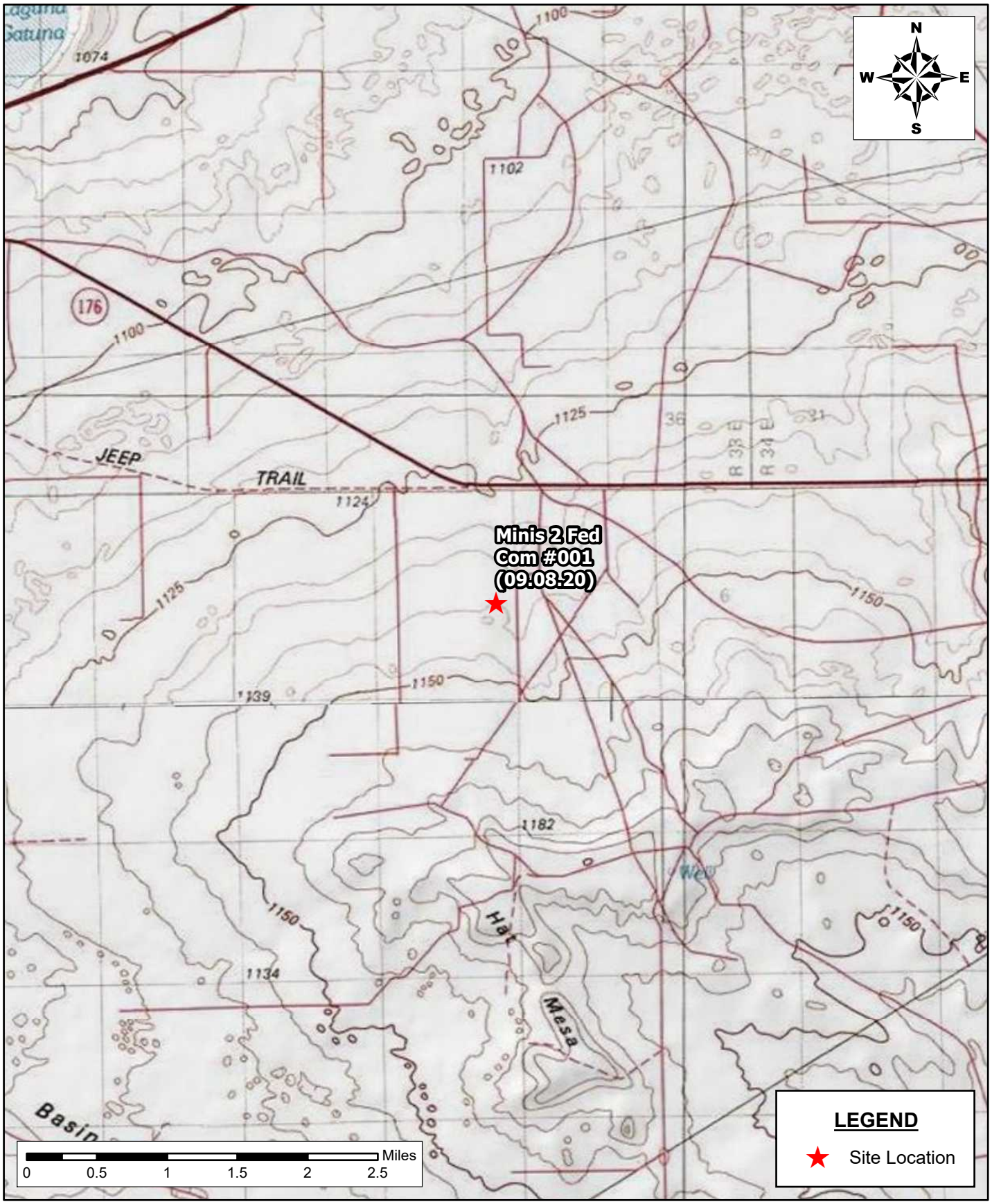
SITE LOCATION MAP
COG OPERATING LLC
MINIS 2 FED COM #001 (09.08.20)
LEA COUNTY, NEW MEXICO
32.51041, -103.63931

SCALE: As Shown	Date: 6/28/2021	PROJECT #: 214346

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

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

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1



AREA MAP
COG OPERATING LLC
MINIS 2 FED COM #001 (09.08.20)
LEA COUNTY, NEW MEXICO
32.51041, -103.63931

SCALE: As Shown	Date: 6/28/2021	PROJECT #: 214346

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DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1

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SOIL EXCAVATION MAP
COG OPERATING LLC
MINIS 2 FED COM #001 (09.08.20)
LEA COUNTY, NEW MEXICO
32.51041, -103.63931

SCALE: As Shown	Date: 6/28/2021	PROJECT #: 214346

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DRAWING NUMBER:
FIGURE 3
SHEET NUMBER:
1 of 1

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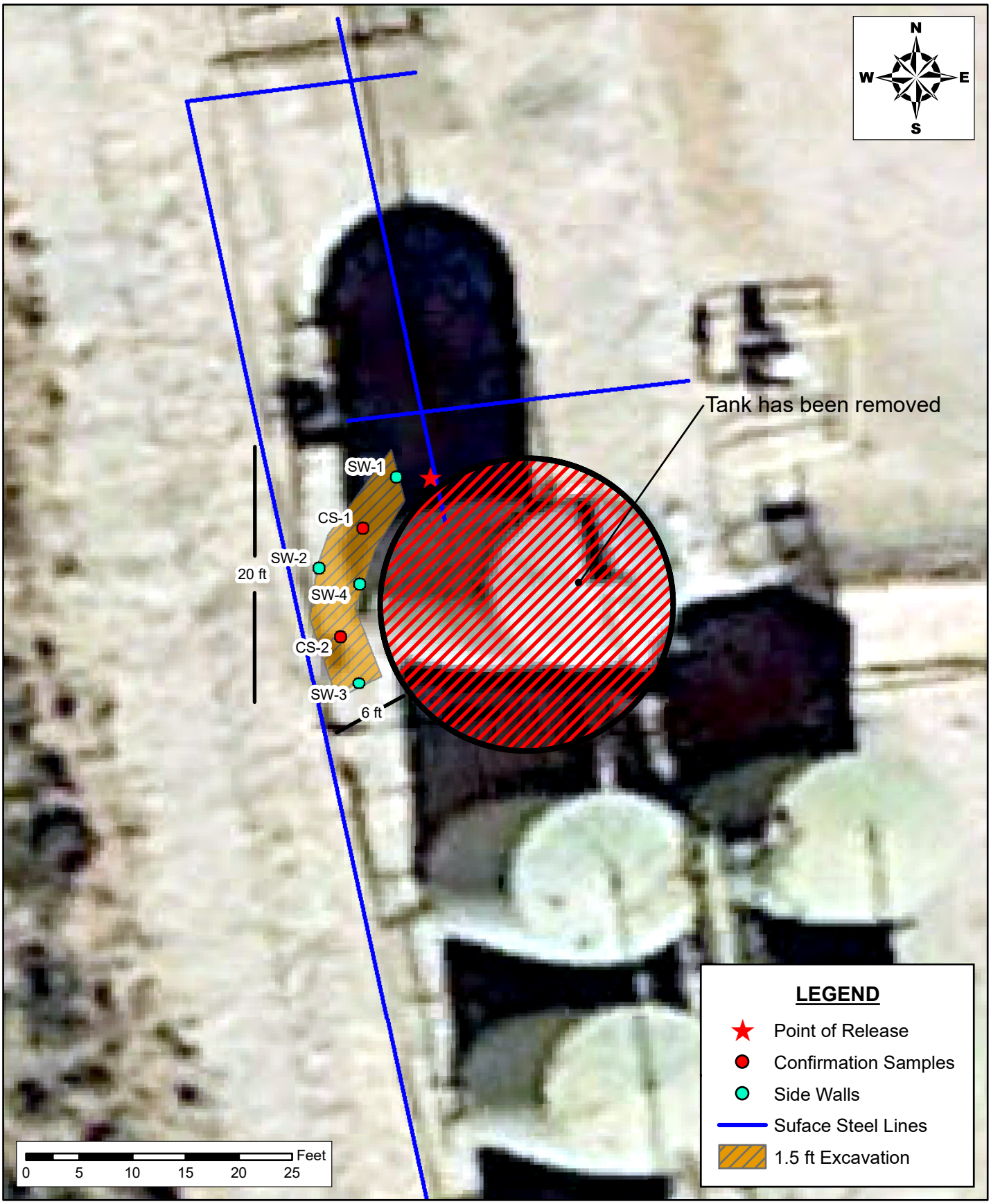

SOIL EXCAVATION MAP
COG OPERATING LLC
MINIS 2 FED COM #001 (09.08.20)
LEA COUNTY, NEW MEXICO
32.51041, -103.63931

SCALE: As Shown	Date: 6/29/2021	PROJECT #: 214346

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DRAWING NUMBER:
FIGURE 4
SHEET NUMBER:
1 of 1

Document Path: P:\2021 PROJECTS\COP\214326 - Minis Federal Com #001 (09.08.20)\7 - Figures\GIS\Geodatabase\Figure_4_EXCMap_06282021.mxd

Tables

Table 1
Concho Operating, LLC
Minis 2 Federal Com #001 (09.08.20)
Lea 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						
AH-1	11/3/2020	0-0.5	<50.0	<50.0	<50.0	<50.0	0.00698	0.0150	0.00353	0.0389	0.0644	527
		1	<49.9	<49.9	<49.9	<49.9	0.00521	0.0118	<0.00201	<0.00201	0.0170	**857**
AH-2	11/3/2020	0-0.5	<49.9	<49.9	<49.9	<49.9	0.00524	0.0119	<0.00201	0.00420	0.0213	107
		1	<50.0	<50.0	<50.0	<50.0	0.00415	0.00788	<0.00200	<0.00200	0.0120	48.7
AH-3	11/3/2020	0-0.5	<49.9	<49.9	<49.9	<49.9	0.00865	0.00591	<0.00200	<0.00200	0.0146	38.1
		1	<50.0	<50.0	<50.0	<50.0	0.00276	0.00879	<0.00199	<0.00199	0.0116	222
Regulatory Limits						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

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

Table 2
Concho Operating, LLC
Minis 2 Federal Com #001 (09.08.20)
Lea 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	6/24/2021	1.5	<50.0	61.2	<50.0	61.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	277
CS-2	6/24/2021	1.5	<50.0	**245**	<50.0	**245**	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	144
	6/30/2021	1.7	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	0.00703	0.00703	8.53
SW-1	6/24/2021	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	123
SW-2	6/24/2021	-	<50.0	57.6	<50.0	57.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	516
SW-3	6/24/2021	-	<49.8	**245**	<49.8	**245**	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	162
	6/30/2021	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	5.81
SW-4	6/24/2021	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	166
Regulatory Limits						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed
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: Minis 2 Fed Com #001

County: Lea County, New Mexico

Description:
View North, of site pre excavation.

Photograph No. 2

Facility: Minis 2 Fed Com #001

County: Lea County, New Mexico

Description:
View South, of site pre excavation.

Photograph No. 3

Facility: Minis 2 Fed Com #001

County: Lea County, New Mexico

Description:
View North, of excavation at sample points CS-2, SW-2, and SW-3.

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Minis 2 Fed Com #001

County: Lea County, New Mexico

Description:
View Southeast, of excavation at sample points CS-1, SW-1, SW-2, and SW-4.

Photograph No. 5

Facility: Minis 2 Fed Com #001

County: Lea County, New Mexico

Description:
View North, of excavation at sample points CS-2, SW-2, and SW-3.

Photograph No. 6

Facility: Minis 2 Fed Com #001

County: Lea County, New Mexico

Description:
View South, of excavation at sample points CS-1, SW-1, SW-2, and SW-4.

Appendix A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2026956565
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NRM2026956565
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Ramona Marcus Date: 9/25/2020

****** LIQUID SPILLS - VOLUME CALCULATIONS ******

Location of spill: COG -Minis 2 Federal Com 1 TB **Date of Spill:** 8-Sep-2020

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank **place an "X" here:** X

Input Data:

	OIL:	WATER:
If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here:	0.0 BBL	0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations

Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	15 ft		25 ft	X	2.75 in	0%
Rectangle Area #2	0 ft	X	0 0	X	0.00 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0.00 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	2 in	0%

Standing Liquid Calculations

Standing Liquid Area	width		length		liquid depth	oil (%)
Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: YES N/A *(place an "X")*

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.
* Sand = **0.08** gallon (gal.) liquid per gal. volume of soil.
* Gravelly (caliche) loam = **0.14** gal. liquid per gal. volume of soil.
* Sandy clay loam soil = **0.14** gal liquid per gal. volume of soil.
* Clay loam = **0.16** gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:
Occurs when the spill soaked soil is contained by barriers, natural (or not).
* Clay loam = **0.20** gal. liquid per gal. volume of soil.
* Gravelly (caliche) loam = **0.25** gal. liquid per gal. volume of soil.
* Sandy loam = **0.5** gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume:	375 sq. ft.	86 cu. ft.	cu. ft.	Total Free Liquid Volume:	sq. ft.	cu. ft.	cu. ft.

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	2.1 BBL	0.0 BBL
Free Liquid:	0.0 BBL	0.0 BBL
Totals:	**2.1 BBL**	**0.0 BBL**
Total Liquid Spill Liquid:	**2.1 BBL**	**0.00 BBL**

Estimated Production Volumes Lost

	H2O	OIL
Estimated Production Spilled:	0.0 BBL	0.0 BBL

Estimated Surface Damage

Surface Area: 375 sq. ft.

Surface Area: .0086 acre

Recovered Volumes

Estimated oil recovered: BBL check - okay

Estimated water recovered: BBL check - okay

Estimated Weights, and Volumes

Saturated Soil = 9,625 lbs 86 cu. ft. 3 cu. yds.

Total Liquid = 2 BBL 90 gallon 749 lbs

Air Emission from flowline leaks:

Volume of oil spill:	-	BBL
Separator gas calculated:	-	MCF
Separator gas released:	-	MCF
Gas released from oil:	-	lb
H2S released:	-	lb
Total HC gas released:	-	lb
Total HC gas released:	-	MCF

Air Emission of Reporting Requirements:

	New Mexico	Texas
HC gas release reportable?	NO	NO
H2S release reportable?	NO	NO

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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: ____ Jacqui 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

ConocoPhillips
Minis 2 Federal Com 001

Legend

- 0.50 Mile Radius
- 4.86 Miles
- 4.92 Miles
- 5.66 Miles
- USGS Water Well
- Minis 2 Fed Com 001
- NMSEO Water Well

243
162
176
W Carlsbad Hwy

48.64' - Drilled 1986
51.69' - Drilled 1991
Minis 2 Fed Com 001
1025' - Drilled 2014

Google Earth
3 mi
N

Low Karst

ConocoPhillips
Minis 2 Federal Com 001

Legend

- 0.50 Mile Radius
- LOW
- Mini 2 Fed Com 1 Battery

176

Minis 2 Fed Com 001

Google Earth

N

2 mi

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

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

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

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

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 03151	CUB	ED	4	1	4	07	21S	32E	621119	3595526*	1352		
CP 00793 POD1	CP	LE	1	1	2	01	21S	32E	628932	3598270*	1000		
CP 01701 POD1	CP	LE		1	3	35	21S	32E	626652	3589283	840	560	280

Average Depth to Water: **560 feet**

Minimum Depth: **560 feet**

Maximum Depth: **560 feet**

Record Count: 3

PLSS Search:

Township: 21S **Range:** 32E

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

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323039103432501

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

USGS 323039103432501 21S.32E.06.11131

Lea County, New Mexico
Latitude 32°30'39", Longitude 103°43'25" NAD27
Land-surface elevation 3,606 feet above NAVD88
The depth of the well is 55 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
1965-12-01		D	62610		3561.89	NGVD29	1	Z		
1965-12-01		D	62611		3563.50	NAVD88	1	Z		
1965-12-01		D	72019	42.50			1	Z		
1968-05-29		D	62610		3559.05	NGVD29	3	Z		
1968-05-29		D	62611		3560.66	NAVD88	3	Z		
1968-05-29		D	72019	45.34			3	Z		
1971-02-03		D	62610		3560.35	NGVD29	3	Z		
1971-02-03		D	62611		3561.96	NAVD88	3	Z		
1971-02-03		D	72019	44.04			3	Z		
1976-02-25		D	62610		3560.73	NGVD29	1	Z		
1976-02-25		D	62611		3562.34	NAVD88	1	Z		
1976-02-25		D	72019	43.66			1	Z		
1981-03-10		D	62610		3558.18	NGVD29	1	Z		
1981-03-10		D	62611		3559.79	NAVD88	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1981-03-10		D	72019	46.21			1	Z		
1986-03-21		D	62610		3555.75	NGVD29	1	Z		
1986-03-21		D	62611		3557.36	NAVD88	1	Z		
1986-03-21		D	72019	48.64			1	Z		

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
Status	3	True value is above reported value due to local conditions
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.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices
U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2021-06-21 16:40:12 EDT
0.36 0.33 nadww01

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323039103432502

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

USGS 323039103432502 21S.32E.06.11131A

Lea County, New Mexico
Latitude 32°30'39", Longitude 103°43'25" NAD27
Land-surface elevation 3,606 feet above NAVD88
The depth of the well is 55 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
1971-02-03		D	62610		3560.89	NGVD29	3	Z		
1971-02-03		D	62611		3562.50	NAVD88	3	Z		
1971-02-03		D	72019	43.50			3	Z		
1976-02-25		D	62610		3561.21	NGVD29	1	Z		
1976-02-25		D	62611		3562.82	NAVD88	1	Z		
1976-02-25		D	72019	43.18			1	Z		
1981-03-10		D	62610		3558.52	NGVD29	1	Z		
1981-03-10		D	62611		3560.13	NAVD88	1	Z		
1981-03-10		D	72019	45.87			1	Z		
1986-03-21		D	62610		3557.21	NGVD29	1	Z		
1986-03-21		D	62611		3558.82	NAVD88	1	Z		
1986-03-21		D	72019	47.18			1	Z		
1991-04-18		D	62610		3552.70	NGVD29	1	Z		
1991-04-18		D	62611		3554.31	NAVD88	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1991-04-18		D	72019	51.69			1	Z		

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
Status	3	True value is above reported value due to local conditions
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.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2021-06-21 16:47:46 EDT
0.36 0.32 nadww01

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	CP 01317 POD1	1	3	2	02	21S	33E	636884	3598450

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY"

Drill Start Date:	05/09/2014	**Drill Finish Date:**	05/15/2014	**Plug Date:**	
Log File Date:	11/04/2014	**PCW Rcv Date:**	02/24/2017	**Source:**	Artesian
Pump Type:	SUBMER	**Pipe Discharge Size:**	3	**Estimated Yield:**	85 GPM
Casing Size:	16.00	**Depth Well:**	1250 feet	**Depth Water:**	1025 feet

Water Bearing Stratifications:	Top	Bottom	Description
	1025	1048	Sandstone/Gravel/Conglomerate
	1048	1212	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	0	1017

Meter Number:	17852	**Meter Make:**	BLANCETT
Meter Serial Number:	021 604 A573	**Meter Multiplier:**	1.0000
Number of Dials:	8	**Meter Type:**	Diversion
Unit of Measure:	Barrels 42 gal.	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
12/31/2016	2016	55655	A	ap		0	
01/31/2017	2017	70691	A	ap		193.804	
03/01/2017	2017	77010	A	ap		81.448	
04/01/2017	2017	77010	A	ap		0	
05/01/2017	2017	77010	A	ap		0	
06/01/2017	2017	77010	A	ap		0	
06/30/2017	2017	130931	A	ap		695.005	
07/31/2017	2017	155864	A	ap		321.370	
10/31/2017	2017	214689	A	ap		758.215	
11/30/2017	2017	238894	A	ap		311.986	
12/29/2017	2017	266406	A	ap		354.611	
01/31/2018	2018	294000	A	ap		355.668	
02/28/2018	2018	316810	A	ap		294.006	
03/30/2018	2018	341442	A	ap		317.490	
04/30/2018	2018	353767	A	ap		158.861	
06/01/2018	2018	383766	A	ap		386.667	
06/29/2018	2018	397800	A	ap		180.889	
07/31/2018	2018	429815	A	ap		412.652	
09/01/2018	2018	458590	A	ap		370.890	

10/01/2018	2018	482605	A	ap	309.537	
11/01/2018	2018	494524	A	ap	153.628	
11/30/2018	2018	532806	A	ap	493.429	
03/01/2019	2019	575813	A	ap	554.331	
04/01/2019	2019	575813	A	ap	0	
05/01/2019	2019	575813	A	ap	0	
05/31/2019	2019	575813	A	ap	0	
06/30/2019	2019	575813	A	ap	0	
08/01/2019	2019	700916	A	RPT	16.125	
09/01/2019	2019	705927	A	RPT	0.646	
09/30/2019	2019	746152	A	RPT	5.185	
10/31/2019	2019	746152	A	RPT	0	
11/30/2019	2019	746152	A	RPT	0	
12/31/2019	2019	775181	A	RPT	3.742	
02/01/2020	2020	775181	A	RPT	0	
03/01/2020	2020	775181	A	RPT	0	
04/01/2020	2020	775181	A	RPT	0	
05/01/2020	2020	775181	A	RPT	0	
06/01/2020	2020	775181	A	RPT	0	
08/01/2020	2020	775181	A	RPT	0	
09/01/2020	2020	791489	A	RPT	2.102	
10/01/2020	2020	791489	A	RPT	0	
10/31/2020	2020	791489	A	WEB	0	X
11/30/2020	2020	791489	A	WEB	0	X
12/31/2020	2020	807868	A	WEB	2.111	X
01/31/2021	2021	821031	A	WEB	1.697	X

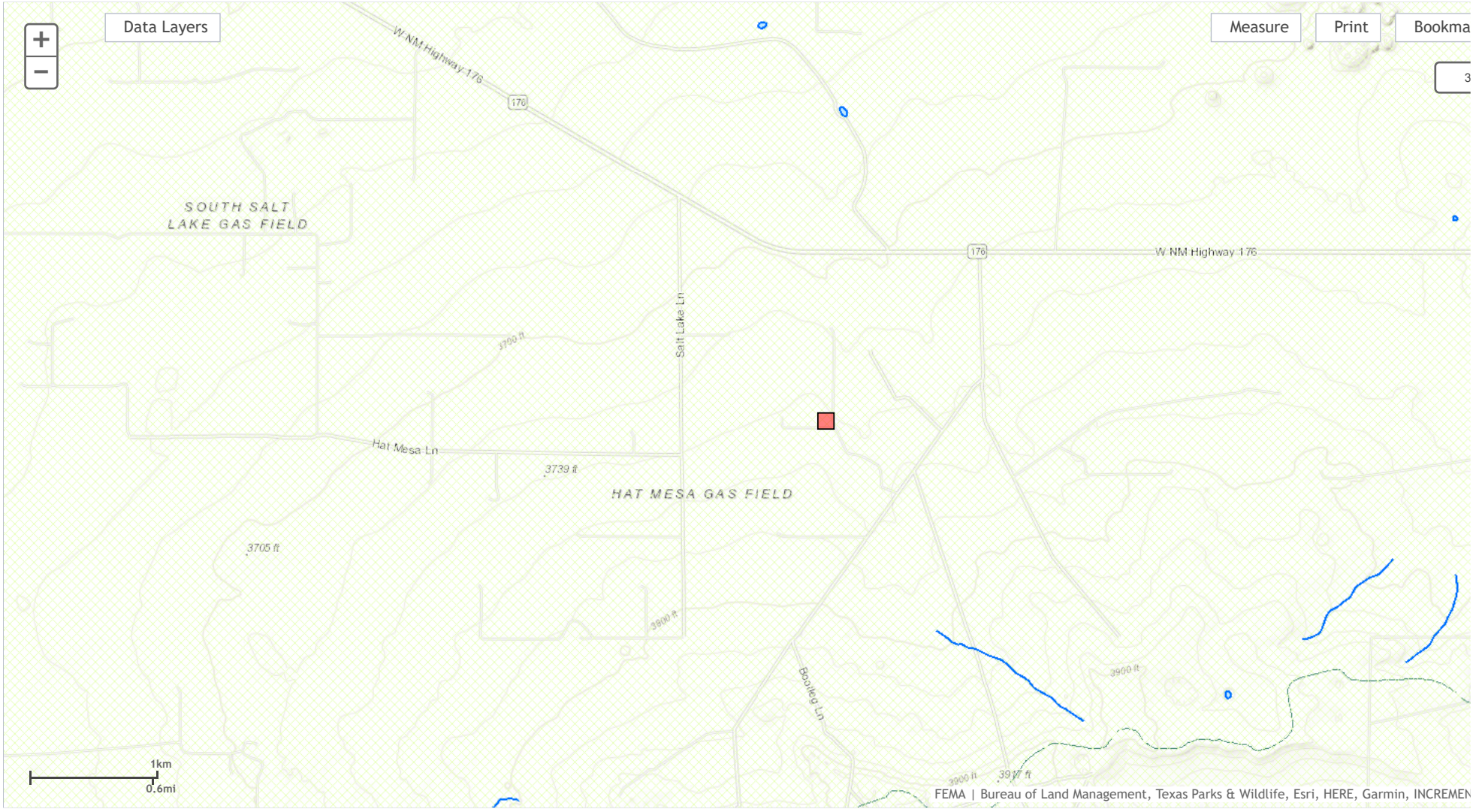
x

**YTD Meter Amounts:	Year	Amount
	2016	0
	2017	2716.439
	2018	3433.717
	2019	580.029
	2020	4.213
	2021	1.697

x

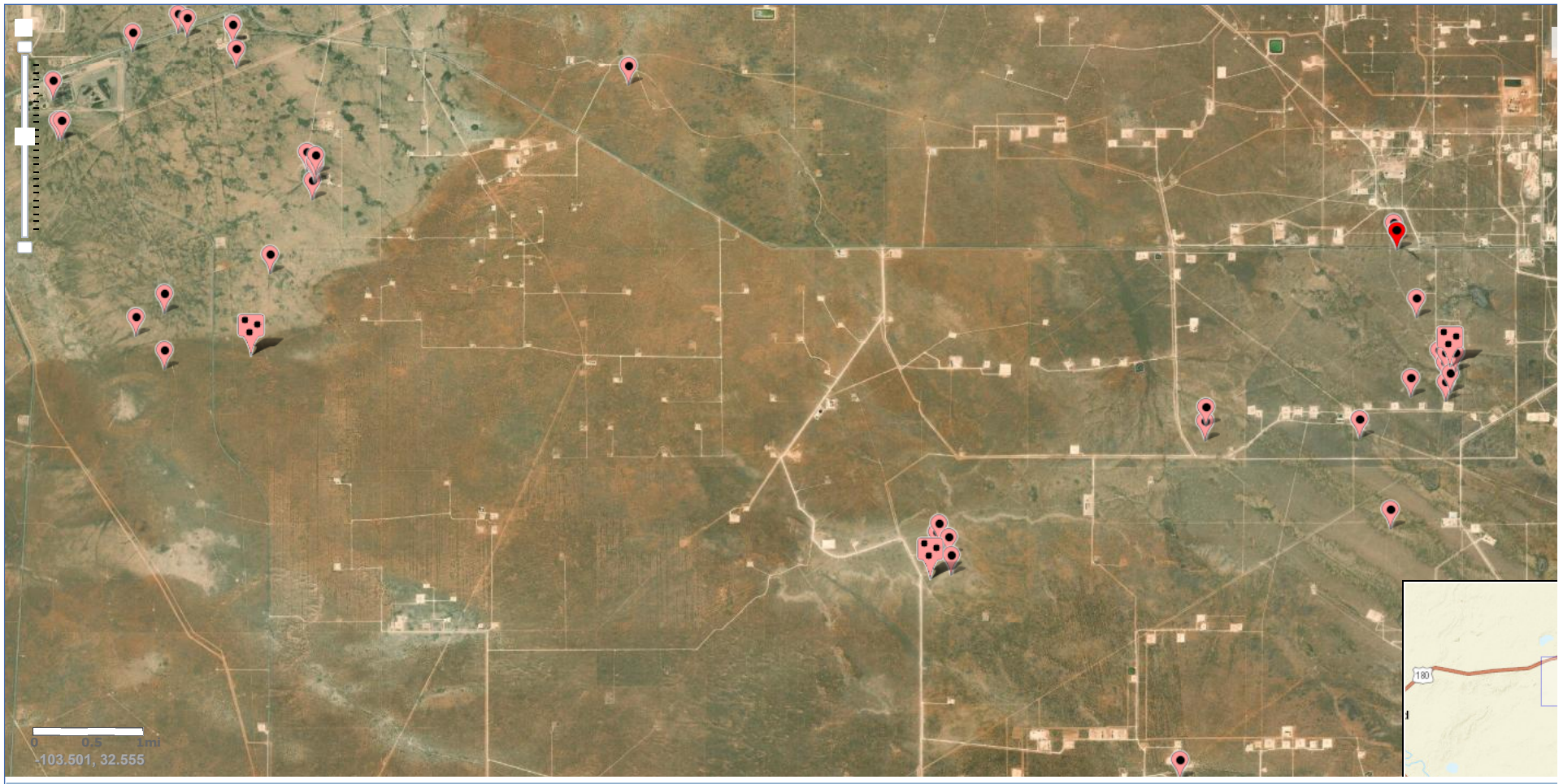
NFHL Web Mapping Application

Please select a county



USGS science for a changing world

National Water Information System: Mapper



Site Information

Appendix C

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Certificate of Analysis Summary 677011

COG Operating LLC, Artesia, NM

Project Name: Minis Federal Com #001 (09-08-20)

Project Id:

Contact: Ike Tavarez

Project Location: Lea County, NM

Date Received in Lab: Thu 11.05.2020 14:54

Report Date: 11.06.2020 16:46

Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	677011-001		677011-002		677011-003		677011-004		677011-005		677011-006	
	Field Id:	AH-1 0.5'		AH-1 1'		AH-2 0.5'		AH-2 1'		AH-3 0.5'		AH-3 1'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.03.2020 00:00		11.03.2020 00:00		11.03.2020 00:00		11.03.2020 00:00		11.03.2020 00:00		11.03.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	11.05.2020 17:15		11.05.2020 17:15		11.05.2020 17:15		11.05.2020 17:15		11.05.2020 17:15		11.05.2020 17:15	
	Analyzed:	11.06.2020 11:44		11.06.2020 12:05		11.06.2020 12:25		11.06.2020 12:46		11.06.2020 13:06		11.06.2020 13:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.00698	0.00200	0.00521	0.00201	0.00524	0.00201	0.00415	0.00200	0.00865	0.00200	0.00276	0.00199
Toluene		0.0150	0.00200	0.0118	0.00201	0.0119	0.00201	0.00788	0.00200	0.00591	0.00200	0.00879	0.00199
Ethylbenzene		0.00353	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		0.00440	0.00401	<0.00402	0.00402	0.00420	0.00402	<0.00400	0.00400	<0.00399	0.00399	<0.00398	0.00398
o-Xylene		0.0345	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		0.0389	0.00200	<0.00201	0.00201	0.00420	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		0.0644	0.00200	0.0170	0.00201	0.0213	0.00201	0.0120	0.00200	0.0146	0.00200	0.0116	0.00199
Chloride by EPA 300	***Extracted:***	11.05.2020 18:50		11.05.2020 18:50		11.05.2020 18:50		11.05.2020 18:50		11.05.2020 18:50		11.05.2020 18:50	
	Analyzed:	11.06.2020 11:29		11.06.2020 11:34		11.06.2020 11:39		11.06.2020 11:55		11.06.2020 12:00		11.06.2020 12:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		527	5.03	857	5.00	107	5.00	48.7	4.98	38.1	5.02	222	4.96
TPH By SW8015 Mod	***Extracted:***	11.05.2020 16:00		11.05.2020 16:00		11.05.2020 16:00		11.05.2020 16:00		11.05.2020 16:00		11.05.2020 16:00	
	Analyzed:	11.05.2020 23:11		11.05.2020 23:30		11.05.2020 23:49		11.06.2020 00:09		11.06.2020 00:28		11.06.2020 00:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Diesel Range Organics		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total TPH		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0

BRL - Below Reporting Limit

Jessica Kramer

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Analytical Report 677011

for

COG Operating LLC

Project Manager: Ike Tavarez

Minis Federal Com #001 (09-08-20)

11.06.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.06.2020

Project Manager: **Ike Tavarez**
COG Operating LLC
2407 Pecos Avenue
Artesia, NM 88210

Reference: Eurofins Xenco, LLC Report No(s): **677011**
Minis Federal Com #001 (09-08-20)
Project Address: Lea County, NM

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677011. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677011 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1 0.5'	S	11.03.2020 00:00		677011-001
AH-1 1'	S	11.03.2020 00:00		677011-002
AH-2 0.5'	S	11.03.2020 00:00		677011-003
AH-2 1'	S	11.03.2020 00:00		677011-004
AH-3 0.5'	S	11.03.2020 00:00		677011-005
AH-3 1'	S	11.03.2020 00:00		677011-006

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CASE NARRATIVE

Client Name: COG Operating LLC

Project Name: Minis Federal Com #001 (09-08-20)

Project ID:
Work Order Number(s): *677011*

Report Date: *11.06.2020*
Date Received: *11.05.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id: **AH-1 0.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677011-001 Date Collected: 11.03.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 18:50 % Moisture:

Seq Number: 3141576 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**527**	5.03	mg/kg	11.06.2020 11:29		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	11.05.2020 23:11	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	11.05.2020 23:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.05.2020 23:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.05.2020 23:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	11.05.2020 23:11	
o-Terphenyl	84-15-1	107	%	70-130	11.05.2020 23:11	

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id:	**AH-1 0.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677011-001	Date Collected:	11.03.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:15	% Moisture:	
Seq Number:	3141552			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00698**	0.00200	mg/kg	11.06.2020 11:44		1
Toluene	108-88-3	**0.0150**	0.00200	mg/kg	11.06.2020 11:44		1
Ethylbenzene	100-41-4	**0.00353**	0.00200	mg/kg	11.06.2020 11:44		1
m,p-Xylenes	179601-23-1	**0.00440**	0.00401	mg/kg	11.06.2020 11:44		1
o-Xylene	95-47-6	**0.0345**	0.00200	mg/kg	11.06.2020 11:44		1
Total Xylenes	1330-20-7	**0.0389**	0.00200	mg/kg	11.06.2020 11:44		1
Total BTEX		**0.0644**	0.00200	mg/kg	11.06.2020 11:44		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.06.2020 11:44	
4-Bromofluorobenzene	460-00-4	110	%	70-130	11.06.2020 11:44	

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id: **AH-1 1'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677011-002 Date Collected: 11.03.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 18:50 % Moisture:

Seq Number: 3141576 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**857**	5.00	mg/kg	11.06.2020 11:34		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	11.05.2020 23:30	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	11.05.2020 23:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.05.2020 23:30	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.05.2020 23:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	11.05.2020 23:30	
o-Terphenyl	84-15-1	103	%	70-130	11.05.2020 23:30	

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id:	**AH-1 1'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677011-002	Date Collected:	11.03.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:15	% Moisture:	
Seq Number:	3141552			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00521**	0.00201	mg/kg	11.06.2020 12:05		1
Toluene	108-88-3	**0.0118**	0.00201	mg/kg	11.06.2020 12:05		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.06.2020 12:05	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.06.2020 12:05	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.06.2020 12:05	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.06.2020 12:05	U	1
Total BTEX		**0.0170**	0.00201	mg/kg	11.06.2020 12:05		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.06.2020 12:05	
4-Bromofluorobenzene	460-00-4	105	%	70-130	11.06.2020 12:05	

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id: **AH-2 0.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677011-003 Date Collected: 11.03.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 18:50 % Moisture:

Seq Number: 3141576 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**107**	5.00	mg/kg	11.06.2020 11:39		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	11.05.2020 23:49	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	11.05.2020 23:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.05.2020 23:49	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.05.2020 23:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	11.05.2020 23:49	
o-Terphenyl	84-15-1	104	%	70-130	11.05.2020 23:49	

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id:	**AH-2 0.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677011-003	Date Collected:	11.03.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:15	% Moisture:	
Seq Number:	3141552			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00524**	0.00201	mg/kg	11.06.2020 12:25		1
Toluene	108-88-3	**0.0119**	0.00201	mg/kg	11.06.2020 12:25		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.06.2020 12:25	U	1
m,p-Xylenes	179601-23-1	**0.00420**	0.00402	mg/kg	11.06.2020 12:25		1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.06.2020 12:25	U	1
Total Xylenes	1330-20-7	**0.00420**	0.00201	mg/kg	11.06.2020 12:25		1
Total BTEX		**0.0213**	0.00201	mg/kg	11.06.2020 12:25		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	11.06.2020 12:25	
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.06.2020 12:25	

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id: **AH-2 1'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677011-004 Date Collected: 11.03.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 18:50 % Moisture:

Seq Number: 3141576 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**48.7**	4.98	mg/kg	11.06.2020 11:55		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	11.06.2020 00:09	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	11.06.2020 00:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.2020 00:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.06.2020 00:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	11.06.2020 00:09	
o-Terphenyl	84-15-1	104	%	70-130	11.06.2020 00:09	

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id:	**AH-2 1'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677011-004	Date Collected:	11.03.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:15	% Moisture:	
Seq Number:	3141552			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00415**	0.00200	mg/kg	11.06.2020 12:46		1
Toluene	108-88-3	**0.00788**	0.00200	mg/kg	11.06.2020 12:46		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.06.2020 12:46	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.06.2020 12:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.06.2020 12:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.06.2020 12:46	U	1
Total BTEX		**0.0120**	0.00200	mg/kg	11.06.2020 12:46		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	11.06.2020 12:46	
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.06.2020 12:46	

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id: **AH-3 0.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677011-005 Date Collected: 11.03.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 18:50 % Moisture:

Seq Number: 3141576 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**38.1**	5.02	mg/kg	11.06.2020 12:00		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	11.06.2020 00:28	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	11.06.2020 00:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.06.2020 00:28	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.06.2020 00:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	11.06.2020 00:28	
o-Terphenyl	84-15-1	105	%	70-130	11.06.2020 00:28	

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id:	**AH-3 0.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677011-005	Date Collected:	11.03.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:15	% Moisture:	
Seq Number:	3141552			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00865**	0.00200	mg/kg	11.06.2020 13:06		1
Toluene	108-88-3	**0.00591**	0.00200	mg/kg	11.06.2020 13:06		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.06.2020 13:06	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.06.2020 13:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.06.2020 13:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.06.2020 13:06	U	1
Total BTEX		**0.0146**	0.00200	mg/kg	11.06.2020 13:06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.06.2020 13:06	
4-Bromofluorobenzene	460-00-4	103	%	70-130	11.06.2020 13:06	

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id: **AH-3 1'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677011-006 Date Collected: 11.03.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 18:50 % Moisture:

Seq Number: 3141576 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**222**	4.96	mg/kg	11.06.2020 12:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	11.06.2020 00:47	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	11.06.2020 00:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.2020 00:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.06.2020 00:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	11.06.2020 00:47	
o-Terphenyl	84-15-1	107	%	70-130	11.06.2020 00:47	

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Certificate of Analytical Results 677011

COG Operating LLC, Artesia, NM

Minis Federal Com #001 (09-08-20)

Sample Id:	**AH-3 1'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677011-006	Date Collected:	11.03.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:15	% Moisture:	
Seq Number:	3141552			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00276**	0.00199	mg/kg	11.06.2020 13:27		1
Toluene	108-88-3	**0.00879**	0.00199	mg/kg	11.06.2020 13:27		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.06.2020 13:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.06.2020 13:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.06.2020 13:27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.06.2020 13:27	U	1
Total BTEX		**0.0116**	0.00199	mg/kg	11.06.2020 13:27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	11.06.2020 13:27	
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.06.2020 13:27	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 677011

COG Operating LLC

Minis Federal Com #001 (09-08-20)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141576 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714626-1-BLK — LCS Sample Id: 7714626-1-BKS — LCSD Sample Id: 7714626-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	262	105	261	104	90-110	0	20	mg/kg	11.06.2020 10:57	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141576 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 677006-002 — MS Sample Id: 677006-002 S — MSD Sample Id: 677006-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3300	1250	4700	112	4630	106	90-110	2	20	mg/kg	11.06.2020 12:27	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141576 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 677009-025 — MS Sample Id: 677009-025 S — MSD Sample Id: 677009-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.0	248	275	106	275	106	90-110	0	20	mg/kg	11.06.2020 11:13	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141555 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714624-1-BLK — LCS Sample Id: 7714624-1-BKS — LCSD Sample Id: 7714624-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<50.0	1000	1040	104	1010	101	70-130	3	20	mg/kg	11.05.2020 17:24	
Diesel Range Organics	<50.0	1000	1110	111	1140	114	70-130	3	20	mg/kg	11.05.2020 17:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		128		122		70-130	%	11.05.2020 17:24
o-Terphenyl	121		127		127		70-130	%	11.05.2020 17:24

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141555 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714624-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.05.2020 17:04	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 677011

COG Operating LLC

Minis Federal Com #001 (09-08-20)

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3141555 Matrix: Soil Date Prep: 11.05.2020
Parent Sample Id: 676976-001 MS Sample Id: 676976-001 S MSD Sample Id: 676976-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<49.9	997	941	94	957	96	70-130	2	20	mg/kg	11.05.2020 18:22	
Diesel Range Organics	<49.9	997	984	99	1010	101	70-130	3	20	mg/kg	11.05.2020 18:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		109		70-130	%	11.05.2020 18:22
o-Terphenyl	122		120		70-130	%	11.05.2020 18:22

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3141552 Matrix: Solid Date Prep: 11.05.2020
MB Sample Id: 7714647-1-BLK LCS Sample Id: 7714647-1-BKS LCSD Sample Id: 7714647-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0915	92	0.0863	86	70-130	6	35	mg/kg	11.06.2020 08:41	
Toluene	<0.00200	0.100	0.0908	91	0.0876	88	70-130	4	35	mg/kg	11.06.2020 08:41	
Ethylbenzene	<0.00200	0.100	0.0937	94	0.0912	91	70-130	3	35	mg/kg	11.06.2020 08:41	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.180	90	70-130	1	35	mg/kg	11.06.2020 08:41	
o-Xylene	<0.00200	0.100	0.0908	91	0.0894	89	70-130	2	35	mg/kg	11.06.2020 08:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		99		98		70-130	%	11.06.2020 08:41
4-Bromofluorobenzene	102		98		104		70-130	%	11.06.2020 08:41

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3141552 Matrix: Soil Date Prep: 11.05.2020
Parent Sample Id: 676594-002 MS Sample Id: 676594-002 S MSD Sample Id: 676594-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	<0.00200	0	<0.00200	0	70-130	NC	35	mg/kg	11.06.2020 09:22	X
Toluene	<0.00200	0.0998	<0.00200	0	<0.00200	0	70-130	NC	35	mg/kg	11.06.2020 09:22	X
Ethylbenzene	<0.00200	0.0998	<0.00200	0	<0.00200	0	70-130	NC	35	mg/kg	11.06.2020 09:22	X
m,p-Xylenes	<0.00399	0.200	0.0771	39	0.0537	27	70-130	36	35	mg/kg	11.06.2020 09:22	X
o-Xylene	<0.00200	0.0998	0.0228	23	0.0113	11	70-130	67	35	mg/kg	11.06.2020 09:22	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		95		70-130	%	11.06.2020 09:22
4-Bromofluorobenzene	111		110		70-130	%	11.06.2020 09:22

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Analysis Request of Chain of Custody Record

CONCHO

One Concho Center/600/Illinois
Avenue/Midland, Texas
Tel (432) 683-7443

6777011
~~6777009~~

Client Name:	COG	**Site Manager:**	Ike Tavarez itavarez@concho.com Robert Grubbs Jr rgrubbs@concho.com
Project Name:	Minis 2 Federal Com #001 (09-08-20)		
Project Location: (county, state)	Lea County, NM	**Project #:**	
Invoice to:	COG		
Receiving Laboratory:	Xenco	**Sampler Signature:**	Robert Grubbs Jr
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	TPH TX1005 (Ext to C35)	BTEX 8021B	TPH 8015M (GRO - DRO - MRO)	Chloride	Hold
	AH-1 0.5'	11/3/2020			X				X		1			X	X	X	
	AH-1 1'	11/3/2020			X				X		1			X	X	X	
	AH-2 0.5'	11/3/2020			X				X		1			X	X	X	
	AH-2 1'	11/3/2020			X				X		1			X	X	X	
	AH-3 0.5'	11/3/2020			X				X		1			X	X	X	
	AH-3 1'	11/3/2020			X				X		1			X	X	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Robert Grubbs Jr	11/5/2020	1703	JKRAMER	11/5	1454
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature 4.3/4.8

REMARKS:

X	RUSH: Same Day **24 hr** 48 hr 72 hr
	Rush Charges Authorized
	Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating LLC

Date/ Time Received: 11.05.2020 02.54.00 PM

Work Order #: 677011

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.8
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11.05.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11.06.2020
Jessica Kramer

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-3457-1
Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Minis 2 Fed Com (09.08.20)

For:
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Mike Carmona

JKramer

Authorized for release by:
7/1/2021 11:15:18 AM

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

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

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

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Laboratory Job ID: 880-3457-1
SDG: Lea Co, NM

Table of Contents

Definitions/Glossary

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea 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
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

Job ID: 880-3457-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-3457-1

Receipt
The samples were received on 6/25/2021 11:10 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 2.8°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-1 (1.5') (880-3457-1), SW-2 (880-3457-4), (880-3447-A-1-E MS) and (880-3447-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
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: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

Client Sample ID: CS-1 (1.5')

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-1
Matrix: Solid

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		06/25/21 12:16	06/25/21 22:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/25/21 12:16	06/25/21 22:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/25/21 12:16	06/25/21 22:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/25/21 12:16	06/25/21 22:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/25/21 12:16	06/25/21 22:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/25/21 12:16	06/25/21 22:17	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		06/25/21 12:16	06/25/21 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*06/25/21 12:16*	*06/25/21 22:17*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/25/21 12:16*	*06/25/21 22:17*	*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		06/25/21 14:16	06/26/21 01:33	1
Diesel Range Organics (Over C10-C28)	**61.2**		50.0		mg/Kg		06/25/21 14:16	06/26/21 01:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/26/21 01:33	1
Total TPH	**61.2**		50.0		mg/Kg		06/25/21 14:16	06/26/21 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/25/21 14:16*	*06/26/21 01:33*	*1*
o-Terphenyl	*107*		*70 - 130*	*06/25/21 14:16*	*06/26/21 01:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**277**		4.99		mg/Kg			06/28/21 13:37	1

Client Sample ID: CS-2 (1.5')

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-2
Matrix: Solid

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		06/25/21 12:16	06/25/21 22:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/25/21 12:16	06/25/21 22:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/25/21 12:16	06/25/21 22:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/25/21 12:16	06/25/21 22:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/25/21 12:16	06/25/21 22:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/25/21 12:16	06/25/21 22:38	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		06/25/21 12:16	06/25/21 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/25/21 12:16*	*06/25/21 22:38*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/25/21 12:16*	*06/25/21 22:38*	*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 *1	50.0		mg/Kg		06/30/21 08:44	06/30/21 15:24	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

Client Sample ID: CS-2 (1.5')

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-2

Matrix: Solid

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)	**245**		50.0		mg/Kg		06/30/21 08:44	06/30/21 15:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/30/21 08:44	06/30/21 15:24	1
Total TPH	**245**		50.0		mg/Kg		06/30/21 08:44	06/30/21 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/25/21 14:16*	*06/26/21 01:55*	*1*
1-Chlorooctane	*93*		*70 - 130*	*06/30/21 08:44*	*06/30/21 15:24*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/25/21 14:16*	*06/26/21 01:55*	*1*
o-Terphenyl	*99*		*70 - 130*	*06/30/21 08:44*	*06/30/21 15:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**144**		5.04		mg/Kg			06/28/21 13:53	1

Client Sample ID: SW-1

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-3

Matrix: Solid

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		06/25/21 12:16	06/25/21 22:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/25/21 12:16	06/25/21 22:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/25/21 12:16	06/25/21 22:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/25/21 12:16	06/25/21 22:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/25/21 12:16	06/25/21 22:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/25/21 12:16	06/25/21 22:58	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/25/21 12:16	06/25/21 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/25/21 12:16*	*06/25/21 22:58*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/25/21 12:16*	*06/25/21 22:58*	*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		06/25/21 14:16	06/26/21 02:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/25/21 14:16	06/26/21 02:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/25/21 14:16	06/26/21 02:16	1
Total TPH	<49.9	U	49.9		mg/Kg		06/25/21 14:16	06/26/21 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*06/25/21 14:16*	*06/26/21 02:16*	*1*
o-Terphenyl	*112*		*70 - 130*	*06/25/21 14:16*	*06/26/21 02:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**123**		5.02		mg/Kg			06/28/21 13:59	1

Client Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

Client Sample ID: SW-2

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 23:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 23:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 23:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/25/21 12:16	06/25/21 23:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 23:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/25/21 12:16	06/25/21 23:18	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		06/25/21 12:16	06/25/21 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*06/25/21 12:16*	*06/25/21 23:18*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/25/21 12:16*	*06/25/21 23:18*	*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		06/25/21 14:16	06/26/21 02:58	1
Diesel Range Organics (Over C10-C28)	**57.6**		50.0		mg/Kg		06/25/21 14:16	06/26/21 02:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/26/21 02:58	1
Total TPH	**57.6**		50.0		mg/Kg		06/25/21 14:16	06/26/21 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/25/21 14:16*	*06/26/21 02:58*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/25/21 14:16*	*06/26/21 02:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**516**		5.02		mg/Kg			06/28/21 14:04	1

Client Sample ID: SW-3

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-5

Matrix: Solid

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		06/25/21 12:16	06/25/21 23:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/25/21 12:16	06/25/21 23:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/25/21 12:16	06/25/21 23:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/25/21 12:16	06/25/21 23:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/25/21 12:16	06/25/21 23:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/25/21 12:16	06/25/21 23:39	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/25/21 12:16	06/25/21 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/25/21 12:16*	*06/25/21 23:39*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/25/21 12:16*	*06/25/21 23:39*	*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	<49.8	U *1	49.8		mg/Kg		06/30/21 08:44	06/30/21 15:45	1

Client Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

Client Sample ID: SW-3

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-5
Matrix: Solid

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)	**245**		49.8		mg/Kg		06/30/21 08:44	06/30/21 15:45	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/30/21 08:44	06/30/21 15:45	1
Total TPH	**245**		49.8		mg/Kg		06/30/21 08:44	06/30/21 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*06/25/21 14:16*	*06/26/21 03:19*	*1*
1-Chlorooctane	*97*		*70 - 130*	*06/30/21 08:44*	*06/30/21 15:45*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/25/21 14:16*	*06/26/21 03:19*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/30/21 08:44*	*06/30/21 15:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**162**		5.04		mg/Kg			06/28/21 14:10	1

Client Sample ID: SW-4

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 23:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 23:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 23:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/25/21 12:16	06/25/21 23:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 23:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/25/21 12:16	06/25/21 23:59	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/25/21 12:16	06/25/21 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/25/21 12:16*	*06/25/21 23:59*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/25/21 12:16*	*06/25/21 23:59*	*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		06/25/21 14:16	06/26/21 03:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/25/21 14:16	06/26/21 03:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/25/21 14:16	06/26/21 03:41	1
Total TPH	<49.9	U	49.9		mg/Kg		06/25/21 14:16	06/26/21 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/25/21 14:16*	*06/26/21 03:41*	*1*
o-Terphenyl	*110*		*70 - 130*	*06/25/21 14:16*	*06/26/21 03:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**166**		4.96		mg/Kg			06/28/21 14:26	1

Surrogate Summary

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-3457-1	CS-1 (1.5')	151 S1+	90
880-3457-2	CS-2 (1.5')	109	96
880-3457-3	SW-1	111	98
880-3457-4	SW-2	142 S1+	91
880-3457-5	SW-3	110	94
880-3457-6	SW-4	108	95
LCS 880-4634/1-A	Lab Control Sample	100	96
LCS 880-4641/1-A	Lab Control Sample	98	92
LCSD 880-4634/2-A	Lab Control Sample Dup	101	96
LCSD 880-4641/2-A	Lab Control Sample Dup	97	90
MB 880-4634/5-A	Method Blank	110	94

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)
880-3457-1	CS-1 (1.5')	101	107
880-3457-2	CS-2 (1.5')	93	102
880-3457-2	CS-2 (1.5')	93	99
880-3457-3	SW-1	106	112
880-3457-4	SW-2	105	113
880-3457-5	SW-3	102	106
880-3457-5	SW-3	97	101
880-3457-6	SW-4	101	110
LCS 880-4640/2-A	Lab Control Sample	103	100
LCS 880-4768/2-A	Lab Control Sample	109	102
LCSD 880-4640/3-A	Lab Control Sample Dup	98	97
LCSD 880-4768/3-A	Lab Control Sample Dup	87	91
MB 880-4640/1-A	Method Blank	101	113
MB 880-4768/1-A	Method Blank	87	101

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4634/5-A
Matrix: Solid
Analysis Batch: 4613

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 16:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 16:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 16:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/25/21 12:16	06/25/21 16:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/25/21 12:16	06/25/21 16:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/25/21 12:16	06/25/21 16:13	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/25/21 12:16	06/25/21 16:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/25/21 12:16*	*06/25/21 16:13*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/25/21 12:16*	*06/25/21 16:13*	*1*

Lab Sample ID: LCS 880-4634/1-A
Matrix: Solid
Analysis Batch: 4613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09946		mg/Kg		99	70 - 130
Toluene	0.100	0.1138		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1187		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2442		mg/Kg		122	70 - 130
o-Xylene	0.100	0.1192		mg/Kg		119	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-4634/2-A
Matrix: Solid
Analysis Batch: 4613

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4634

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1004		mg/Kg		100	70 - 130	1	35
Toluene	0.100	0.1134		mg/Kg		113	70 - 130	0	35
Ethylbenzene	0.100	0.1181		mg/Kg		118	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2428		mg/Kg		121	70 - 130	1	35
o-Xylene	0.100	0.1197		mg/Kg		120	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCS 880-4641/1-A
Matrix: Solid
Analysis Batch: 4613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4641

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09146		mg/Kg		91	70 - 130

QC Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-4641/1-A
Matrix: Solid
Analysis Batch: 4613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4641

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toluene			0.100	0.1050		mg/Kg		105	70 - 130		
Ethylbenzene			0.100	0.1078		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2235		mg/Kg		112	70 - 130		
o-Xylene			0.100	0.1113		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-4641/2-A
Matrix: Solid
Analysis Batch: 4613

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4641

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09607		mg/Kg		96	70 - 130	5	35
Toluene			0.100	0.1112		mg/Kg		111	70 - 130	6	35
Ethylbenzene			0.100	0.1135		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2340		mg/Kg		117	70 - 130	5	35
o-Xylene			0.100	0.1144		mg/Kg		114	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

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

Lab Sample ID: MB 880-4640/1-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4640

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		06/25/21 14:16	06/25/21 21:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/25/21 21:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/25/21 21:17	1
Total TPH	<50.0	U	50.0		mg/Kg		06/25/21 14:16	06/25/21 21:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/25/21 14:16*	*06/25/21 21:17*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/25/21 14:16*	*06/25/21 21:17*	*1*

Lab Sample ID: LCS 880-4640/2-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4640

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	991.5		mg/Kg		99	70 - 130		

QC Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-4640/2-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4640

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28)			1000	1068		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: LCSD 880-4640/3-A
Matrix: Solid
Analysis Batch: 4609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	908.3		mg/Kg		91	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1034		mg/Kg		103	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: MB 880-4768/1-A
Matrix: Solid
Analysis Batch: 4775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4768

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		06/30/21 08:44	06/30/21 12:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/30/21 08:44	06/30/21 12:57	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/30/21 08:44	06/30/21 12:57	1
Total TPH	<50.0	U	50.0		mg/Kg		06/30/21 08:44	06/30/21 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*06/30/21 08:44*	*06/30/21 12:57*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/30/21 08:44*	*06/30/21 12:57*	*1*

Lab Sample ID: LCS 880-4768/2-A
Matrix: Solid
Analysis Batch: 4775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4768

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	961.6		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1005		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*

QC Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-4768/2-A
Matrix: Solid
Analysis Batch: 4775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4768

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: LCSD 880-4768/3-A
Matrix: Solid
Analysis Batch: 4775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	741.6	*1	mg/Kg		74	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	1000	859.3		mg/Kg		86	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4643/1-A
Matrix: Solid
Analysis Batch: 4663

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			06/28/21 13:18	1

Lab Sample ID: LCS 880-4643/2-A
Matrix: Solid
Analysis Batch: 4663

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-4643/3-A
Matrix: Solid
Analysis Batch: 4663

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	253.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-3457-1 MS
Matrix: Solid
Analysis Batch: 4663

Client Sample ID: CS-1 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	277		250	530.6		mg/Kg		102	90 - 110

QC Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-3457-1 MSD
Matrix: Solid
Analysis Batch: 4663

Client Sample ID: CS-1 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	277		250	524.7		mg/Kg		99	90 - 110	1	20

QC Association Summary

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 4613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3457-1	CS-1 (1.5')	Total/NA	Solid	8021B	4634
880-3457-2	CS-2 (1.5')	Total/NA	Solid	8021B	4634
880-3457-3	SW-1	Total/NA	Solid	8021B	4634
880-3457-4	SW-2	Total/NA	Solid	8021B	4634
880-3457-5	SW-3	Total/NA	Solid	8021B	4634
880-3457-6	SW-4	Total/NA	Solid	8021B	4634
MB 880-4634/5-A	Method Blank	Total/NA	Solid	8021B	4634
LCS 880-4634/1-A	Lab Control Sample	Total/NA	Solid	8021B	4634
LCS 880-4641/1-A	Lab Control Sample	Total/NA	Solid	8021B	4641
LCSD 880-4634/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4634
LCSD 880-4641/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4641

Prep Batch: 4634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3457-1	CS-1 (1.5')	Total/NA	Solid	5035	
880-3457-2	CS-2 (1.5')	Total/NA	Solid	5035	
880-3457-3	SW-1	Total/NA	Solid	5035	
880-3457-4	SW-2	Total/NA	Solid	5035	
880-3457-5	SW-3	Total/NA	Solid	5035	
880-3457-6	SW-4	Total/NA	Solid	5035	
MB 880-4634/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4634/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4634/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 4641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-4641/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4641/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 4609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3457-1	CS-1 (1.5')	Total/NA	Solid	8015B NM	4640
880-3457-2	CS-2 (1.5')	Total/NA	Solid	8015B NM	4640
880-3457-3	SW-1	Total/NA	Solid	8015B NM	4640
880-3457-4	SW-2	Total/NA	Solid	8015B NM	4640
880-3457-5	SW-3	Total/NA	Solid	8015B NM	4640
880-3457-6	SW-4	Total/NA	Solid	8015B NM	4640
MB 880-4640/1-A	Method Blank	Total/NA	Solid	8015B NM	4640
LCS 880-4640/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4640
LCSD 880-4640/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4640

Prep Batch: 4640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3457-1	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-3457-2	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-3457-3	SW-1	Total/NA	Solid	8015NM Prep	
880-3457-4	SW-2	Total/NA	Solid	8015NM Prep	
880-3457-5	SW-3	Total/NA	Solid	8015NM Prep	
880-3457-6	SW-4	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Prep Batch: 4640 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4640/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4640/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4640/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 4768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3457-2	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-3457-5	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-4768/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4768/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4768/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3457-2	CS-2 (1.5')	Total/NA	Solid	8015B NM	4768
880-3457-5	SW-3	Total/NA	Solid	8015B NM	4768
MB 880-4768/1-A	Method Blank	Total/NA	Solid	8015B NM	4768
LCS 880-4768/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4768
LCSD 880-4768/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4768

HPLC/IC

Leach Batch: 4643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3457-1	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-3457-2	CS-2 (1.5')	Soluble	Solid	DI Leach	
880-3457-3	SW-1	Soluble	Solid	DI Leach	
880-3457-4	SW-2	Soluble	Solid	DI Leach	
880-3457-5	SW-3	Soluble	Solid	DI Leach	
880-3457-6	SW-4	Soluble	Solid	DI Leach	
MB 880-4643/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4643/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4643/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-3457-1 MS	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-3457-1 MSD	CS-1 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 4663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3457-1	CS-1 (1.5')	Soluble	Solid	300.0	4643
880-3457-2	CS-2 (1.5')	Soluble	Solid	300.0	4643
880-3457-3	SW-1	Soluble	Solid	300.0	4643
880-3457-4	SW-2	Soluble	Solid	300.0	4643
880-3457-5	SW-3	Soluble	Solid	300.0	4643
880-3457-6	SW-4	Soluble	Solid	300.0	4643
MB 880-4643/1-A	Method Blank	Soluble	Solid	300.0	4643
LCS 880-4643/2-A	Lab Control Sample	Soluble	Solid	300.0	4643
LCSD 880-4643/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4643
880-3457-1 MS	CS-1 (1.5')	Soluble	Solid	300.0	4643
880-3457-1 MSD	CS-1 (1.5')	Soluble	Solid	300.0	4643

Lab Chronicle

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

Client Sample ID: CS-1 (1.5')
Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	4634	06/25/21 12:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4613	06/25/21 22:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4640	06/25/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/26/21 01:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	4643	06/25/21 14:41	CH	XEN MID
Soluble	Analysis	300.0		1			4663	06/28/21 13:37	CH	XEN MID

Client Sample ID: CS-2 (1.5')
Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	4634	06/25/21 12:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4613	06/25/21 22:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4640	06/25/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/26/21 01:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4775	06/30/21 15:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4643	06/25/21 14:41	CH	XEN MID
Soluble	Analysis	300.0		1			4663	06/28/21 13:53	CH	XEN MID

Client Sample ID: SW-1
Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	4634	06/25/21 12:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4613	06/25/21 22:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4640	06/25/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/26/21 02:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	4643	06/25/21 14:41	CH	XEN MID
Soluble	Analysis	300.0		1			4663	06/28/21 13:59	CH	XEN MID

Client Sample ID: SW-2
Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	4634	06/25/21 12:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4613	06/25/21 23:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4640	06/25/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/26/21 02:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	4643	06/25/21 14:41	CH	XEN MID
Soluble	Analysis	300.0		1			4663	06/28/21 14:04	CH	XEN MID

Lab Chronicle

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

Client Sample ID: SW-3

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-5
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			5.03 g	5 mL	4634	06/25/21 12:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4613	06/25/21 23:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4640	06/25/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/26/21 03:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4775	06/30/21 15:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	4643	06/25/21 14:41	CH	XEN MID
Soluble	Analysis	300.0		1			4663	06/28/21 14:10	CH	XEN MID

Client Sample ID: SW-4

Date Collected: 06/24/21 00:00
Date Received: 06/25/21 11:10

Lab Sample ID: 880-3457-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	4634	06/25/21 12:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4613	06/25/21 23:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	4640	06/25/21 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4609	06/26/21 03:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	4643	06/25/21 14:41	CH	XEN MID
Soluble	Analysis	300.0		1			4663	06/28/21 14:26	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: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea 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	06-30-21

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: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea 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

Sample Summary

Client: NT Global
Project/Site: Minis 2 Fed Com (09.08.20)

Job ID: 880-3457-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-3457-1	CS-1 (1.5')	Solid	06/24/21 00:00	06/25/21 11:10	
880-3457-2	CS-2 (1.5')	Solid	06/24/21 00:00	06/25/21 11:10	
880-3457-3	SW-1	Solid	06/24/21 00:00	06/25/21 11:10	
880-3457-4	SW-2	Solid	06/24/21 00:00	06/25/21 11:10	
880-3457-5	SW-3	Solid	06/24/21 00:00	06/25/21 11:10	
880-3457-6	SW-4	Solid	06/24/21 00:00	06/25/21 11:10	

Chain of Custody

880-3457 Chain of Custody

No: 880-3457

7/1/2021

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 London Rd
City, State ZIP	Midland, TX 79706	City, State ZIP	Loving, NM 88256
Phone.	432-813-0263	Email	Jacqui Harris@conocophillips com

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ uperfund ☐

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other

Project Name.	Minis 2 Fed Com (09 08 20)	Turn Around	
Project Number	214326	☐ Routine ☑ Rush	
Project Location	Lea Co, NM	Due Date	48 Hrs
Sampler's Name	CM	TAT starts the day received by the lab if received by 4 30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice	(Yes) No
Received Intact:	(Yes) No	Thermometer ID	IR8
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	+0.5
Sample Custody Seals	Yes No (N/A)	Temperature Reading	4.0
Total Containers.		Corrected Temperature.	4.5

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	HOLD	Sample Comments
CS-1 (1 5')	6/24/2021		X		C	1	X	X	X		
CS-2 (1 5')	6/24/2021		X		C	1	X	X	X		
SW-1	6/24/2021		X		C	1	X	X	X		
SW-2	6/24/2021		X		C	1	X	X	X		
SW-3	6/24/2021		X		C	1	X	X	X		
SW-4	6/24/2021		X		C	1	X	X	X		

Additoinal Comments:

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
Courtney	Kelly M	6/25/21 1110	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020 1

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-3457-1
SDG Number: Lea Co, NM

Login Number: 3457
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 date 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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 880-3627-1
Laboratory Sample Delivery Group: Lea County, New Mexico
Client Project/Site: Minis 2 Fed Com 1 (09.08.20)

For:
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Mike Carmona

JKramer

Authorized for release by:
7/2/2021 9:03:23 AM

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

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

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

Client: NT Global
Project/Site: Minis 2 Fed Com 1 (09.08.20)

Laboratory Job ID: 880-3627-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: NT Global
Project/Site: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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.
¤	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: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

Job ID: 880-3627-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-3627-1

Receipt
The samples were received on 7/1/2021 11:08 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 4.9°C

GC VOA
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: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

Client Sample ID: CS-2 (1.75')

Lab Sample ID: 880-3627-1
Matrix: Solid
Date Collected: 06/30/21 00:00
Date Received: 07/01/21 11:08

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		07/01/21 11:30	07/01/21 19:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/21 11:30	07/01/21 19:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/21 11:30	07/01/21 19:40	1
m-Xylene & p-Xylene	**0.00703**		0.00401		mg/Kg		07/01/21 11:30	07/01/21 19:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/21 11:30	07/01/21 19:40	1
Xylenes, Total	**0.00703**		0.00401		mg/Kg		07/01/21 11:30	07/01/21 19:40	1
Total BTEX	**0.00703**		0.00401		mg/Kg		07/01/21 11:30	07/01/21 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/01/21 11:30*	*07/01/21 19:40*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/01/21 11:30*	*07/01/21 19:40*	*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	<50.0	U	50.0		mg/Kg		07/01/21 11:15	07/01/21 14:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/01/21 11:15	07/01/21 14:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/01/21 11:15	07/01/21 14:13	1
Total TPH	<50.0	U	50.0		mg/Kg		07/01/21 11:15	07/01/21 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/01/21 11:15*	*07/01/21 14:13*	*1*
o-Terphenyl	*101*		*70 - 130*	*07/01/21 11:15*	*07/01/21 14:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.53**		4.99		mg/Kg			07/01/21 18:50	1

Client Sample ID: SW-3

Lab Sample ID: 880-3627-2
Matrix: Solid
Date Collected: 06/30/21 00:00
Date Received: 07/01/21 11:08

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		07/01/21 11:30	07/01/21 20:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/21 11:30	07/01/21 20:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/21 11:30	07/01/21 20:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/01/21 11:30	07/01/21 20:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/21 11:30	07/01/21 20:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/01/21 11:30	07/01/21 20:06	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/01/21 11:30	07/01/21 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/01/21 11:30*	*07/01/21 20:06*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/01/21 11:30*	*07/01/21 20:06*	*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		07/01/21 11:15	07/01/21 14:34	1

Client Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3
Date Collected: 06/30/21 00:00
Date Received: 07/01/21 11:08

Lab Sample ID: 880-3627-2
Matrix: Solid

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		07/01/21 11:15	07/01/21 14:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/01/21 11:15	07/01/21 14:34	1
Total TPH	<49.9	U	49.9		mg/Kg		07/01/21 11:15	07/01/21 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/01/21 11:15*	*07/01/21 14:34*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/01/21 11:15*	*07/01/21 14:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.81**		5.02		mg/Kg			07/01/21 18:56	1

Surrogate Summary

Client: NT Global
Project/Site: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-3627-1	CS-2 (1.75')	90	97
880-3627-2	SW-3	106	100
LCS 880-4801/1-A	Lab Control Sample	86	100
LCSD 880-4801/2-A	Lab Control Sample Dup	86	100
MB 880-4801/5-A	Method Blank	61 S1-	82

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-3627-1	CS-2 (1.75')	86	101
880-3627-2	SW-3	86	103
LCS 880-4791/2-A	Lab Control Sample	83	93
LCSD 880-4791/3-A	Lab Control Sample Dup	88	95
MB 880-4791/1-A	Method Blank	88	106

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4801/5-A
Matrix: Solid
Analysis Batch: 4802

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/21 08:53	07/01/21 12:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/21 08:53	07/01/21 12:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/21 08:53	07/01/21 12:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/01/21 08:53	07/01/21 12:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/21 08:53	07/01/21 12:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/01/21 08:53	07/01/21 12:09	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/01/21 08:53	07/01/21 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*07/01/21 08:53*	*07/01/21 12:09*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*07/01/21 08:53*	*07/01/21 12:09*	*1*

Lab Sample ID: LCS 880-4801/1-A
Matrix: Solid
Analysis Batch: 4802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4801

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08545		mg/Kg		85	70 - 130		
Toluene			0.100	0.08157		mg/Kg		82	70 - 130		
Ethylbenzene			0.100	0.07715		mg/Kg		77	70 - 130		
m-Xylene & p-Xylene			0.200	0.1613		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.08423		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-4801/2-A
Matrix: Solid
Analysis Batch: 4802

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4801

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08676		mg/Kg		87	70 - 130	2	35
Toluene			0.100	0.08413		mg/Kg		84	70 - 130	3	35
Ethylbenzene			0.100	0.07907		mg/Kg		79	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1669		mg/Kg		83	70 - 130	3	35
o-Xylene			0.100	0.08718		mg/Kg		87	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

QC Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-4791/1-A
Matrix: Solid
Analysis Batch: 4809

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4791

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		06/30/21 15:30	07/01/21 11:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/30/21 15:30	07/01/21 11:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/30/21 15:30	07/01/21 11:48	1
Total TPH	<50.0	U	50.0		mg/Kg		06/30/21 15:30	07/01/21 11:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/30/21 15:30*	*07/01/21 11:48*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/30/21 15:30*	*07/01/21 11:48*	*1*

Lab Sample ID: LCS 880-4791/2-A
Matrix: Solid
Analysis Batch: 4809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4791

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	811.8		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	917.0		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: LCSD 880-4791/3-A
Matrix: Solid
Analysis Batch: 4809

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 4791

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	942.8		mg/Kg		94	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	943.7		mg/Kg		94	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4821/1-A
Matrix: Solid
Analysis Batch: 4833

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			07/01/21 16:33	1

QC Sample Results

Client: NT Global
Project/Site: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4821/2-A
Matrix: Solid
Analysis Batch: 4833

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	244.6		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-4821/3-A
Matrix: Solid
Analysis Batch: 4833

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	244.0		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: NT Global
Project/Site: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 4801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3627-1	CS-2 (1.75')	Total/NA	Solid	5035	
880-3627-2	SW-3	Total/NA	Solid	5035	
MB 880-4801/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4801/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4801/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 4802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3627-1	CS-2 (1.75')	Total/NA	Solid	8021B	4801
880-3627-2	SW-3	Total/NA	Solid	8021B	4801
MB 880-4801/5-A	Method Blank	Total/NA	Solid	8021B	4801
LCS 880-4801/1-A	Lab Control Sample	Total/NA	Solid	8021B	4801
LCSD 880-4801/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4801

GC Semi VOA

Prep Batch: 4791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3627-1	CS-2 (1.75')	Total/NA	Solid	8015NM Prep	
880-3627-2	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-4791/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4791/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4791/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3627-1	CS-2 (1.75')	Total/NA	Solid	8015B NM	4791
880-3627-2	SW-3	Total/NA	Solid	8015B NM	4791
MB 880-4791/1-A	Method Blank	Total/NA	Solid	8015B NM	4791
LCS 880-4791/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4791
LCSD 880-4791/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4791

HPLC/IC

Leach Batch: 4821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3627-1	CS-2 (1.75')	Soluble	Solid	DI Leach	
880-3627-2	SW-3	Soluble	Solid	DI Leach	
MB 880-4821/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4821/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4821/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-3627-1	CS-2 (1.75')	Soluble	Solid	300.0	4821
880-3627-2	SW-3	Soluble	Solid	300.0	4821
MB 880-4821/1-A	Method Blank	Soluble	Solid	300.0	4821
LCS 880-4821/2-A	Lab Control Sample	Soluble	Solid	300.0	4821
LCSD 880-4821/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4821

Lab Chronicle

Client: NT Global

Project/Site: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1

SDG: Lea County, New Mexico

Client Sample ID: CS-2 (1.75')

Lab Sample ID: 880-3627-1

Date Collected: 06/30/21 00:00

Matrix: Solid

Date Received: 07/01/21 11:08

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	4801	07/01/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4802	07/01/21 19:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	4791	07/01/21 11:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4809	07/01/21 14:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	4821	07/01/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1			4833	07/01/21 18:50	CH	XEN MID

Client Sample ID: SW-3

Lab Sample ID: 880-3627-2

Date Collected: 06/30/21 00:00

Matrix: Solid

Date Received: 07/01/21 11:08

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	4801	07/01/21 11:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	4802	07/01/21 20:06	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	4791	07/01/21 11:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4809	07/01/21 14:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	4821	07/01/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	4833	07/01/21 18:56	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: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

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: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

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

Sample Summary

Client: NT Global
Project/Site: Minis 2 Fed Com 1 (09.08.20)

Job ID: 880-3627-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-3627-1	CS-2 (1.75')	Solid	06/30/21 00:00	07/01/21 11:08	
880-3627-2	SW-3	Solid	06/30/21 00:00	07/01/21 11:08	

NTG ENVIRONMENTAL

Chain of Cu

880-3627 Chain of Custody

rk Order No: 880-3627

7/2/2021

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 London Rd
City, State ZIP	Midland, TX 79706	City, State ZIP	Loving, NM 88256
Phone	432-813-0263	Email	Jacqui Harris@conocophillips com

Work Order Comments

Program: UST/PST ☐ PRP ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other

Project Name.	Minis 2 Fed Com 1 (09 08 20)	Turn Around	
Project Number	214346	☐ Routine ☑ Rush	
Project Location	Lea County, New Mexico	Due Date	24hr
Sampler's Name.	CM	TAT starts the day received by the lab if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes No	Wet Ice.	Yes No
Received Intact:	Yes No	Thermometer ID	TR8
Cooler Custody Seals	Yes No N/A	Correction Factor	+0.5
Sample Custody Seals	Yes No N/A	Temperature Reading	4.7
Total Containers	2	Corrected Temperature:	4.9

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2S0_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chlorides 300 0	HOLD	Sample Comments
CS-2 (1 75')	6/30/2021	-	X		Comp	1		X	X	X		402
SW-3	6/30/2021	-	X		Comp	1		X	X	X		

Additoinal Comments:

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		7/1 1105	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-3627-1
SDG Number: Lea County, New Mexico

Login Number: 3627
List Number: 1
Creator: Teel, Brianna

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 times on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

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

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 35556
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/22/2021