

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	nAPP2135151141
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Catena Resources Operating, LLC	OGRID 328449
Contact Name Cato Clark	Contact Telephone 346-200-7894
Contact email clark@catenares.com	Incident # (assigned by OCD) nAPP2135151141
Contact mailing address 1001 Fannin St., Suite 2200, Houston, TX 77002	

Location of Release Source

Latitude 32.726604 Longitude -103.511719
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Ironhouse 24 State Com 2	Site Type Wellhead
Date Release Discovered 11/15/2019	API# (if applicable) 30-025-41595

Unit Letter	Section	Township	Range	County
O	24	18S	34E	Lea

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 6.5	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 8.5	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Failure of the packing at the wellhead causing overspray onto the pad.

Form C-141

State of New Mexico
Oil Conservation Division


Page 2

Incident ID	nAPP2135151141
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Cato Clark</u>	Title: <u>Vice President Land</u>
Signature: <u></u>	Date: <u>1/10/22</u>
email: <u>clark@catenares.com</u>	Telephone: <u>346-200-7894</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Form C-141

State of New Mexico
Oil Conservation Division

Page 3

Incident ID	nAPP2135151141
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?	117 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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


Form C-141

State of New Mexico
Oil Conservation Division

Page 4

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District RP	
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Printed Name: Cato ClarkTitle: Vice President LandSignature: Date: 6-21-22email: clark@catenares.comTelephone: 346-200-7594**OCD Only**

Received by: _____

Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	nAPP2135151141
District RP	
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Remediation Plan

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

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

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

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

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

Printed Name: Cato Clark

Title: Vice President Land

Signature: 

Date: 6-21-22

email: clark@catenares.com

Telephone: 346-200-7894

OCD Only

Received by: _____ Date: _____

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
Signature: 

Date: 07/05/2022



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

March 15, 2022

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

Re: **Work Plan**
Ironhouse 24State Com #2
Catena Resources, LLC
Site Location: Unit O, S24, T18S, R34E
(Lat 32.726596°, Long -103.5117722°)
Lea County, New Mexico
Incident # nAPP2135151141

Dear Mr. Bratcher:

On behalf of Catena Resources, LLC (Catena), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment activities related to a release at the Ironhouse 24 State Com #2 location (Site) on November 15, 2019. The Site is located in Lea County approximately 22.5 miles west of Hobbs, New Mexico (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 November 15, 2019 and was a result of equipment failure at the wellhead. The equipment failure resulted in the release of approximately 6 barrels (bbls) of crude oil and 8 bbls of produced water of which 0 bbls were recovered. The release area is shown on Figure 3. A copy of the initial C-141 form is attached.

Site Characterization

The site is located within a low karst area. Based on a review of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) databases, 1 known water source is located within a ½ mile radius of the Site; however, the well was not drilled in the past 25 years. The nearest identified well was drilled in 1974 and is located approximately 0.32 miles southeast of the Site. The well has a reported depth to groundwater of 117 feet below ground surface (ft bgs). A copy of the site characterization information and associated *Point of Diversion Summary* report for the nearest water well is attached.

Regulatory Criteria

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria are applicable at the Site.

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- TPH (GRO + DRO + MRO): 100 mg/kg
- Chloride: 600 mg/kg

**Creating a Better Environment
For Oil & Gas Operations**

Mr. Mike Bratcher
March 15, 2022
Page 2 of 3

Site Assessment

Site assessment activities were conducted over three events to fully characterize and delineate the extent of impacts resulting from the release. Soil samples were collected from the Site using various sample collection methodologies and submitted to an accredited laboratory for chemical analysis. Soil samples were field screened for volatile organic compounds (VOCs) and chloride.

All soil samples were analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (EPA method 300.0). The combined analytical results from each sampling event are provided in Table 1, attached. Soil sample locations are shown on Figure 3. Laboratory reports containing analytical methods and chain-of-custody documents are attached. A photographic log documenting Site conditions at the time of the initial assessment is attached. Complete details of each sampling event are further described below.

Initial Assessment

On October 21, 2021, NTGE conducted site assessment activities to assess the horizontal and vertical extent of impacts at the Site. A total of two sample points (S-1 and S-2) were installed within the release area to characterize the impacts. Additionally, three horizontal delineation sample points (H-1 - H-3) were installed to define the extent of impacts. All soil samples were collected in 0.5 ft depth intervals to depths ranging from 0.5 – 1.5 ft bgs with a geotechnical handauger. The handauger was decontaminated with Alconox and deionized water between soil borings to prevent cross-contamination.

Analytical results from the initial assessment activities identified elevated TPH concentrations across the release area (S-1 and S-2). Additionally, TPH concentrations in soil samples H-1 – H-3 were also above the regulatory limits. The horizontal and vertical extent of impacts was not defined and further assessment was required.

Follow-On Sampling - Trenches

On December 8, 2021, NTGE conducted follow-on sampling activities to vertically delineate soil impacts in the areas of S-1 and S-2 and horizontally delineate soil impacts in the areas of H-1 – H-3. In the areas of S-1 and S-2, trenches were installed to depths ranging from 2 – 3 ft bgs with a backhoe and soil samples were collected in 1 ft depth intervals. Samples were collected directly from the center of the backhoe bucket to prevent cross contamination. Backhoe refusal due to the presence of dense bedrock was encountered at the total depth of each trench.

The additional soil samples collected from the areas of H-1 – H-3 to horizontally delineate the soil impacts in these areas were collected with a geotechnical handauger. Soil samples were collected from the 0 – 0.5 ft bgs depth interval. The handauger was decontaminated with Alconox and deionized water between soil borings to prevent cross-contamination.

Analytical results from the trench sampling activities indicated that the vertical delineation of impacts was not achieved in the areas of S-2/T-2. The impacted soil extended to the total depths of T-2. Further assessment was required to assess the vertical extent of impacts in this area.

Analytical results from the additional horizontal delineation sampling in the areas of H-1 - H-3 indicate the horizontal extent of impacts were defined. No further horizontal delineation sampling was required.

Mr. Mike Bratcher
March 15, 2022
Page 3 of 3

Follow-On Sampling – Soil Boring Installations

On February 8, 2022, NTGE conducted additional follow-on sampling activities to vertically delineate soil impacts in the release area. A total of one soil borings (BH-2) was installed using a geoprobe drilling unit using hollow stem augers. The soil boring was advanced to a depth of 4 ft bgs and soil samples were collected in one foot depth intervals.

Analytical results from the soil boring installations indicated that vertical delineation was achieved in BH-2. Impacts at the Site are vertically delineated.

Proposed Work Plan

Based on the analytical results, Catena proposes the excavation and disposal of impacted soils above the regulatory limits. The proposed excavation depths may not be reached due to wall cave-ins and/or safety concerns for onsite personnel. Additionally, the excavation of impacted soil around oil and gas equipment, structures, and/or lines may not be feasible or practicable due to safety concerns for onsite personnel. As such, impacted soils will be excavated to the maximum extent practicable.

The proposed excavation areas and depths are detailed below and illustrated on Figure 4.

- The areas of S-1/T-1 will be excavated to a depth of 2 ft bgs and backfilled with clean material to grade.
- The areas of S-2/T-2 will be excavated to a depth of 4 ft bgs and backfilled with clean material to grade.

Soil will be field screened during excavation and final excavation depths may vary depending on field screening activities. Composite confirmation excavation base and sidewalls samples will be collected every 200 square feet and analyzed for TPH by EPA method 8015 modified, BTEX by EPA Method 8021B, and Chloride by EPA method 300.0 to confirm excavation activities are successful in addressing identified impacts. Excavated soil will be hauled to a permitted disposal facility for final disposition.

Closing

The remediation will be implemented within 90 days of work plan approval. It is estimated that approximately 259 cubic yards (yd³) of soil will be excavated and hauled to disposal. Upon completion, a final report detailing the remedial actions will be submitted to the NMOCD. If you have any questions regarding this report or need any additional information, please contact us at 432.685.3868.

Sincerely,
NTG Environmental




Gordon Banks, REM, CSEM, CESCO
Project Manager

Attachments: Table
Figures
Photographic Log
Site Characterization Information
C-141
Laboratory Report and Chain-of-Custody Documents

Table

Table 1
Catena Resources, LLC
Ironhouse 24 State Com #2
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						
Vertical Delineation Samples												
S-1	10/21/2021	0-0.5'	<249	4,130	908	5,040	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	272
		1-1.5'	<250	4,920	1,030	5,950	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	204
T-1	12/8/2021	0-1'	<20.0	93.0	174	267	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	190
		1'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	222
		2'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	149
S-2	10/21/2021	0-0.5'	<49.8	448	128	576	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	168
		1-1.5'	<49.9	2,310	456	2,770	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	305
T-2	12/8/2021	0-1'	<20.0	1,280	1,350	2,630	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	1,570
		1'	<20.0	2,700	1,750	4,450	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	377
		2'	<20.0	354	272	626	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	491
		3'	<20.0	159	117	276	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	255
BH-2	2/8/2021	(0-1')	<50.0	<50.0	<50.0	<50.0	0.210	0.0436	<0.0398	<0.0795	0.254	303
		(1'-2')	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	372
		(2'-3')	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	198
		(3'-4')	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	21.7
Horizontal Delineation samples												
H-1	10/21/2021	0-0.5'	<49.9	1,040	512	1,550	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	69.6
H-1 (b)	12/8/2021	0-0.5'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	218
H-2	10/21/2021	0-0.5'	<49.9	2,140	382	2,520	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	293
H-2 (b)	12/8/2021	0-0.5'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	165
H-3	10/21/2021	0-0.5'	<49.8	470	146	616	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	83.5
H-3 (b)	12/8/2021	0-0.5'	<20.0	<25.0	<50.0	<50.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	214
Regulatory Limits			-	-	-	100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

 - exceeds regulatory limit

mg/kg - milligram per kilogram

GRO - gasoline range organics

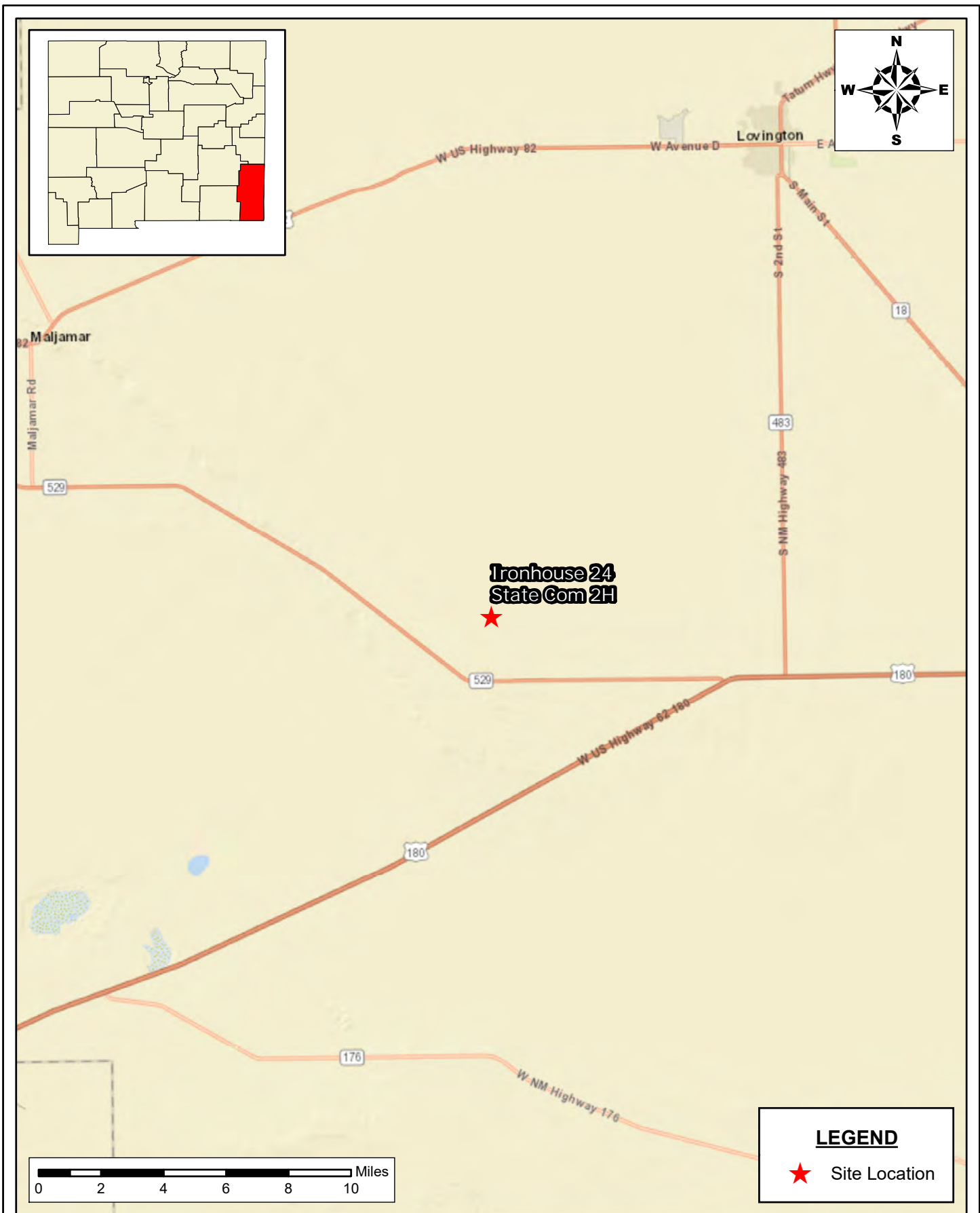
DRO - diesel range organics

ORO - oil range organics

A - Table 1 - 19.15.29 NMAC

Figures

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SITE LOCATION MAP
CATENA RESOURCES, LLC
 IRONHOUSE 24 STATE COM 2H
 LEA COUNTY, NEW MEXICO
 32.726596°, -103.5117722°

SCALE: As Shown

Date: 12/8/2021

PROJECT #: 214799



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

NOTES:

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

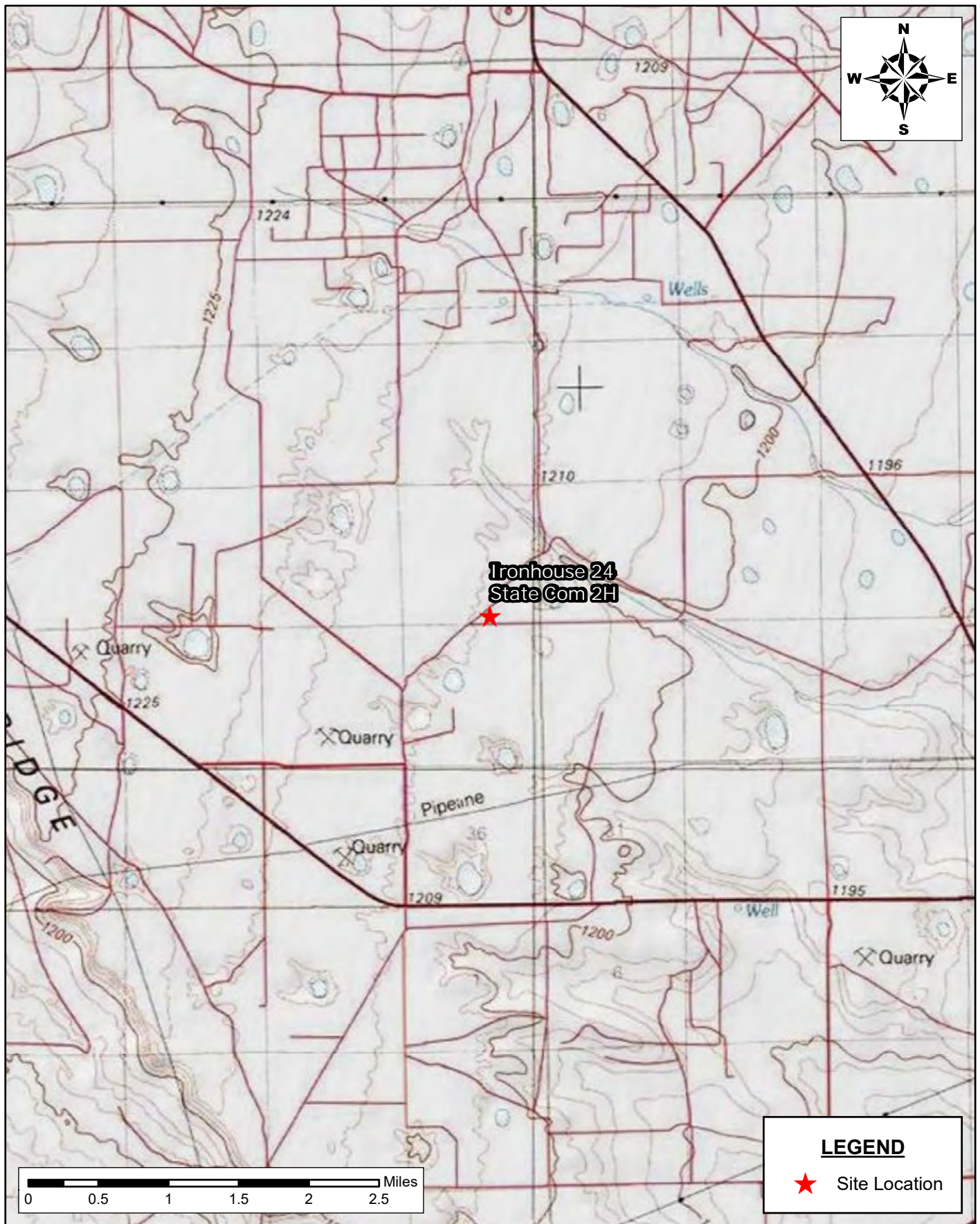
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FIGURE 1

SHEET NUMBER:

1 of 1

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AREA MAP
CATENA RESOURCES, LLC
 IRONHOUSE 24 STATE COM 2H
 LEA COUNTY, NEW MEXICO
 32.726596°, -103.5117722°

SCALE: As Shown

Date: 12/8/2021

PROJECT #: 214799



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:

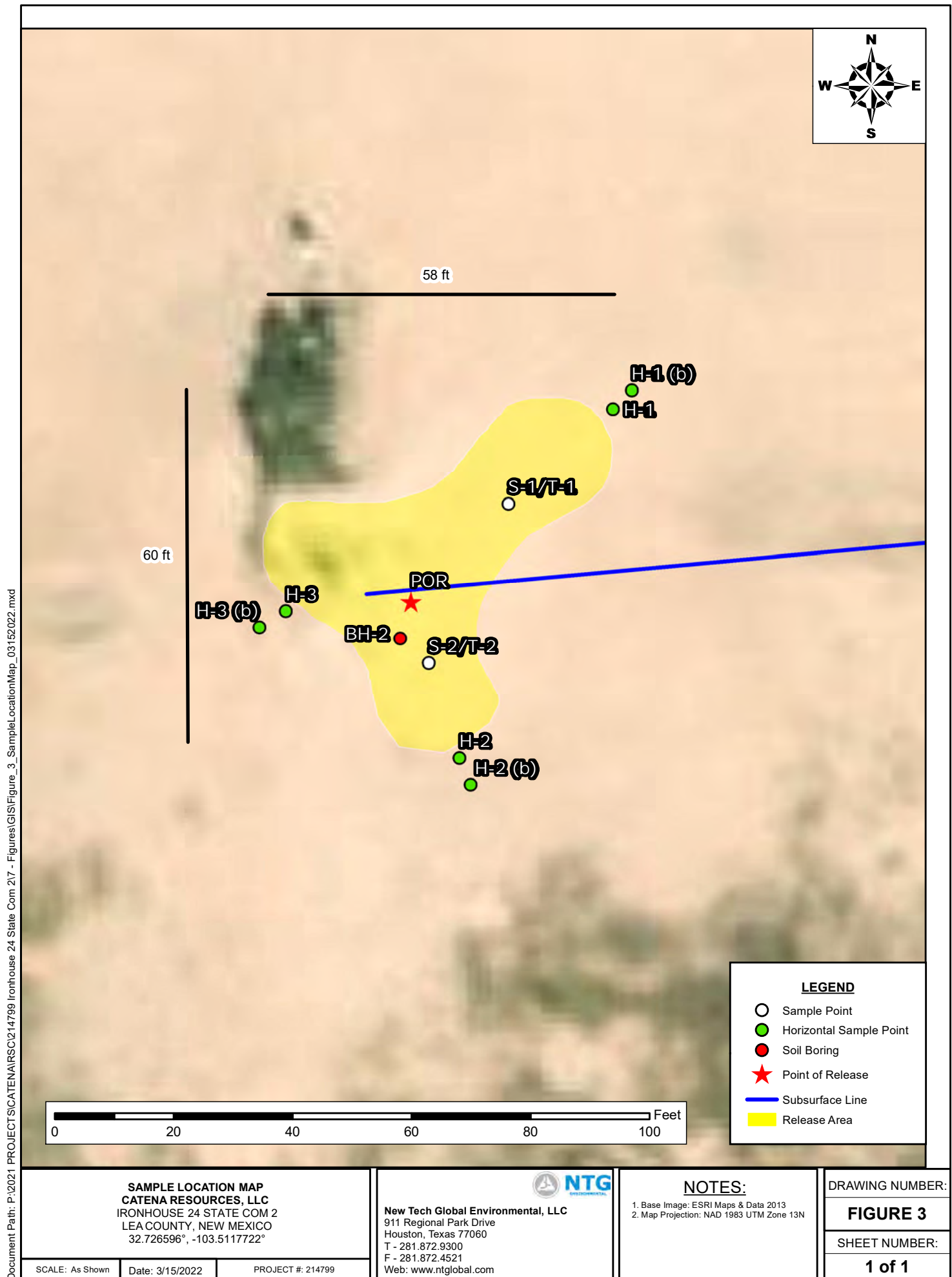
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2. Map Projection: NAD 1983 UTM Zone 13N

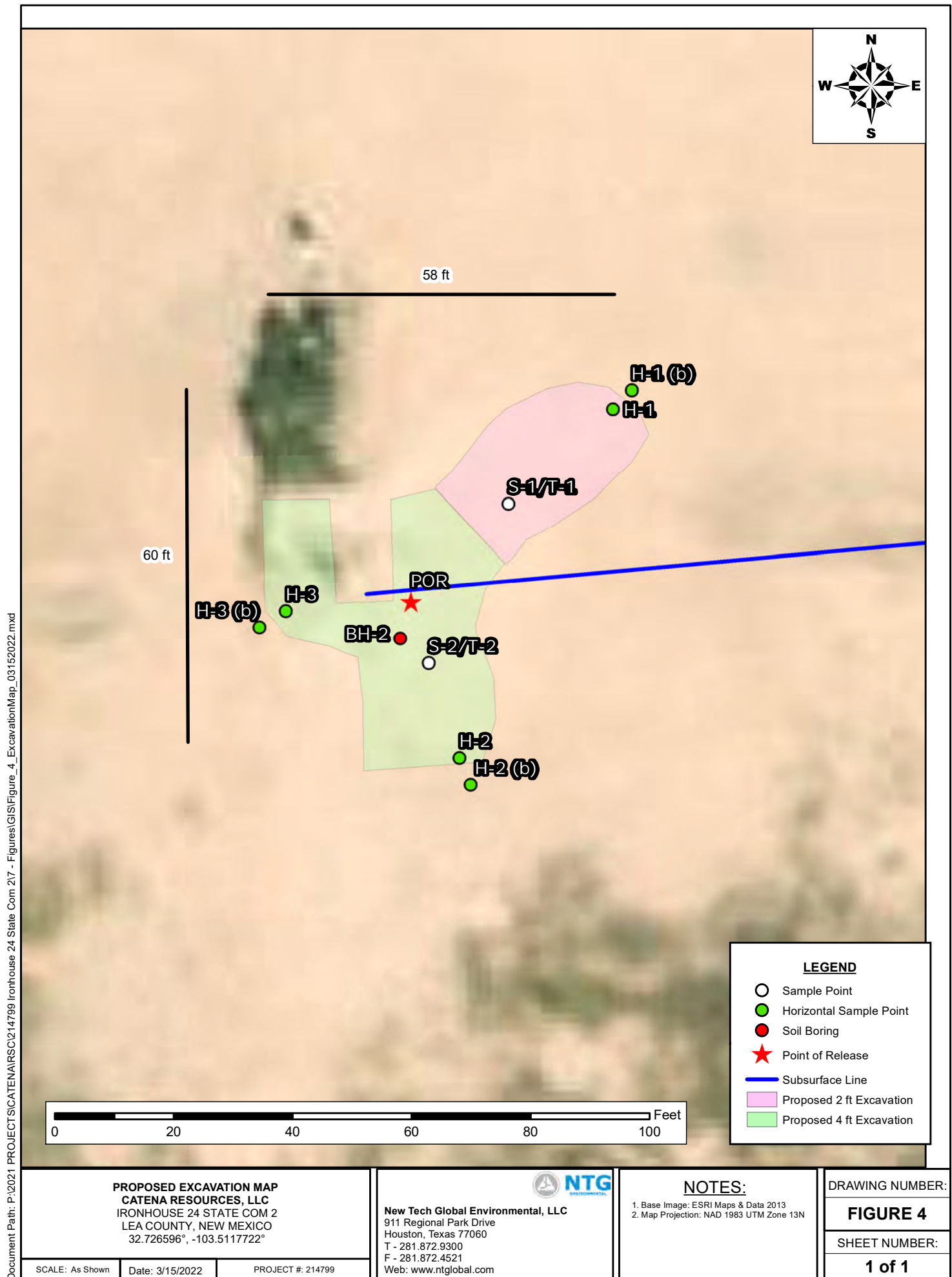
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FIGURE 2

SHEET NUMBER:

1 of 1





Photographic Log

PHOTOGRAPHIC LOG

Catena Resources

Photograph No. 1

Facility: Ironhouse 24 State Com 2H

County: Lea County, New Mexico

Description:

View looking west of sample points H-1, H-2, and S-1.



Photograph No. 2

Facility: Ironhouse 24 State Com 2H

County: Lea County, New Mexico

Description:

View looking northwest of sample points S-1, S-2, H-2, and H-1.



Photograph No. 3

Facility: Ironhouse 24 State Com 2H

County: Lea County, New Mexico

Description:

View looking north of sample points H-1, H-2, H-3, S-1, and S-3.



PHOTOGRAPHIC LOG

Catena Resources

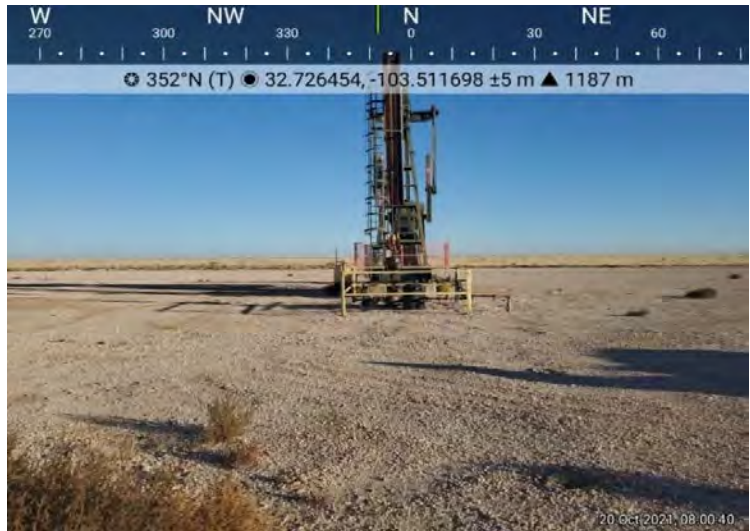
Photograph No. 4

Facility: Ironhouse 24 State Com 2H

County: Lea County, New Mexico

Description:

View looking west of sample points H-1, H-2, and S-1.



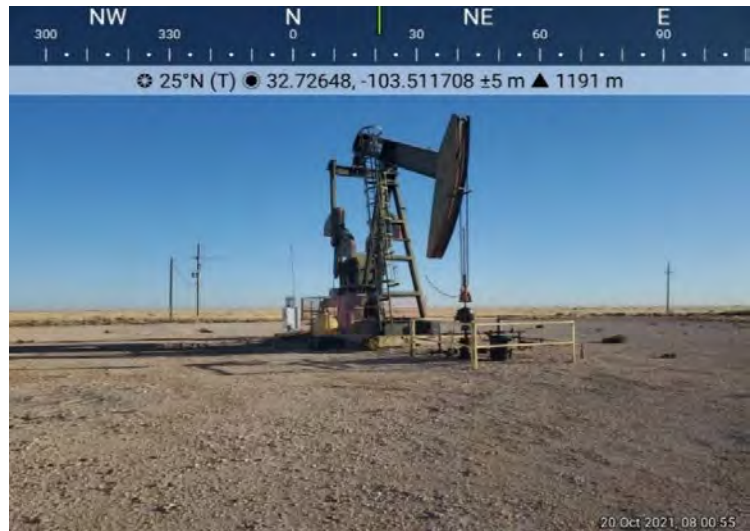
Photograph No. 5

Facility: Ironhouse 24 State Com 2H

County: Lea County, New Mexico

Description:

View looking northeast of sample points H-1, H-2, H-3, S-1, and S-3.



Site Characterization Information

Legend

- Ironhouse 24 State Com #002H
- LOW

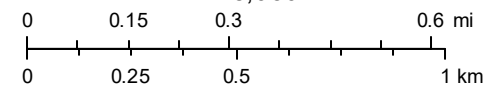
Ironhouse 24 State Com #002H

New Mexico NFHL Data



October 26, 2021

1:18,056



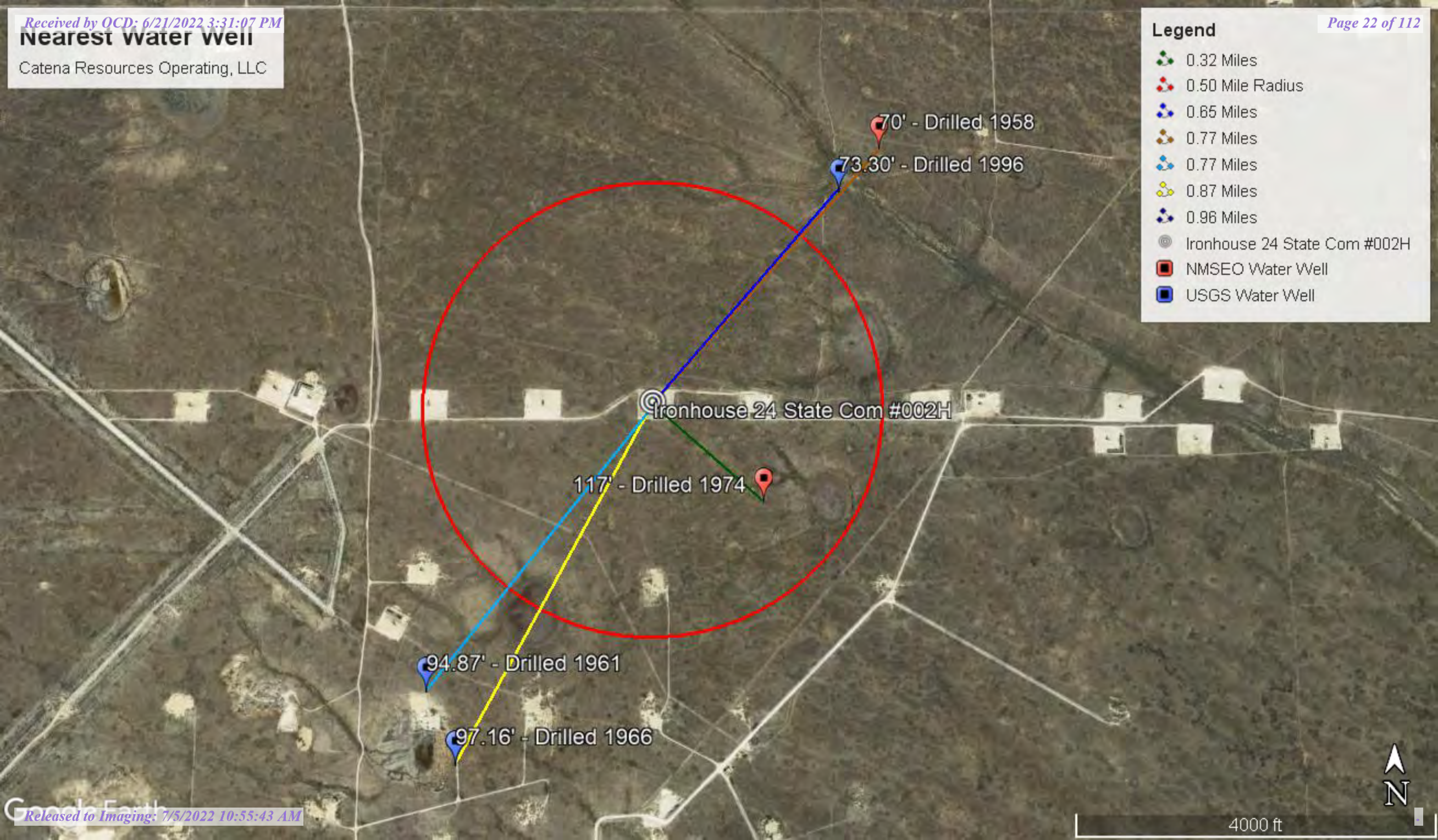
FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

Nearest water well

Catena Resources Operating, LLC

Legend

- 0.32 Miles
- 0.50 Mile Radius
- 0.65 Miles
- 0.77 Miles
- 0.77 Miles
- 0.87 Miles
- 0.96 Miles
- Ironhouse 24 State Com #002H
- NMSEO Water Well
- USGS Water Well





New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec Tws Rng	X	Y
L	03888	3	1	19	18S 35E	640253	3622912*
<hr/>							
Driller License: 99		Driller Company: O.R. MUSSELWHITE WATER WELL SE					
Driller Name:							
Drill Start Date: 06/06/1958		Drill Finish Date:		06/06/1958		Plug Date:	
Log File Date: 06/12/1958		PCW Rcv Date:				Source: Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:	
Casing Size: 5.50		Depth Well:		107 feet		Depth Water: 70 feet	
<hr/>							
Water Bearing Stratifications:		Top	Bottom	Description			
		85	105	Sandstone/Gravel/Conglomerate			
<hr/>							
Casing Perforations:		Top	Bottom				
		70	107				
<hr/>							

*UTM location was derived from PLSS - see Help


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

10/26/21 12:36 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	12926 POD1	2	2	3	25	18S	34E	639839	3621631 
Driller License: 46		Driller Company:		ABBOTT BROTHERS COMPANY					
Driller Name: ABBOTT, MURRELL									
Drill Start Date:	12/21/1974	Drill Finish Date:		12/29/1974		Plug Date:			
Log File Date:	01/06/1975	PCW Rcv Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:		50 GPM	
Casing Size:	7.00	Depth Well:		182 feet		Depth Water:		117 feet	
Water Bearing Stratifications:		Top	Bottom	Description					
		117	182	Other/Unknown					
Casing Perforations:		Top	Bottom						
		132	182						

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10/26/21 12:33 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 12926 POD1	L	LE		2	2	3	25	18S	34E	639839	3621631	504	182	117	65
L 03888	L	LE			3	1	19	18S	35E	640253	3622912*	1246	107	70	37
L 07928	L	LE		4	4	1	19	18S	35E	640639	3622915	1525	175		

Average Depth to Water: **93 feet**

Minimum Depth: **70 feet**

Maximum Depth: **117 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 639452.65

Northing (Y): 3621956.28

Radius: 1600

*UTM location was derived from PLSS - see Help

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10/26/21 12:33 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

C-141

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	nAPP2135151141
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Catena Resources Operating, LLC	OGRID 328449
Contact Name Cato Clark	Contact Telephone 346-200-7894
Contact email clark@catenares.com	Incident # (assigned by OCD) nAPP2135151141
Contact mailing address 1001 Fannin St., Suite 2200, Houston, TX 77002	

Location of Release Source

Latitude 32.726604 Longitude -103.511719
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Ironhouse 24 State Com 2	Site Type Wellhead
Date Release Discovered 11/15/2019	API# (if applicable) 30-025-41595

Unit Letter	Section	Township	Range	County
O	24	18S	34E	Lea

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 6.5	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 8.5	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Failure of the packing at the wellhead causing overspray onto the pad.

Form C-141


State of New Mexico
Oil Conservation Division

Page 2

Incident ID	nAPP2135151141
District RP	
Facility ID	
Application ID	

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

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Cato Clark	Title: Vice President Land
Signature: 	Date: 1/10/22
email: clark@catenares.com	Telephone: 346-200-7894
<u>OCD Only</u>	
Received by: Ramona Marcus	Date: 1/31/2022

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 74883

CONDITIONS

Operator: Catena Resources Operating, LLC 1001 Fannin Street Houston, TX 77002	OGRID: 328449
	Action Number: 74883
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	1/31/2022



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Groundwater

Geographic Area:

New Mexico

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Agency code = usgs

site_no list =

- 324347103300801

Minimum number of levels = 1

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USGS 324347103300801 18S.35E.19.13334

Lea County, New Mexico

Latitude 32°44'01", Longitude 103°30'17" NAD27

Land-surface elevation 3,944.00 feet above NGVD29

The depth of the well is 107 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) 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 of measurement	Water-level approval status
1961-03-09			D 62610		3874.96	NGVD29	3	Z			A
1961-03-09			D 62611		3876.54	NAVD88	3	Z			A
1961-03-09			D 72019	69.04			3	Z			A
1966-03-09			D 62610		3875.84	NGVD29	3	Z			A
1966-03-09			D 62611		3877.42	NAVD88	3	Z			A
1966-03-09			D 72019	68.16			3	Z			A
1971-01-20			D 62610		3875.17	NGVD29	3	Z			A
1971-01-20			D 62611		3876.75	NAVD88	3	Z			A
1971-01-20			D 72019	68.83			3	Z			A
1976-02-12			D 62610		3874.72	NGVD29	1	Z			A
1976-02-12			D 62611		3876.30	NAVD88	1	Z			A
1976-02-12			D 72019	69.28			1	Z			A
1981-03-10			D 62610		3873.54	NGVD29	1	Z			A
1981-03-10			D 62611		3875.12	NAVD88	1	Z			A
1981-03-10			D 72019	70.46			1	Z			A
1986-04-01			D 62610		3872.75	NGVD29	1	Z			A
1986-04-01			D 62611		3874.33	NAVD88	1	Z			A
1986-04-01			D 72019	71.25			1	Z			A
1996-02-15			D 62610		3870.70	NGVD29	1	S			A
1996-02-15			D 62611		3872.28	NAVD88	1	S			A
1996-02-15			D 72019	73.30			1	S			A

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	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

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



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Agency code = usgs
site_no list =

- 324304103311201

Minimum number of levels = 1
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USGS 324304103311201 18S.34E.25.13111

Lea County, New Mexico
Latitude 32°43'04", Longitude 103°31'12" NAD27
Land-surface elevation 3,972 feet above NAVD88
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) 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 of measurement	? Water-level approval status
1961-03-09		D	62610		3875.51	NGVD29	1	Z			A
1961-03-09		D	62611		3877.13	NAVD88	1	Z			A
1961-03-09		D	72019	94.87			1	Z			A

Explanation

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

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Agency code = usgs
site_no list =

- 324256103310801

Minimum number of levels = 1
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USGS 324256103310801 18S.34E.25.13333

Lea County, New Mexico
Latitude 32°42'56", Longitude 103°31'08" NAD27
Land-surface elevation 3,952 feet above NAVD88
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) 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 of measurement	? Water-level approval status
1966-03-09		D	62610		3853.21	NGVD29	1	Z			A
1966-03-09		D	62611		3854.84	NAVD88	1	Z			A
1966-03-09		D	72019	97.16			1	Z			A

Explanation

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

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0.28 0.24 nadww02

Laboratory Reports and Chain-of-Custody Documents



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-7519-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Ironhouse 24 State Com #002H

For:

NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Mike Carmona

Authorized for release by:
11/1/2021 2:18:19 PM

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

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

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

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Laboratory Job ID: 880-7519-1
SDG: Lea Co, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	18
Lab Chronicle	21
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

Job ID: 880-7519-1

Laboratory: Eurofins Xenco, Midland**Narrative**

**Job Narrative
880-7519-1****Receipt**

The samples were received on 10/25/2021 10:59 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 2.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10436 and analytical batch 880-10677 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-7519-1

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F2 F1	0.00202		mg/Kg		10/27/21 09:00	10/27/21 13:01	1
Toluene	<0.00202	U F1	0.00202		mg/Kg		10/27/21 09:00	10/27/21 13:01	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		10/27/21 09:00	10/27/21 13:01	1
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.00404		mg/Kg		10/27/21 09:00	10/27/21 13:01	1
o-Xylene	<0.00202	U F2 F1	0.00202		mg/Kg		10/27/21 09:00	10/27/21 13:01	1
Xylenes, Total	<0.00404	U F2 F1	0.00404		mg/Kg		10/27/21 09:00	10/27/21 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	10/27/21 09:00	10/27/21 13:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/27/21 09:00	10/27/21 13:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/01/21 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5040		249		mg/Kg			10/29/21 13:53	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	<249	U	249		mg/Kg		10/29/21 11:22	10/30/21 13:57	5
Diesel Range Organics (Over C10-C28)	4130		249		mg/Kg		10/29/21 11:22	10/30/21 13:57	5
Oil Range Organics (Over C28-C36)	908		249		mg/Kg		10/29/21 11:22	10/30/21 13:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	10/29/21 11:22	10/30/21 13:57	5
o-Terphenyl	95		70 - 130	10/29/21 11:22	10/30/21 13:57	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	272		5.05		mg/Kg			10/29/21 10:43	1

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

Lab Sample ID: 880-7519-2

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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		10/27/21 09:00	10/27/21 13:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 13:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 13:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/21 09:00	10/27/21 13:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 13:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/21 09:00	10/27/21 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	10/27/21 09:00	10/27/21 13:21	1
1,4-Difluorobenzene (Surr)	80		70 - 130	10/27/21 09:00	10/27/21 13:21	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-7519-2

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/01/21 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5950		250		mg/Kg			10/29/21 13:53	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	<250	U	250		mg/Kg		10/29/21 11:22	10/30/21 14:18	5
Diesel Range Organics (Over C10-C28)	4920		250		mg/Kg		10/29/21 11:22	10/30/21 14:18	5
Oil Range Organics (Over C28-C36)	1030		250		mg/Kg		10/29/21 11:22	10/30/21 14:18	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				10/29/21 11:22	10/30/21 14:18	5
o-Terphenyl	103		70 - 130				10/29/21 11:22	10/30/21 14:18	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		5.02		mg/Kg			10/29/21 10:50	1

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

Lab Sample ID: 880-7519-3

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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		10/27/21 09:00	10/27/21 13:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 13:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 13:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/21 09:00	10/27/21 13:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/21 09:00	10/27/21 13:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/21 09:00	10/27/21 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				10/27/21 09:00	10/27/21 13:41	1
1,4-Difluorobenzene (Surr)	107		70 - 130				10/27/21 09:00	10/27/21 13:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/01/21 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	576		49.8		mg/Kg			10/29/21 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/29/21 09:53	10/30/21 03:54	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-7519-3

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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)	448		49.8		mg/Kg		10/29/21 09:53	10/30/21 03:54	1
Oil Range Organics (Over C28-C36)	128		49.8		mg/Kg		10/29/21 09:53	10/30/21 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				10/29/21 09:53	10/30/21 03:54	1
o-Terphenyl	101		70 - 130				10/29/21 09:53	10/30/21 03:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		4.95		mg/Kg			10/29/21 12:54	1

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

Lab Sample ID: 880-7519-4

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/27/21 09:00	10/27/21 14:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/27/21 09:00	10/27/21 14:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/27/21 09:00	10/27/21 14:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/27/21 09:00	10/27/21 14:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/27/21 09:00	10/27/21 14:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/27/21 09:00	10/27/21 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/27/21 09:00	10/27/21 14:02	1
1,4-Difluorobenzene (Surr)	98		70 - 130				10/27/21 09:00	10/27/21 14:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/01/21 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2770		49.9		mg/Kg			10/29/21 13:53	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		10/29/21 09:53	10/30/21 04:15	1
Diesel Range Organics (Over C10-C28)	2310		49.9		mg/Kg		10/29/21 09:53	10/30/21 04:15	1
Oil Range Organics (Over C28-C36)	456		49.9		mg/Kg		10/29/21 09:53	10/30/21 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				10/29/21 09:53	10/30/21 04:15	1
o-Terphenyl	113		70 - 130				10/29/21 09:53	10/30/21 04:15	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-7519-4

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	305		5.04		mg/Kg			10/29/21 13:15	1

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

Lab Sample ID: 880-7519-5

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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		10/27/21 09:00	10/27/21 14:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 14:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 14:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/27/21 09:00	10/27/21 14:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 14:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/27/21 09:00	10/27/21 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130				10/27/21 09:00	10/27/21 14:22	1
1,4-Difluorobenzene (Surr)	85		70 - 130				10/27/21 09:00	10/27/21 14:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/01/21 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1550		49.9		mg/Kg			10/29/21 13:53	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		10/29/21 09:53	10/30/21 04:37	1
Diesel Range Organics (Over C10-C28)	1040		49.9		mg/Kg		10/29/21 09:53	10/30/21 04:37	1
Oil Range Organics (Over C28-C36)	512		49.9		mg/Kg		10/29/21 09:53	10/30/21 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				10/29/21 09:53	10/30/21 04:37	1
o-Terphenyl	93		70 - 130				10/29/21 09:53	10/30/21 04:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.6		4.97		mg/Kg			10/29/21 13:21	1

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

Lab Sample ID: 880-7519-6

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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		10/27/21 09:00	10/27/21 17:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 17:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 17:53	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-7519-6

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/27/21 09:00	10/27/21 17:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 17:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/27/21 09:00	10/27/21 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				10/27/21 09:00	10/27/21 17:53	1
1,4-Difluorobenzene (Surr)	90		70 - 130				10/27/21 09:00	10/27/21 17:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/01/21 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2520		49.9		mg/Kg			10/29/21 13:53	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		10/29/21 09:53	10/30/21 04:58	1
Diesel Range Organics (Over C10-C28)	2140		49.9		mg/Kg		10/29/21 09:53	10/30/21 04:58	1
Oil Range Organics (Over C28-C36)	382		49.9		mg/Kg		10/29/21 09:53	10/30/21 04:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				10/29/21 09:53	10/30/21 04:58	1
o-Terphenyl	93		70 - 130				10/29/21 09:53	10/30/21 04:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		4.99		mg/Kg			10/29/21 13:28	1

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

Lab Sample ID: 880-7519-7

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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		10/27/21 09:00	10/27/21 18:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 18:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 18:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/27/21 09:00	10/27/21 18:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 18:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/27/21 09:00	10/27/21 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				10/27/21 09:00	10/27/21 18:14	1
1,4-Difluorobenzene (Surr)	101		70 - 130				10/27/21 09:00	10/27/21 18:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/01/21 13:41	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-7519-7

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	616		49.8		mg/Kg			10/29/21 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/29/21 09:53	10/30/21 05:20	1
Diesel Range Organics (Over C10-C28)	470		49.8		mg/Kg		10/29/21 09:53	10/30/21 05:20	1
Oil Range Organics (Over C28-C36)	146		49.8		mg/Kg		10/29/21 09:53	10/30/21 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				10/29/21 09:53	10/30/21 05:20	1
o-Terphenyl	103		70 - 130				10/29/21 09:53	10/30/21 05:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.5		5.01		mg/Kg			10/29/21 13:35	1

Surrogate Summary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
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)
880-7519-1	S-1 (0-1')	87	97
880-7519-1 MS	S-1 (0-1')	102	104
880-7519-1 MSD	S-1 (0-1')	122	101
880-7519-2	S-1 (1-1.5')	75	80
880-7519-3	S-2 (0-1')	98	107
880-7519-4	S-2 (1-1.5')	99	98
880-7519-5	H-1 (0-6")	67 S1-	85
880-7519-6	H-2 (0-6")	78	90
880-7519-7	H-3 (0-6")	92	101
LCS 880-10436/1-A	Lab Control Sample	93	100
LCSD 880-10436/2-A	Lab Control Sample Dup	95	99
MB 880-10436/5-A	Method Blank	100	110
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)
880-7518-A-21-E MS	Matrix Spike	101	95
880-7518-A-21-F MSD	Matrix Spike Duplicate	103	97
880-7519-1	S-1 (0-1')	90	95
880-7519-2	S-1 (1-1.5')	98	103
880-7519-3	S-2 (0-1')	107	101
880-7519-4	S-2 (1-1.5')	125	113
880-7519-5	H-1 (0-6")	103	93
880-7519-6	H-2 (0-6")	104	93
880-7519-7	H-3 (0-6")	111	103
890-1481-A-1-F MS	Matrix Spike	107	92
890-1481-A-1-G MSD	Matrix Spike Duplicate	122	101
LCS 880-10916/2-A	Lab Control Sample	100	91
LCS 880-10924/2-A	Lab Control Sample	93	93
LCSD 880-10916/3-A	Lab Control Sample Dup	96	90
LCSD 880-10924/3-A	Lab Control Sample Dup	87	88
MB 880-10916/1-A	Method Blank	140 S1+	145 S1+
MB 880-10924/1-A	Method Blank	109	121
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Midland

QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10436/5-A

Matrix: Solid

Analysis Batch: 10677

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/27/21 09:00	10/27/21 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/21 09:00	10/27/21 12:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/27/21 09:00	10/27/21 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/27/21 09:00	10/27/21 12:32	1
1,4-Difluorobenzene (Surr)	110		70 - 130	10/27/21 09:00	10/27/21 12:32	1

Lab Sample ID: LCS 880-10436/1-A

Matrix: Solid

Analysis Batch: 10677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1073		mg/Kg		107	70 - 130
Toluene	0.100	0.1166		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1176		mg/Kg		118	70 - 130
m-Xylene & p-Xylene	0.200	0.2333		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1270		mg/Kg		127	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-10436/2-A

Matrix: Solid

Analysis Batch: 10677

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1055		mg/Kg		105	70 - 130	2	35
Toluene	0.100	0.1152		mg/Kg		115	70 - 130	1	35
Ethylbenzene	0.100	0.1203		mg/Kg		120	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2353		mg/Kg		118	70 - 130	1	35
o-Xylene	0.100	0.1239		mg/Kg		124	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-7519-1 MS

Matrix: Solid

Analysis Batch: 10677

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

Prep Type: Total/NA

Prep Batch: 10436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F2 F1	0.101	0.003788	F1	mg/Kg		4	70 - 130
Toluene	<0.00202	U F1	0.101	0.01188	F1	mg/Kg		11	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-7519-1 MS

Matrix: Solid

Analysis Batch: 10677

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

Prep Type: Total/NA

Prep Batch: 10436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U F1	0.101	0.01362	F1	mg/Kg		14	70 - 130
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.201	0.004926	F1	mg/Kg		2	70 - 130
o-Xylene	<0.00202	U F2 F1	0.101	<0.00201	U F1	mg/Kg		2	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-7519-1 MSD

Matrix: Solid

Analysis Batch: 10677

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

Prep Type: Total/NA

Prep Batch: 10436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F2 F1	0.100	0.007038	F2 F1	mg/Kg		7	70 - 130	60	35
Toluene	<0.00202	U F1	0.100	0.01136	F1	mg/Kg		11	70 - 130	4	35
Ethylbenzene	<0.00202	U F1	0.100	0.01667	F1	mg/Kg		17	70 - 130	20	35
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.200	0.02817	F2 F1	mg/Kg		14	70 - 130	140	35
o-Xylene	<0.00202	U F2 F1	0.100	0.02794	F2 F1	mg/Kg		28	70 - 130	178	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-10916/1-A

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10916

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		10/29/21 09:53	10/29/21 20:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/29/21 09:53	10/29/21 20:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/29/21 09:53	10/29/21 20:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	10/29/21 09:53	10/29/21 20:27	1
o-Terphenyl	145	S1+	70 - 130	10/29/21 09:53	10/29/21 20:27	1

Lab Sample ID: LCS 880-10916/2-A

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10916

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	823.6		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1181		mg/Kg		118	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-10916/2-A

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10916

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-10916/3-A

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10916

	Spike	LCSD	LCSD						%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Gasoline Range Organics (GRO)-C6-C10	1000	844.9		mg/Kg		84	70 - 130	3	20		
Diesel Range Organics (Over C10-C28)	1000	1080		mg/Kg		108	70 - 130	9	20		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-1481-A-1-F MS

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10916

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1025		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	330	F1	997	969.1	F1	mg/Kg		64	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-1481-A-1-G MSD

Matrix: Solid

Analysis Batch: 10891

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10916

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1135		mg/Kg		113	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	330	F1	1000	1127		mg/Kg		80	70 - 130	15	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	101		70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-10924/1-A

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10924

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		10/29/21 11:22	10/30/21 10:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/29/21 11:22	10/30/21 10:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/29/21 11:22	10/30/21 10:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				10/29/21 11:22	10/30/21 10:43	1
o-Terphenyl	121		70 - 130				10/29/21 11:22	10/30/21 10:43	1

Lab Sample ID: LCS 880-10924/2-A

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	793.0		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1086		mg/Kg		109	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	93		70 - 130				
o-Terphenyl	93		70 - 130				

Lab Sample ID: LCSD 880-10924/3-A

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10924

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	755.4		mg/Kg		76	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1090		mg/Kg		109	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	87		70 - 130						
o-Terphenyl	88		70 - 130						

Lab Sample ID: 880-7518-A-21-E MS

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	996.7		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1035		mg/Kg		102	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-7518-A-21-E MS

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10924

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-7518-A-21-F MSD

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1011		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1091		mg/Kg		108	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	97		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10740/1-A

Matrix: Solid

Analysis Batch: 10800

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			10/29/21 05:58	1

Lab Sample ID: LCS 880-10740/2-A

Matrix: Solid

Analysis Batch: 10800

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.0		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-10740/3-A

Matrix: Solid

Analysis Batch: 10800

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	259.4		mg/Kg		104	90 - 110	5	20

Lab Sample ID: 880-7518-A-17-F MS

Matrix: Solid

Analysis Batch: 10800

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	42.2		252	293.0		mg/Kg		100	90 - 110

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QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-7518-A-17-G MSD

Matrix: Solid

Analysis Batch: 10800

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	42.2		252	294.9		mg/Kg		100	90 - 110	1	20

Lab Sample ID: MB 880-10741/1-A

Matrix: Solid

Analysis Batch: 10801

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			10/29/21 12:33	1

Lab Sample ID: LCS 880-10741/2-A

Matrix: Solid

Analysis Batch: 10801

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	248.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-10741/3-A

Matrix: Solid

Analysis Batch: 10801

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	248.7		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-7519-3 MS

Matrix: Solid

Analysis Batch: 10801

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	168		248	410.1		mg/Kg		98	90 - 110

Lab Sample ID: 880-7519-3 MSD

Matrix: Solid

Analysis Batch: 10801

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	168		248	409.5		mg/Kg		97	90 - 110	0	20

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QC Association Summary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 10436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-1	S-1 (0-1')	Total/NA	Solid	5035	
880-7519-2	S-1 (1-1.5')	Total/NA	Solid	5035	
880-7519-3	S-2 (0-1')	Total/NA	Solid	5035	
880-7519-4	S-2 (1-1.5')	Total/NA	Solid	5035	
880-7519-5	H-1 (0-6")	Total/NA	Solid	5035	
880-7519-6	H-2 (0-6")	Total/NA	Solid	5035	
880-7519-7	H-3 (0-6")	Total/NA	Solid	5035	
MB 880-10436/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10436/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10436/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7519-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-7519-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 10677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-1	S-1 (0-1')	Total/NA	Solid	8021B	10436
880-7519-2	S-1 (1-1.5')	Total/NA	Solid	8021B	10436
880-7519-3	S-2 (0-1')	Total/NA	Solid	8021B	10436
880-7519-4	S-2 (1-1.5')	Total/NA	Solid	8021B	10436
880-7519-5	H-1 (0-6")	Total/NA	Solid	8021B	10436
880-7519-6	H-2 (0-6")	Total/NA	Solid	8021B	10436
880-7519-7	H-3 (0-6")	Total/NA	Solid	8021B	10436
MB 880-10436/5-A	Method Blank	Total/NA	Solid	8021B	10436
LCS 880-10436/1-A	Lab Control Sample	Total/NA	Solid	8021B	10436
LCSD 880-10436/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10436
880-7519-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	10436
880-7519-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	10436

Analysis Batch: 11149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-7519-2	S-1 (1-1.5')	Total/NA	Solid	Total BTEX	
880-7519-3	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-7519-4	S-2 (1-1.5')	Total/NA	Solid	Total BTEX	
880-7519-5	H-1 (0-6")	Total/NA	Solid	Total BTEX	
880-7519-6	H-2 (0-6")	Total/NA	Solid	Total BTEX	
880-7519-7	H-3 (0-6")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 10891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-3	S-2 (0-1')	Total/NA	Solid	8015B NM	10916
880-7519-4	S-2 (1-1.5')	Total/NA	Solid	8015B NM	10916
880-7519-5	H-1 (0-6")	Total/NA	Solid	8015B NM	10916
880-7519-6	H-2 (0-6")	Total/NA	Solid	8015B NM	10916
880-7519-7	H-3 (0-6")	Total/NA	Solid	8015B NM	10916
MB 880-10916/1-A	Method Blank	Total/NA	Solid	8015B NM	10916
LCS 880-10916/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10916
LCSD 880-10916/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10916
890-1481-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	10916

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QC Association Summary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 10891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1481-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10916

Prep Batch: 10916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-3	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-7519-4	S-2 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-7519-5	H-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-7519-6	H-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-7519-7	H-3 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-10916/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10916/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10916/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1481-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1481-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 10924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-7519-2	S-1 (1-1.5')	Total/NA	Solid	8015NM Prep	
MB 880-10924/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10924/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7518-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7518-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-7519-2	S-1 (1-1.5')	Total/NA	Solid	8015 NM	
880-7519-3	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-7519-4	S-2 (1-1.5')	Total/NA	Solid	8015 NM	
880-7519-5	H-1 (0-6")	Total/NA	Solid	8015 NM	
880-7519-6	H-2 (0-6")	Total/NA	Solid	8015 NM	
880-7519-7	H-3 (0-6")	Total/NA	Solid	8015 NM	

Analysis Batch: 10998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-1	S-1 (0-1')	Total/NA	Solid	8015B NM	10924
880-7519-2	S-1 (1-1.5')	Total/NA	Solid	8015B NM	10924
MB 880-10924/1-A	Method Blank	Total/NA	Solid	8015B NM	10924
LCS 880-10924/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10924
LCSD 880-10924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10924
880-7518-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	10924
880-7518-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10924

HPLC/IC

Leach Batch: 10740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-7519-2	S-1 (1-1.5')	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 10740 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10740/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10740/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10740/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7518-A-17-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7518-A-17-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 10741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-3	S-2 (0-1')	Soluble	Solid	DI Leach	
880-7519-4	S-2 (1-1.5')	Soluble	Solid	DI Leach	
880-7519-5	H-1 (0-6")	Soluble	Solid	DI Leach	
880-7519-6	H-2 (0-6")	Soluble	Solid	DI Leach	
880-7519-7	H-3 (0-6")	Soluble	Solid	DI Leach	
MB 880-10741/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10741/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10741/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7519-3 MS	S-2 (0-1')	Soluble	Solid	DI Leach	
880-7519-3 MSD	S-2 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 10800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-1	S-1 (0-1')	Soluble	Solid	300.0	10740
880-7519-2	S-1 (1-1.5')	Soluble	Solid	300.0	10740
MB 880-10740/1-A	Method Blank	Soluble	Solid	300.0	10740
LCS 880-10740/2-A	Lab Control Sample	Soluble	Solid	300.0	10740
LCSD 880-10740/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10740
880-7518-A-17-F MS	Matrix Spike	Soluble	Solid	300.0	10740
880-7518-A-17-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	10740

Analysis Batch: 10801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7519-3	S-2 (0-1')	Soluble	Solid	300.0	10741
880-7519-4	S-2 (1-1.5')	Soluble	Solid	300.0	10741
880-7519-5	H-1 (0-6")	Soluble	Solid	300.0	10741
880-7519-6	H-2 (0-6")	Soluble	Solid	300.0	10741
880-7519-7	H-3 (0-6")	Soluble	Solid	300.0	10741
MB 880-10741/1-A	Method Blank	Soluble	Solid	300.0	10741
LCS 880-10741/2-A	Lab Control Sample	Soluble	Solid	300.0	10741
LCSD 880-10741/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10741
880-7519-3 MS	S-2 (0-1')	Soluble	Solid	300.0	10741
880-7519-3 MSD	S-2 (0-1')	Soluble	Solid	300.0	10741

Eurofins Xenco, Midland

Lab Chronicle

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-7519-1

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 13:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10924	10/29/21 11:22	DM	XEN MID
Total/NA	Analysis	8015B NM		5			10998	10/30/21 13:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10740	10/27/21 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			10800	10/29/21 10:43	CH	XEN MID

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

Lab Sample ID: 880-7519-2

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 13:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10924	10/29/21 11:22	DM	XEN MID
Total/NA	Analysis	8015B NM		5			10998	10/30/21 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	10740	10/27/21 12:31	SC	XEN MID
Soluble	Analysis	300.0		1			10800	10/29/21 10:50	CH	XEN MID

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

Lab Sample ID: 880-7519-3

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 13:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10916	10/29/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/30/21 03:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10741	10/27/21 12:38	SC	XEN MID
Soluble	Analysis	300.0		1			10801	10/29/21 12:54	CH	XEN MID

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

Lab Sample ID: 880-7519-4

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 14:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-7519-4

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10916	10/29/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/30/21 04:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10741	10/27/21 12:38	SC	XEN MID
Soluble	Analysis	300.0		1			10801	10/29/21 13:15	CH	XEN MID

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

Lab Sample ID: 880-7519-5

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 14:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10916	10/29/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/30/21 04:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	10741	10/27/21 12:38	SC	XEN MID
Soluble	Analysis	300.0		1			10801	10/29/21 13:21	CH	XEN MID

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

Lab Sample ID: 880-7519-6

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 17:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10916	10/29/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/30/21 04:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10741	10/27/21 12:38	SC	XEN MID
Soluble	Analysis	300.0		1			10801	10/29/21 13:28	CH	XEN MID

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

Lab Sample ID: 880-7519-7

Date Collected: 10/21/21 00:00

Matrix: Solid

Date Received: 10/25/21 10:59

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	10436	10/27/21 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10677	10/27/21 18:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10916	10/29/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10891	10/30/21 05:20	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
SDG: Lea Co, NM

Client Sample ID: H-3 (0-6")
Date Collected: 10/21/21 00:00
Date Received: 10/25/21 10:59

Lab Sample ID: 880-7519-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	10741	10/27/21 12:38	SC	XEN MID
Soluble	Analysis	300.0		1			10801	10/29/21 13:35	CH	XEN MID

Laboratory References:

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

- 1
- 2
- 3
- 4
- 5
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- 10
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- 12
- 13
- 14

Accreditation/Certification Summary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-7519-1
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	T104704400-21-22	06-30-22

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

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

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

Method Summary

Client: NT Global

Job ID: 880-7519-1

Project/Site: Ironhouse 24 State Com #002H

SDG: Lea Co, NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Midland

Sample Summary

Client: NT Global

Job ID: 880-7519-1

Project/Site: Ironhouse 24 State Com #002H

SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-7519-1	S-1 (0-1')	Solid	10/21/21 00:00	10/25/21 10:59
880-7519-2	S-1 (1-1.5')	Solid	10/21/21 00:00	10/25/21 10:59
880-7519-3	S-2 (0-1')	Solid	10/21/21 00:00	10/25/21 10:59
880-7519-4	S-2 (1-1.5')	Solid	10/21/21 00:00	10/25/21 10:59
880-7519-5	H-1 (0-6")	Solid	10/21/21 00:00	10/25/21 10:59
880-7519-6	H-2 (0-6")	Solid	10/21/21 00:00	10/25/21 10:59
880-7519-7	H-3 (0-6")	Solid	10/21/21 00:00	10/25/21 10:59



Chain of Custody

Wor



880-7519 Chain of Custody

Project Manager	Mike Carmona	Bill to (if different)	
Company Name	NTG Environmental	Company Name	
Address	701 Tradewinds BLVD	Address	
City, State ZIP	Midland, TX 79706	City, State ZIP	
Phone	432-819-0263	Email	mcarmona@ntglobal.com

Work Order Comments

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

State of Project:





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

Deliverables EDD ☐ ADaPT ☐ Other

[illegible]

Additoinal Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$35.00 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 		10-25-21	2		
3 		1050	4		
5			6		

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-7519-1

SDG Number: Lea Co, NM

Login Number: 7519

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

Report to:

Mike Carmona



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

NTG-New Tech Global Environmental

Project Name: Ironhouse 24 State Com 2H

Work Order: E112044

Job Number: 21106-0001

Received: 12/9/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/21

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 12/15/21

Mike Carmona
911 Regional Park Dr.
Houston, TX 77060



Project Name: Ironhouse 24 State Com 2H
Workorder: E112044
Date Received: 12/9/2021 12:00:00PM

Mike Carmona,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/9/2021 12:00:00PM, under the Project Name: Ironhouse 24 State Com 2H.

The analytical test results summarized in this report with the Project Name: Ironhouse 24 State Com 2H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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rainaschwanz@envirotech-inc.com

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Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
T-1 (0-1')	5
T-1 (1')	6
T-1 (2')	7
T-2 (0-1')	8
T-2 (1')	9
T-2 (2')	10
T-2 (3')	11
H-1 (0-0.5')	12
H-2 (0-0.5')	13
H-3 (0-0.5')	14
QC Summary Data	15
QC - Volatile Organics by EPA 8021B	15
QC - Nonhalogenated Organics by EPA 8015D - GRO	16
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	17
QC - Anions by EPA 300.0/9056A	19
Definitions and Notes	20
Chain of Custody etc.	21

Sample Summary

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name:	Ironhouse 24 State Com 2H	Reported: 12/15/21 16:29
	Project Number:	21106-0001	
	Project Manager:	Mike Carmona	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
T-1 (0-1')	E112044-01A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-1 (1')	E112044-02A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-1 (2')	E112044-03A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-2 (0-1')	E112044-04A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-2 (1')	E112044-05A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-2 (2')	E112044-06A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
T-2 (3')	E112044-07A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
H-1 (0-0.5')	E112044-08A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
H-2 (0-0.5')	E112044-09A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.
H-3 (0-0.5')	E112044-10A	Soil	12/08/21	12/09/21	Glass Jar, 4 oz.



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Ironhouse 24 State Com 2H Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/2021 4:29:37PM
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T-1 (0-1')

E112044-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2150044	
Benzene	ND	0.0250	1	12/10/21	12/13/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/13/21	
Toluene	ND	0.0250	1	12/10/21	12/13/21	
o-Xylene	ND	0.0250	1	12/10/21	12/13/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/13/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/13/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.1 %	70-130		12/10/21	12/13/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2150044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/13/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.1 %	70-130		12/10/21	12/13/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2150055	
Diesel Range Organics (C10-C28)	93.0	25.0	1	12/10/21	12/14/21	
Oil Range Organics (C28-C36)	174	50.0	1	12/10/21	12/14/21	
<i>Surrogate: n-Nonane</i>	115 %	50-200		12/10/21	12/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2150048	
Chloride	190	20.0	1	12/11/21	12/11/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: Ironhouse 24 State Com 2H
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 4:29:37PM

T-1 (1')

E112044-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/14/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		12/10/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150048
Chloride	222	20.0	1	12/11/21	12/11/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: Ironhouse 24 State Com 2H
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 4:29:37PM

T-1 (2')

E112044-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150055
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/14/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		12/10/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150048
Chloride	149	20.0	1	12/11/21	12/11/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: Ironhouse 24 State Com 2H
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 4:29:37PM

T-2 (0-1')

E112044-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2150044	
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2150044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2150055	
Diesel Range Organics (C10-C28)	1280	50.0	2	12/10/21	12/14/21	
Oil Range Organics (C28-C36)	1350	100	2	12/10/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
	120 %	50-200		12/10/21	12/14/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2150048	
Chloride	1570	20.0	1	12/11/21	12/11/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: Ironhouse 24 State Com 2H
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 4:29:37PM

T-2 (1')

E112044-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.8 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150055
Diesel Range Organics (C10-C28)	2700	50.0	2	12/10/21	12/14/21	
Oil Range Organics (C28-C36)	1750	100	2	12/10/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
		123 %	50-200	12/10/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150048
Chloride	377	20.0	1	12/11/21	12/11/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: Ironhouse 24 State Com 2H
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 4:29:37PM

T-2 (2')

E112044-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.8 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150055
Diesel Range Organics (C10-C28)	354	25.0	1	12/10/21	12/15/21	
Oil Range Organics (C28-C36)	272	50.0	1	12/10/21	12/15/21	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	12/10/21	12/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150048
Chloride	491	20.0	1	12/11/21	12/11/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: Ironhouse 24 State Com 2H
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 4:29:37PM

T-2 (3')

E112044-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150055
Diesel Range Organics (C10-C28)	159	25.0	1	12/10/21	12/15/21	
Oil Range Organics (C28-C36)	117	50.0	1	12/10/21	12/15/21	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	12/10/21	12/15/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150048
Chloride	255	20.0	1	12/11/21	12/11/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: Ironhouse 24 State Com 2H
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 4:29:37PM

H-1 (0-0.5')

E112044-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150056
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/14/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		12/10/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150048
Chloride	218	20.0	1	12/11/21	12/11/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: Ironhouse 24 State Com 2H
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 4:29:37PM

H-2 (0-0.5')

E112044-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.9 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150056
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/14/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
		122 %	50-200	12/10/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150048
Chloride	165	20.0	1	12/11/21	12/11/21	



Sample Data

NTG-New Tech Global Environmental
911 Regional Park Dr.
Houston TX, 77060

Project Name: Ironhouse 24 State Com 2H
Project Number: 21106-0001
Project Manager: Mike Carmona

Reported:
12/15/2021 4:29:37PM

H-3 (0-0.5')

E112044-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Benzene	ND	0.0250	1	12/10/21	12/14/21	
Ethylbenzene	ND	0.0250	1	12/10/21	12/14/21	
Toluene	ND	0.0250	1	12/10/21	12/14/21	
o-Xylene	ND	0.0250	1	12/10/21	12/14/21	
p,m-Xylene	ND	0.0500	1	12/10/21	12/14/21	
Total Xylenes	ND	0.0250	1	12/10/21	12/14/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150044
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/21	12/14/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	12/10/21	12/14/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150056
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/21	12/14/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/10/21	12/14/21	
<i>Surrogate: n-Nonane</i>						
		120 %	50-200	12/10/21	12/14/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150048
Chloride	214	20.0	1	12/11/21	12/11/21	



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Ironhouse 24 State Com 2H Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/2021 4:29:37PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2150044-BLK1)

Prepared: 12/10/21 Analyzed: 12/14/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.2	70-130			

LCS (2150044-BS1)

Prepared: 12/10/21 Analyzed: 12/14/21

Benzene	4.68	0.0250	5.00		93.7	70-130			
Ethylbenzene	4.63	0.0250	5.00		92.7	70-130			
Toluene	4.79	0.0250	5.00		95.8	70-130			
o-Xylene	4.76	0.0250	5.00		95.1	70-130			
p,m-Xylene	9.42	0.0500	10.0		94.2	70-130			
Total Xylenes	14.2	0.0250	15.0		94.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			

Matrix Spike (2150044-MS1)

Source: E112044-01

Prepared: 12/10/21 Analyzed: 12/14/21

Benzene	4.59	0.0250	5.00	ND	91.9	54-133			
Ethylbenzene	4.55	0.0250	5.00	ND	90.9	61-133			
Toluene	4.71	0.0250	5.00	ND	94.2	61-130			
o-Xylene	4.67	0.0250	5.00	ND	93.5	63-131			
p,m-Xylene	9.25	0.0500	10.0	ND	92.5	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.1	70-130			

Matrix Spike Dup (2150044-MSD1)

Source: E112044-01

Prepared: 12/10/21 Analyzed: 12/14/21

Benzene	4.40	0.0250	5.00	ND	88.0	54-133	4.24	20	
Ethylbenzene	4.34	0.0250	5.00	ND	86.7	61-133	4.76	20	
Toluene	4.49	0.0250	5.00	ND	89.8	61-130	4.72	20	
o-Xylene	4.47	0.0250	5.00	ND	89.4	63-131	4.44	20	
p,m-Xylene	8.82	0.0500	10.0	ND	88.2	63-131	4.75	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.6	63-131	4.65	20	
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Ironhouse 24 State Com 2H Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/2021 4:29:37PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2150044-BLK1)

Prepared: 12/10/21 Analyzed: 12/14/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

LCS (2150044-BS2)

Prepared: 12/10/21 Analyzed: 12/14/21

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0		96.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike (2150044-MS2)

Source: E112044-01

Prepared: 12/10/21 Analyzed: 12/14/21

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2150044-MSD2)

Source: E112044-01

Prepared: 12/10/21 Analyzed: 12/14/21

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.1	70-130	3.94	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Ironhouse 24 State Com 2H Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/2021 4:29:37PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2150055-BLK1)

Prepared: 12/10/21 Analyzed: 12/13/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.3		50.0		109	50-200			

LCS (2150055-BS1)

Prepared: 12/10/21 Analyzed: 12/13/21

Diesel Range Organics (C10-C28)	564	25.0	500		113	38-132			
Surrogate: n-Nonane	52.5		50.0		105	50-200			

Matrix Spike (2150055-MS1)

Source: E112043-02

Prepared: 12/10/21 Analyzed: 12/13/21

Diesel Range Organics (C10-C28)	5730	125	500	5330	79.8	38-132			
Surrogate: n-Nonane	58.7		50.0		117	50-200			

Matrix Spike Dup (2150055-MSD1)

Source: E112043-02

Prepared: 12/10/21 Analyzed: 12/14/21

Diesel Range Organics (C10-C28)	5580	125	500	5330	49.4	38-132	2.68	20	
Surrogate: n-Nonane	60.5		50.0		121	50-200			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Ironhouse 24 State Com 2H Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/2021 4:29:37PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2150056-BLK1)

Prepared: 12/10/21 Analyzed: 12/13/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.7		50.0		103	50-200			

LCS (2150056-BS1)

Prepared: 12/10/21 Analyzed: 12/13/21

Diesel Range Organics (C10-C28)	454	25.0	500		90.7	38-132			
Surrogate: n-Nonane	54.3		50.0		109	50-200			

Matrix Spike (2150056-MS1)

Source: E112045-13

Prepared: 12/10/21 Analyzed: 12/14/21

Diesel Range Organics (C10-C28)	477	25.0	500	ND	95.4	38-132			
Surrogate: n-Nonane	53.4		50.0		107	50-200			

Matrix Spike Dup (2150056-MSD1)

Source: E112045-13

Prepared: 12/10/21 Analyzed: 12/14/21

Diesel Range Organics (C10-C28)	463	25.0	500	ND	92.5	38-132	3.09	20	
Surrogate: n-Nonane	55.5		50.0		111	50-200			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Ironhouse 24 State Com 2H Project Number: 21106-0001 Project Manager: Mike Carmona	Reported: 12/15/2021 4:29:37PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2150048-BLK1)

Prepared: 12/11/21 Analyzed: 12/11/21

Chloride ND 20.0

LCS (2150048-BS1)

Prepared: 12/11/21 Analyzed: 12/11/21

Chloride 252 20.0 250 101 90-110

Matrix Spike (2150048-MS1)

Source: E112038-01

Prepared: 12/11/21 Analyzed: 12/11/21

Chloride 431 20.0 250 184 98.9 80-120

Matrix Spike Dup (2150048-MSD1)

Source: E112038-01

Prepared: 12/11/21 Analyzed: 12/11/21

Chloride 418 20.0 250 184 93.3 80-120 3.27 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

NTG-New Tech Global Environmental	Project Name:	Ironhouse 24 State Com 2H	
911 Regional Park Dr.	Project Number:	21106-0001	Reported:
Houston TX, 77060	Project Manager:	Mike Carmona	12/15/21 16:29

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Work Order No: E112044
Job # 21106-0001

Page 1 of 1

Project Manager:	Mike Carmona	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	701 Tradewinds BLVD	Address:	
City, State ZIP:	Midland, TX 79706	City, State ZIP:	
Phone:	432-813-0263	Email:	mcarmona@ntglobal.com

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

[illegible]

Additoinal Comments:

Additional Comments: Samples received with visible Ice 4°



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

Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1	Nick Hunt	2	Carly Christian	12-8-21 1:31	3						
3		4		12/9/21 12:00	5						
5		6			7						

Page 1 of 1

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

Additoinal Comments:

Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1	Nick Hoss	 Caitlin Christensen		12-8-21 11:31		2					
3				12/9/21 12:00		4					
5						6					

Envirotech Analytical Laboratory

Printed: 12/10/2021 11:57:02AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	NTG-New Tech Global Environmental	Date Received:	12/09/21 12:00	Work Order ID:	E112044
Phone:	(432) 685-3898	Date Logged In:	12/09/21 12:17	Logged In By:	Jessica Liesse
Email:	mcarmona@ntglobal.com	Due Date:	12/15/21 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? No
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: FedExComments/Resolution

2 COCs were rcvd. COC pages indicate 1 of 1. COCs arrived paperclipped together w/ the same Project name. These 2 COCs will be ran together as 1 workorder with a total of 10 samples between the 2 COCs. 3 of the sample IDs did not match COC. Noted on COC

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-11137-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Ironhouse 24 State Com #002H

For:

NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Gordon Banks

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

Authorized for release by:
2/16/2022 3:48:09 PM

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

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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: Ironhouse 24 State Com #002H

Laboratory Job ID: 880-11137-1
SDG: Lea Co, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	15
Lab Chronicle	18
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	24

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

Definitions/Glossary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

Job ID: 880-11137-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-11137-1****Receipt**

The samples were received on 2/9/2022 4:23 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.3°C

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: BH-2 (0-1') (880-11137-1) at 20.0. Elevated reporting limits (RLs) are provided.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18968 and analytical batch 880-19027 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19009 and analytical batch 880-18981 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-2 (3'-4') (880-11137-4), (880-11100-A-1-E MS) and (880-11100-A-1-F MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-19033 and analytical batch 880-19108 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-11137-1

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.210		0.0398		mg/Kg		02/10/22 08:33	02/10/22 17:16	20
Toluene	0.0436		0.0398		mg/Kg		02/10/22 08:33	02/10/22 17:16	20
Ethylbenzene	<0.0398	U	0.0398		mg/Kg		02/10/22 08:33	02/10/22 17:16	20
m-Xylene & p-Xylene	<0.0795	U	0.0795		mg/Kg		02/10/22 08:33	02/10/22 17:16	20
o-Xylene	<0.0398	U	0.0398		mg/Kg		02/10/22 08:33	02/10/22 17:16	20
Xylenes, Total	<0.0795	U	0.0795		mg/Kg		02/10/22 08:33	02/10/22 17:16	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				02/10/22 08:33	02/10/22 17:16	20
1,4-Difluorobenzene (Surr)	88		70 - 130				02/10/22 08:33	02/10/22 17:16	20

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.254		0.0795		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/15/22 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	50.0		mg/Kg		02/10/22 10:52	02/11/22 12:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 10:52	02/11/22 12:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 10:52	02/11/22 12:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				02/10/22 10:52	02/11/22 12:25	1
o-Terphenyl	94		70 - 130				02/10/22 10:52	02/11/22 12:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	303		5.04		mg/Kg			02/15/22 19:53	1

Client Sample ID: BH-2 (1'-2')

Lab Sample ID: 880-11137-2

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198		mg/Kg		02/10/22 08:33	02/10/22 16:49	1
Toluene	<0.00198	U F1	0.00198		mg/Kg		02/10/22 08:33	02/10/22 16:49	1
Ethylbenzene	<0.00198	U F1	0.00198		mg/Kg		02/10/22 08:33	02/10/22 16:49	1
m-Xylene & p-Xylene	<0.00396	U F1	0.00396		mg/Kg		02/10/22 08:33	02/10/22 16:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/10/22 08:33	02/10/22 16:49	1
Xylenes, Total	<0.00396	U F1	0.00396		mg/Kg		02/10/22 08:33	02/10/22 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				02/10/22 08:33	02/10/22 16:49	1
1,4-Difluorobenzene (Surr)	79		70 - 130				02/10/22 08:33	02/10/22 16:49	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (1'-2')

Lab Sample ID: 880-11137-2

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/15/22 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 10:52	02/11/22 15:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/10/22 10:52	02/11/22 15:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 10:52	02/11/22 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				02/10/22 10:52	02/11/22 15:12	1
o-Terphenyl	88		70 - 130				02/10/22 10:52	02/11/22 15:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	372		4.98		mg/Kg			02/15/22 20:01	1

Client Sample ID: BH-2 (2'-3')

Lab Sample ID: 880-11137-3

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

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		02/10/22 08:33	02/10/22 17:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 17:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 17:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/22 08:33	02/10/22 17:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 17:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/22 08:33	02/10/22 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				02/10/22 08:33	02/10/22 17:43	1
1,4-Difluorobenzene (Surr)	116		70 - 130				02/10/22 08:33	02/10/22 17:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/15/22 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 10:52	02/11/22 15:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 10:52	02/11/22 15:33	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (2'-3')

Lab Sample ID: 880-11137-3

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 10:52	02/11/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				02/10/22 10:52	02/11/22 15:33	1
o-Terphenyl	87		70 - 130				02/10/22 10:52	02/11/22 15:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	198		5.05		mg/Kg			02/15/22 20:28	1

Client Sample ID: BH-2 (3'-4')

Lab Sample ID: 880-11137-4

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

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		02/10/22 08:33	02/10/22 18:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 18:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 18:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/22 08:33	02/10/22 18:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 18:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/22 08:33	02/10/22 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				02/10/22 08:33	02/10/22 18:10	1
1,4-Difluorobenzene (Surr)	116		70 - 130				02/10/22 08:33	02/10/22 18:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/11/22 13:02	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		02/10/22 09:33	02/10/22 20:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 20:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				02/10/22 09:33	02/10/22 20:47	1
o-Terphenyl	65	S1-	70 - 130				02/10/22 09:33	02/10/22 20:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.7		4.99		mg/Kg			02/15/22 20:37	1

Eurofins Midland

Surrogate Summary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-11137-1	BH-2 (0-1')	103	88				
880-11137-2	BH-2 (1'-2')	102	79				
880-11137-2 MS	BH-2 (1'-2')	86	122				
880-11137-2 MSD	BH-2 (1'-2')	83	117				
880-11137-3	BH-2 (2'-3')	91	116				
880-11137-4	BH-2 (3'-4')	90	116				
LCS 880-18968/1-A	Lab Control Sample	82	115				
LCSD 880-18968/2-A	Lab Control Sample Dup	77	122				
MB 880-18968/5-A	Method Blank	68 S1-	101				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-11100-A-1-E MS	Matrix Spike	66 S1-	56 S1-				
880-11100-A-1-F MSD	Matrix Spike Duplicate	64 S1-	55 S1-				
880-11137-1	BH-2 (0-1')	94	94				
880-11137-1 MS	BH-2 (0-1')	77	78				
880-11137-1 MSD	BH-2 (0-1')	93	78				
880-11137-2	BH-2 (1'-2')	88	88				
880-11137-3	BH-2 (2'-3')	89	87				
880-11137-4	BH-2 (3'-4')	66 S1-	65 S1-				
LCS 880-19009/2-A	Lab Control Sample	95	86				
LCSD 880-19009/3-A	Lab Control Sample Dup	94	83				
MB 880-19009/1-A	Method Blank	73	76				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO2	OTPH2				
		(70-130)	(70-130)				
LCS 880-19033/2-A	Lab Control Sample	97	101				
LCSD 880-19033/3-A	Lab Control Sample Dup	96	100				
MB 880-19033/1-A	Method Blank	78	79				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

Eurofins Midland

QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18968/5-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 16:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 16:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 16:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/22 08:33	02/10/22 16:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 16:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/22 08:33	02/10/22 16:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	02/10/22 08:33	02/10/22 16:22	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/10/22 08:33	02/10/22 16:22	1

Lab Sample ID: LCS 880-18968/1-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07944		mg/Kg		79	70 - 130
Toluene	0.100	0.08308		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.07625		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	0.200	0.1694		mg/Kg		85	70 - 130
o-Xylene	0.100	0.09615		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-18968/2-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07778		mg/Kg		78	70 - 130	2	35
Toluene	0.100	0.07780		mg/Kg		78	70 - 130	7	35
Ethylbenzene	0.100	0.07782		mg/Kg		78	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1636		mg/Kg		82	70 - 130	3	35
o-Xylene	0.100	0.08495		mg/Kg		85	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Lab Sample ID: 880-11137-2 MS

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: BH-2 (1'-2')

Prep Type: Total/NA

Prep Batch: 18968

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.100	0.06799	F1	mg/Kg		68	70 - 130
Toluene	<0.00198	U F1	0.100	0.06973	F1	mg/Kg		69	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-11137-2 MS

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: BH-2 (1'-2')

Prep Type: Total/NA

Prep Batch: 18968

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U F1	0.100	0.06940	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.201	0.1450		mg/Kg		72	70 - 130
o-Xylene	<0.00198	U	0.100	0.07478		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Lab Sample ID: 880-11137-2 MSD

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: BH-2 (1'-2')

Prep Type: Total/NA

Prep Batch: 18968

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.06313	F1	mg/Kg		63	70 - 130	7	35
Toluene	<0.00198	U F1	0.100	0.06855	F1	mg/Kg		69	70 - 130	2	35
Ethylbenzene	<0.00198	U F1	0.100	0.06414	F1	mg/Kg		64	70 - 130	8	35
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.1322	F1	mg/Kg		66	70 - 130	9	35
o-Xylene	<0.00198	U	0.100	0.07000		mg/Kg		70	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

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

Lab Sample ID: MB 880-19009/1-A

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19009

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		02/10/22 09:33	02/10/22 11:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 11:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	02/10/22 09:33	02/10/22 11:37	1
o-Terphenyl	76		70 - 130	02/10/22 09:33	02/10/22 11:37	1

Lab Sample ID: LCS 880-19009/2-A

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19009

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	968.5		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	907.9		mg/Kg		91	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-19009/2-A

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19009

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: LCSD 880-19009/3-A

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19009

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	957.3		mg/Kg		96	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	868.6		mg/Kg		87	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-11100-A-1-E MS

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19009

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	842.4		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1000	704.7	F1	mg/Kg		66	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	66	S1-	70 - 130
o-Terphenyl	56	S1-	70 - 130

Lab Sample ID: 880-11100-A-1-F MSD

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19009

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	828.2		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	694.6	F1	mg/Kg		65	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	64	S1-	70 - 130
o-Terphenyl	55	S1-	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-19033/1-A

Matrix: Solid

Analysis Batch: 19108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19033

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		02/10/22 10:52	02/11/22 11:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 10:52	02/11/22 11:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 10:52	02/11/22 11:21	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				02/10/22 10:52	02/11/22 11:21	1
o-Terphenyl	79		70 - 130				02/10/22 10:52	02/11/22 11:21	1

Lab Sample ID: LCS 880-19033/2-A

Matrix: Solid

Analysis Batch: 19108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	958.5		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	926.2		mg/Kg		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	97		70 - 130				
o-Terphenyl	101		70 - 130				

Lab Sample ID: LCSD 880-19033/3-A

Matrix: Solid

Analysis Batch: 19108

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19033

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	994.8		mg/Kg		99	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	932.0		mg/Kg		93	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	96		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: 880-11137-1 MS

Matrix: Solid

Analysis Batch: 19108

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

Prep Type: Total/NA

Prep Batch: 19033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	1000	869.0		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	934.4		mg/Kg		93	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-11137-1 MS

Matrix: Solid

Analysis Batch: 19108

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

Prep Type: Total/NA

Prep Batch: 19033

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 880-11137-1 MSD

Matrix: Solid

Analysis Batch: 19108

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

Prep Type: Total/NA

Prep Batch: 19033

	Sample	Sample	Spike	MSD	MSD				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	998	1101	F2	mg/Kg		108	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1046		mg/Kg		105	70 - 130	11	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	78		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19064/1-A

Matrix: Solid

Analysis Batch: 19435

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			02/15/22 17:31	1	

Lab Sample ID: LCS 880-19064/2-A

Matrix: Solid

Analysis Batch: 19435

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	255.9		mg/Kg		102	90 - 110			

Lab Sample ID: LCSD 880-19064/3-A

Matrix: Solid

Analysis Batch: 19435

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	255.3		mg/Kg		102	90 - 110	0	20	

Lab Sample ID: 880-11137-2 MS

Matrix: Solid

Analysis Batch: 19435

Client Sample ID: BH-2 (1'-2')

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	372		249	620.6		mg/Kg		100	90 - 110		

Eurofins Midland

QC Sample Results

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-11137-2 MSD					Client Sample ID: BH-2 (1'-2')							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 19435												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	372		249	635.1		mg/Kg		106	90 - 110	2	20	

QC Association Summary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 18968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11137-1	BH-2 (0'-1')	Total/NA	Solid	5035	
880-11137-2	BH-2 (1'-2')	Total/NA	Solid	5035	
880-11137-3	BH-2 (2'-3')	Total/NA	Solid	5035	
880-11137-4	BH-2 (3'-4')	Total/NA	Solid	5035	
MB 880-18968/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18968/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18968/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11137-2 MS	BH-2 (1'-2')	Total/NA	Solid	5035	
880-11137-2 MSD	BH-2 (1'-2')	Total/NA	Solid	5035	

Analysis Batch: 19027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11137-1	BH-2 (0'-1')	Total/NA	Solid	8021B	18968
880-11137-2	BH-2 (1'-2')	Total/NA	Solid	8021B	18968
880-11137-3	BH-2 (2'-3')	Total/NA	Solid	8021B	18968
880-11137-4	BH-2 (3'-4')	Total/NA	Solid	8021B	18968
MB 880-18968/5-A	Method Blank	Total/NA	Solid	8021B	18968
LCS 880-18968/1-A	Lab Control Sample	Total/NA	Solid	8021B	18968
LCSD 880-18968/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18968
880-11137-2 MS	BH-2 (1'-2')	Total/NA	Solid	8021B	18968
880-11137-2 MSD	BH-2 (1'-2')	Total/NA	Solid	8021B	18968

Analysis Batch: 19290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11137-1	BH-2 (0'-1')	Total/NA	Solid	Total BTEX	
880-11137-2	BH-2 (1'-2')	Total/NA	Solid	Total BTEX	
880-11137-3	BH-2 (2'-3')	Total/NA	Solid	Total BTEX	
880-11137-4	BH-2 (3'-4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 18981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11137-4	BH-2 (3'-4')	Total/NA	Solid	8015B NM	19009
MB 880-19009/1-A	Method Blank	Total/NA	Solid	8015B NM	19009
LCS 880-19009/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19009
LCSD 880-19009/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19009
880-11100-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	19009
880-11100-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	19009

Prep Batch: 19009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11137-4	BH-2 (3'-4')	Total/NA	Solid	8015NM Prep	
MB 880-19009/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19009/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19009/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11100-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-11100-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

GC Semi VOA

Prep Batch: 19033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11137-1	BH-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-11137-2	BH-2 (1'-2')	Total/NA	Solid	8015NM Prep	
880-11137-3	BH-2 (2'-3')	Total/NA	Solid	8015NM Prep	
MB 880-19033/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19033/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19033/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11137-1 MS	BH-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-11137-1 MSD	BH-2 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 19108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11137-1	BH-2 (0-1')	Total/NA	Solid	8015B NM	19033
880-11137-2	BH-2 (1'-2')	Total/NA	Solid	8015B NM	19033
880-11137-3	BH-2 (2'-3')	Total/NA	Solid	8015B NM	19033
MB 880-19033/1-A	Method Blank	Total/NA	Solid	8015B NM	19033
LCS 880-19033/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19033
LCSD 880-19033/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19033
880-11137-1 MS	BH-2 (0-1')	Total/NA	Solid	8015B NM	19033
880-11137-1 MSD	BH-2 (0-1')	Total/NA	Solid	8015B NM	19033

Analysis Batch: 19143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11137-4	BH-2 (3'-4')	Total/NA	Solid	8015 NM	

Analysis Batch: 19517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11137-1	BH-2 (0-1')	Total/NA	Solid	8015 NM	
880-11137-2	BH-2 (1'-2')	Total/NA	Solid	8015 NM	
880-11137-3	BH-2 (2'-3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 19064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11137-1	BH-2 (0-1')	Soluble	Solid	DI Leach	
880-11137-2	BH-2 (1'-2')	Soluble	Solid	DI Leach	
880-11137-3	BH-2 (2'-3')	Soluble	Solid	DI Leach	
880-11137-4	BH-2 (3'-4')	Soluble	Solid	DI Leach	
MB 880-19064/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19064/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19064/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11137-2 MS	BH-2 (1'-2')	Soluble	Solid	DI Leach	
880-11137-2 MSD	BH-2 (1'-2')	Soluble	Solid	DI Leach	

Analysis Batch: 19435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11137-1	BH-2 (0-1')	Soluble	Solid	300.0	19064
880-11137-2	BH-2 (1'-2')	Soluble	Solid	300.0	19064
880-11137-3	BH-2 (2'-3')	Soluble	Solid	300.0	19064
880-11137-4	BH-2 (3'-4')	Soluble	Solid	300.0	19064
MB 880-19064/1-A	Method Blank	Soluble	Solid	300.0	19064

Eurofins Midland

QC Association Summary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 19435 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-19064/2-A	Lab Control Sample	Soluble	Solid	300.0	19064
LCSD 880-19064/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19064
880-11137-2 MS	BH-2 (1'-2')	Soluble	Solid	300.0	19064
880-11137-2 MSD	BH-2 (1'-2')	Soluble	Solid	300.0	19064

Lab Chronicle

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-11137-1

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

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	18968	02/10/22 08:33	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	19027	02/10/22 17:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19033	02/10/22 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/11/22 12:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		1			19435	02/15/22 19:53	CH	XEN MID

Client Sample ID: BH-2 (1'-2')

Lab Sample ID: 880-11137-2

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	18968	02/10/22 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/10/22 16:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19033	02/10/22 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/11/22 15:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		1			19435	02/15/22 20:01	CH	XEN MID

Client Sample ID: BH-2 (2'-3')

Lab Sample ID: 880-11137-3

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

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	18968	02/10/22 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/10/22 17:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19517	02/15/22 20:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19033	02/10/22 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19108	02/11/22 15:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		1			19435	02/15/22 20:28	CH	XEN MID

Client Sample ID: BH-2 (3'-4')

Lab Sample ID: 880-11137-4

Date Collected: 02/08/22 00:00

Matrix: Solid

Date Received: 02/09/22 16:23

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	18968	02/10/22 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/10/22 18:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

Client Sample ID: BH-2 (3'-4')
Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:23

Lab Sample ID: 880-11137-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			19143	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 20:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		1			19435	02/15/22 20:37	CH	XEN MID

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

Accreditation/Certification Summary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: NT Global

Job ID: 880-11137-1

Project/Site: Ironhouse 24 State Com #002H

SDG: Lea Co, NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: NT Global
Project/Site: Ironhouse 24 State Com #002H

Job ID: 880-11137-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-11137-1	BH-2 (0-1')	Solid	02/08/22 00:00	02/09/22 16:23
880-11137-2	BH-2 (1'-2')	Solid	02/08/22 00:00	02/09/22 16:23
880-11137-3	BH-2 (2'-3')	Solid	02/08/22 00:00	02/09/22 16:23
880-11137-4	BH-2 (3'-4')	Solid	02/08/22 00:00	02/09/22 16:23

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



Chain of Custody

Project Manager:	Gordon Banks	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	701 Tradewinds BLVD	Address:	
City, State ZIP:	Midland, TX 79706	City, State ZIP:	
Phone:	432-819-0263	Email:	NTG Midland

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

ANALYSIS REQUEST				Preservative Codes	
Project Name:	Ironhouse 24 State Com #002H	Turn Around		None: NO	DI Water: H ₂ O
Project Number:	214799	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Cool: Cool	MeOH: Me
Project Location	Lea Co, NM	Due Date:	Standard	HCL: HC	HNO ₃ : HN
Sampler's Name:	NH/DW	TAT starts the day received by the lab, if received by 4:30pm		H ₂ SO ₄ : H ₂	NaOH: Na
PO #:				H ₃ PO ₄ : HP	
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	1		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	10.2		
Total Containers:		Corrected Temperature:	10.3		
Parameters			Code		
BTEX 8021B					
H 8015M (GRO + DRO + MRO)					
Chloride 300.0					
HOLD					

[illegible]

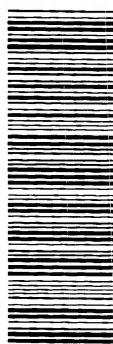
Additoinal Comments:

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Nutkar</i>	<i>[Signature]</i>	2/9/22 10:23 ²			
3		4			
5		6			

Revised Date 05/01/2020 Rev. 2020.

880-11137 Chain of Custody

Page 1 of 1

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-11137-1

SDG Number: Lea Co, NM

Login Number: 11137

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 119271

CONDITIONS

Operator: Catena Resources Operating, LLC 1001 Fannin Street Houston, TX 77002	OGRID: 328449
	Action Number: 119271
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Adequate delineation has not been achieved with boring BH-2. Please ensure release area is sufficiently delineated and remediated per 19.15.29 NMAC criteria during implementation of Remediation Work Plan.	7/5/2022