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

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☐ Final Report

Name of Company EOG Resources, Inc.	Contact Zane Kurtz
Address 5509 Champions Drive, Midland, TX 79706	Telephone No. (432) 686-3667
Facility Name Thor 21 CTB	Facility Type CTB

Surface Owner Fee	Mineral Owner Fee	API No. 30-025-42727

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	21	26S	33E	538	South	460	East	Lea

Latitude 32.023207 **Longitude** -103.570207 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 90 bbls	Volume Recovered 70
Source of Release 24" gasket	Date and Hour of Occurrence unknown	Date and Hour of Discovery 4/22/18 1:56 am
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The 24" gasket from the flange to the manual gate valve ruptured causing the flanged connection to leak. Impacted soil in the area of the release will be excavated and soil samples will be collected for laboratory analysis. Vertical and horizontal delineation of the impacted soil will be performed and a work plan for remediation will be prepared for approval by NMOCD.

Describe Area Affected and Cleanup Action Taken.*
Area affected is just east of Thor CTB. Impacted soils to be scraped and disposed of.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: A K Branden as agent for	OIL CONSERVATION DIVISION
Printed Name: Zane Kurtz	Approved by Environmental Specialist:
Title: Sr. Safety Environmental Rep., EOG Resources	Approval Date: / Expiration Date:
E-mail Address: sane_kurtz@eogresources.com	Conditions of Approval: / Attached ☐
Date: 4/23/2018 Phone:432-425-2023	

Attach Additional Sheets If Necessary

Incident ID	
District RP	1RP-5026
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?	110 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-5026
Facility ID	
Application ID	

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

Printed Name: James Kennedy Title: Environmental Specialist

Signature: James Kennedy Date: 5/6//2021

email: James_Kennedy@eogresources.com Telephone: (432) 848-9146

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-5026
Facility ID	
Application ID	

Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☑ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☑ Description of remediation activities

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

Printed Name: James Kennedy Title: (432) 848-9146

Signature: James Kennedy Date: 5/6/2021

email: James_Kennedy@eogresources.com Telephone: (432) 848-9146

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Nelson Velez Date: 01/07/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

Site Information

Closure Report
Thor 21 CTB
Lea County, New Mexico
Unit P Sec 21 T26S R33E
1RP-5026
32.023206°, -103.570227°

Produced Water Release
Source: Gasket failure on gate valve
Release Date: 04/22/2018
Volume Released: 90 bbls/PW
Volume Recovered: 70 bbls/PW

Prepared for:
EOG Resources
5509 Champions Dr.
Midland, TX 79706

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

TABLE OF CONTENTS

FIGURES

TABLES/PHOTOLOG

APPENDICES

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

May 6, 2021

Mr. Bradford Billings
New Mexico Oil Conservation Division
5200 Oakland Ave N.E Suite100
Albuquerque, NM 87113

Re: Closure Report
Thor 21 CTB 1RP-5026
EOG Resources Inc.
Site Location: Unit P, S21, T26S, R33E
(Lat 32.023206º, Long -103.570207º)
Lea County, New Mexico

To whom it may concern:

On behalf of EOG Resources Inc. (EOG), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment activities for the Thor 21 CTB 1RP-5026. The site is located at 32.023206 º, -103.570207º within Unit P, S21, T26S, R33E, and approximately 22.79 miles southwest of Jal, New Mexico, in Lea County (Figures 1 and 2).

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on April 22, 2018. It resulted in the release of approximately 90 barrels of produced water due to a gasket failure of the gate valve. A vac truck was utilized, and 70 barrels of fluids were recovered. The impacted area measured approximately 95' x 20', as shown on Figure 3. ~~The initial C-141 form is attached in Appendix A.~~ N V

Site Characterization

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineer's and USGS databases, there are no known water sources within ½ miles radius of the location. The nearest identified well is located approximately 0.64 miles southeast of the site in S21, T26S, R33E. The well has a reported depth to groundwater of 110 feet below ground surface (ft bgs). A copy of the associated *Point of Diversion Summary* report is attached in Appendix B.

Regulatory Criteria

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

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.

- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride 600 mg/kg

Site Assessment

On April 14, 2021, NTGE conducted site assessment activities to assess soil impacts resulting from the release. A total of nine sample points were advanced to depths ranging 0 – 0.5 ft bgs within and surrounding the release area to assess the vertical and horizontal extent of potential impacts. The soil sample locations are shown on figure 3.

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

All samples are below the NMOCD regulatory criteria for TPH, BTEX, and chlorides based on the analytical results.

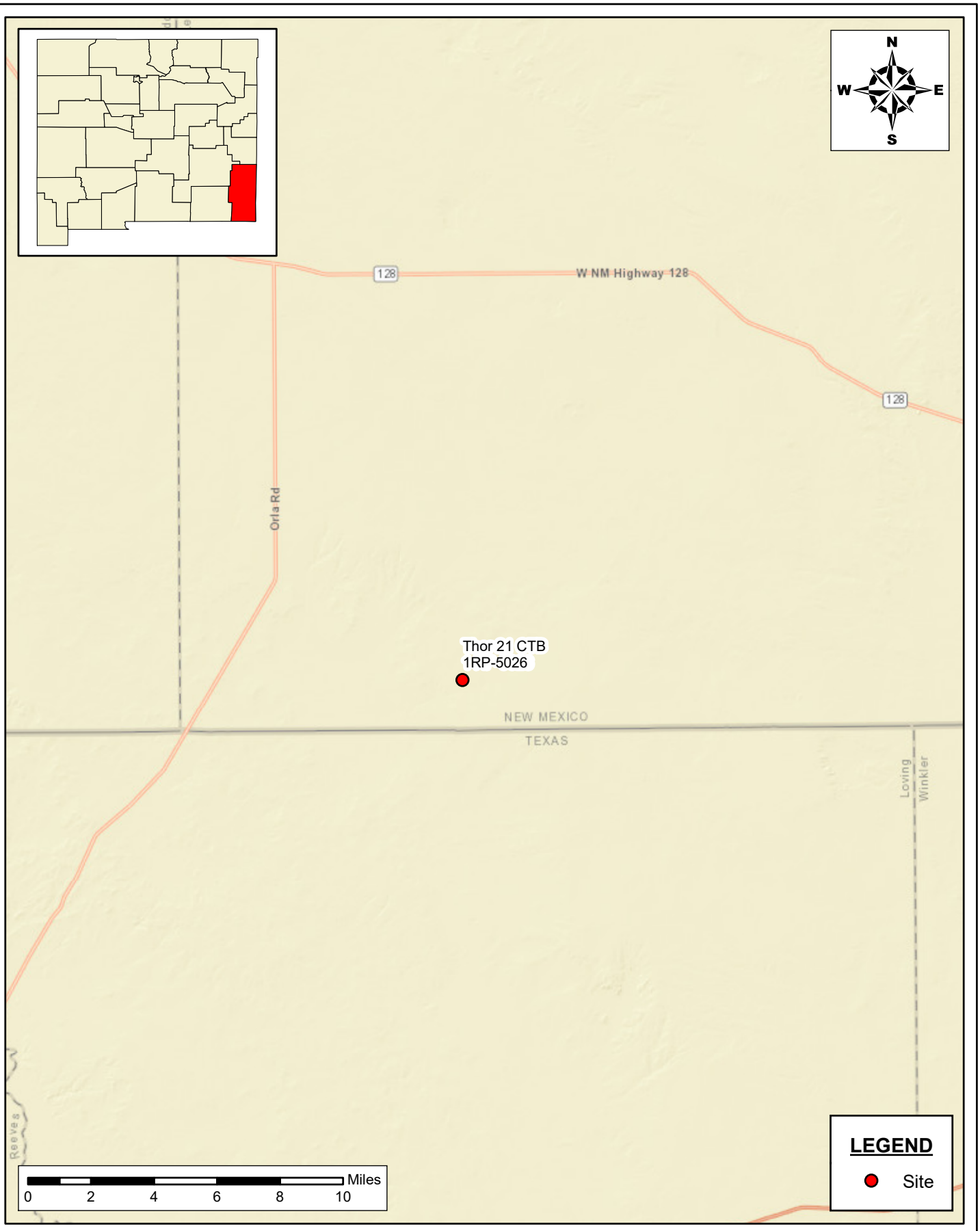
Conclusions

Based on the finding of the assessment and the analytical results, no further actions are required at the site. The final C-141 is attached, and EOG formally requests closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-0263.

Sincerely,
NTG Environmental

Mike Carmona
Senior Project Manager

Figures



SITE LOCATION MAP
EOG RESOURCES
THOR 21 CTB 1RP-5026
LEA COUNTY, NM
32.023206, -103.570217

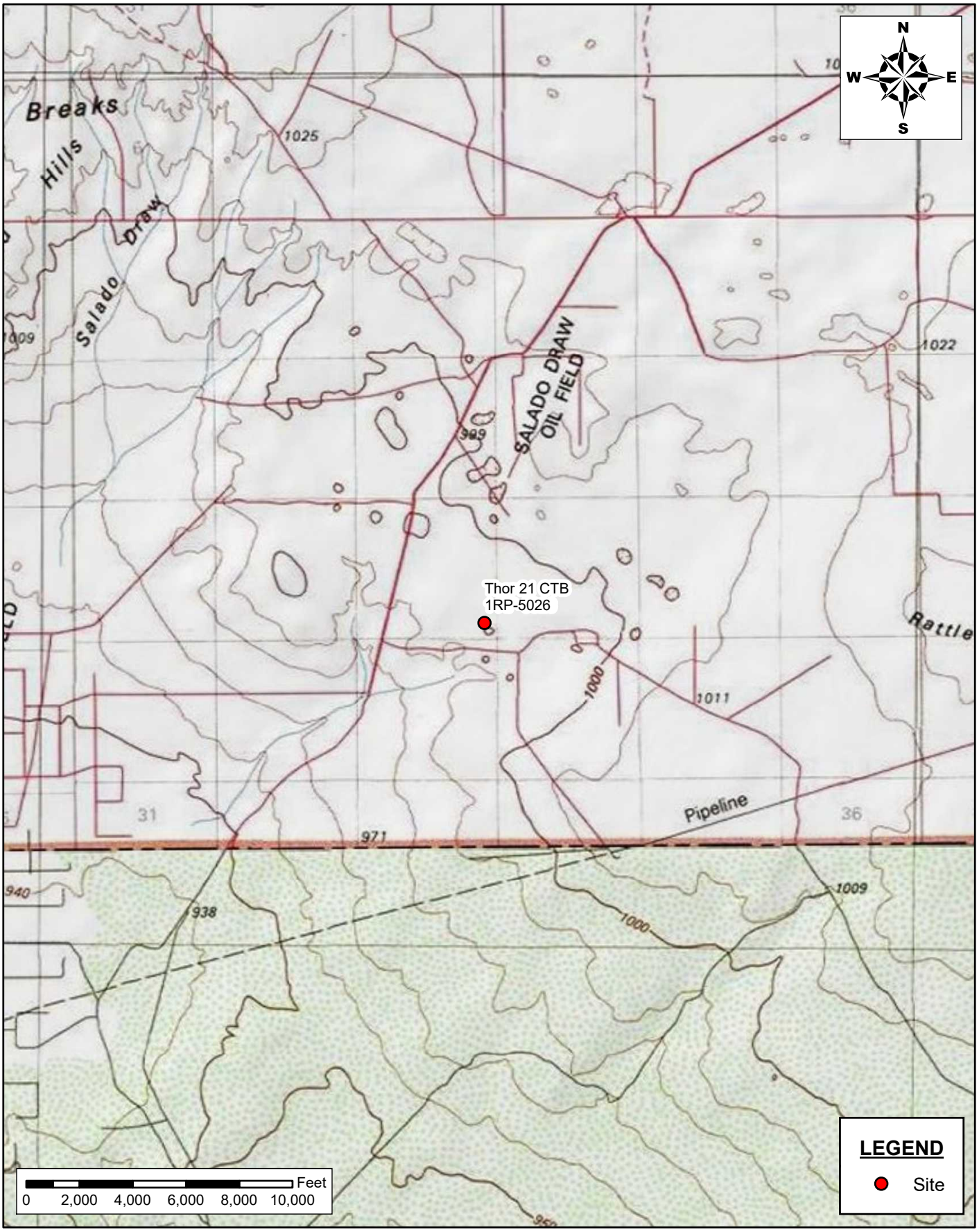
SCALE: AS SHOWN | DATE: 04/15/2021 | PROJECT #: 214124

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 2017
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1

Document Path: P:\2021 PROJECTS\EOG\214124 - Thor 21 #705H 1RP-5026\7 - Figures\GIS\Geodatabase\Figure 1_04152021.mxd



AREA MAP
EOG RESOURCES
THOR 21 CTB 1RP-5026
LEA COUNTY, NM
32.023206, -103.570217

SCALE: AS SHOWN | DATE: 04/15/2021 | PROJECT #: 214124

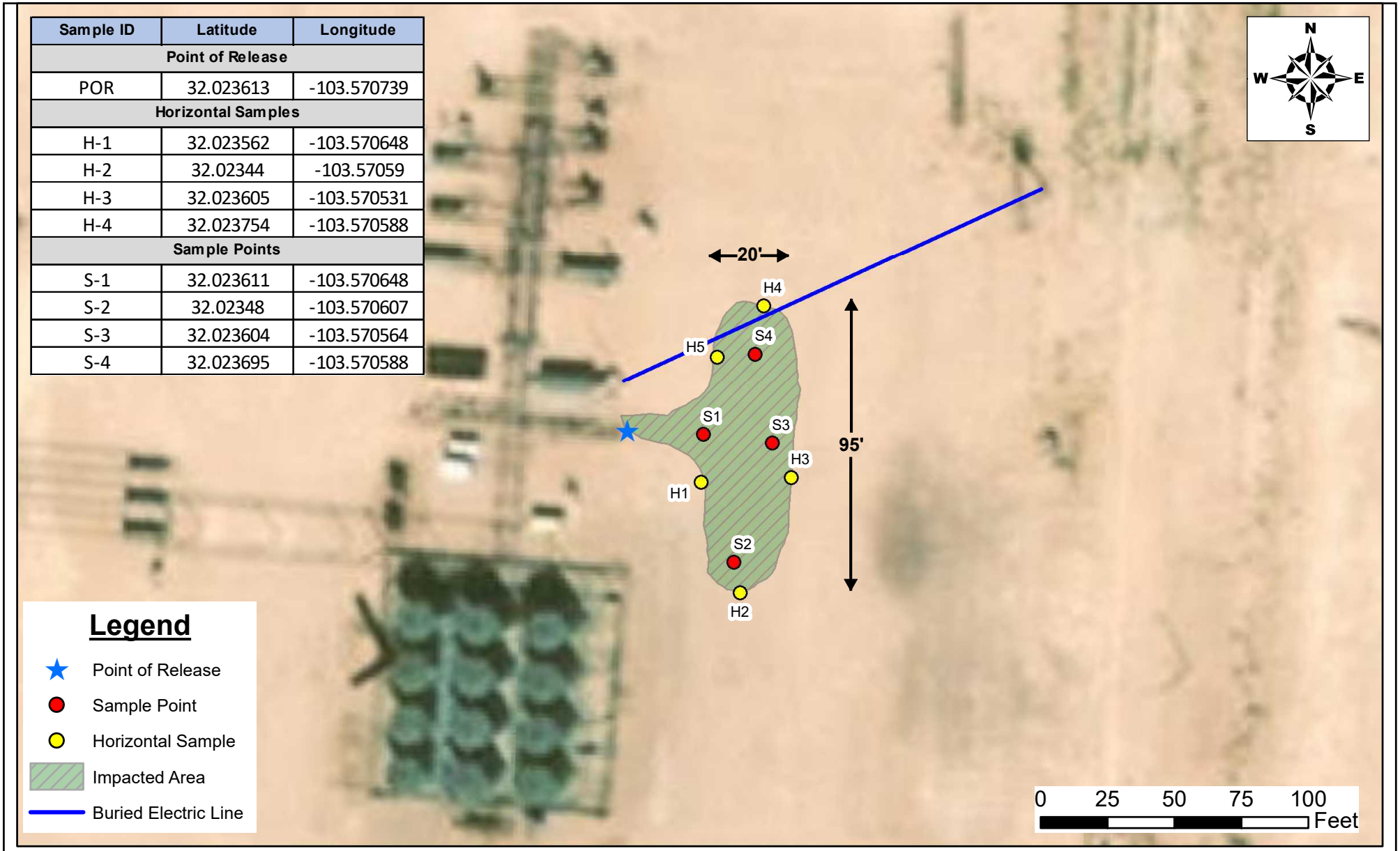
New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

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

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1

Document Path: P:\2021 PROJECTS\EOG\214124 - Thor 21 #705H 1RP-5026\7 - Figures\GIS\Geodatabase\Figure 2_04152021.mxd

Sample ID	Latitude	Longitude
Point of Release		
POR	32.023613	-103.570739
Horizontal Samples		
H-1	32.023562	-103.570648
H-2	32.02344	-103.57059
H-3	32.023605	-103.570531
H-4	32.023754	-103.570588
Sample Points		
S-1	32.023611	-103.570648
S-2	32.02348	-103.570607
S-3	32.023604	-103.570564
S-4	32.023695	-103.570588



1 of 1

SHEET NUMBER

FIGURE 3

DRAWING NUMBER

SAMPLE LOCATION MAP
THOR 21 #705H 1RP-5026
EOG RESOURCES INC
LEA COUNTY, NEW MEXICO

SCALE: AS SHOWN | DATE: 04/29/2021 | PROJECT #: 214124

New Tech Global Environmental, LLC
701 Tradewinds Blvd, Suite C
Midland, Texas 79707
T - 432.685.3898
F - 281.872.4521
Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps and Data 2017 (DigitalGlobe 2016 0.5m Digital Orthophoto)
2. Map Projection: NAD 1983

Tables

Table 1
EOG Resources
Thor 21 CTB
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						
S-1	4/14/2021	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	20.2
S-2	4/14/2021	0-0.5	<50.0	91.7	<50.0	91.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	250
S-3	4/14/2021	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	12.8
S-4	4/14/2021	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	26.7
H-1	4/14/2021	0-0.5	65.4	<50.0	<50.0	65.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	72.8
H-2	4/14/2021	0-0.5	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	113
H-3	4/14/2021	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.33
H-4	4/14/2021	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	31.0
H-5	4/14/2021	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	75.3
Regulatory Limits						**100 mg/kg**	**10 mg/kg**	-	-	-	**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed

A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

Photo Log

PHOTOGRAPHIC LOG

EOG Resources

Photograph No. 1

Facility: Thor 21 CTB 1RP-5026

County: Lea County, New Mexico

Description:
View of sampled area at the point of release.

Photograph No. 2

Facility: Thor 21 CTB 1RP-5026

County: Lea County, New Mexico

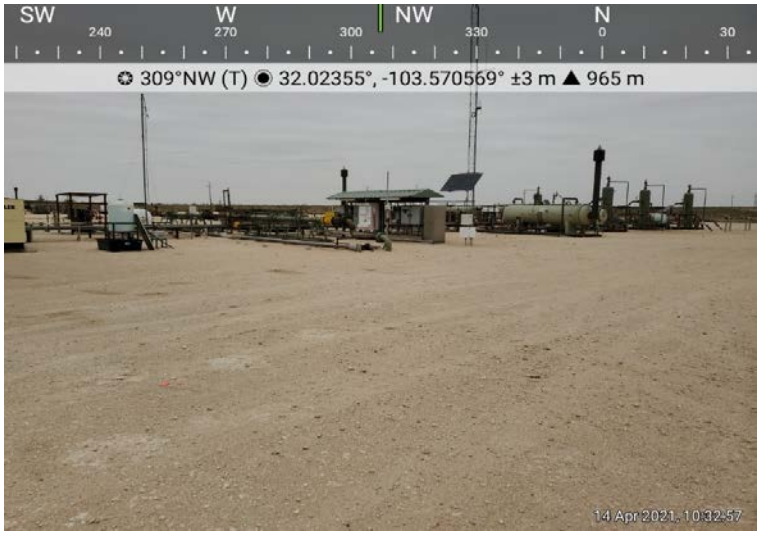
Description:
View of sampled release area.

Photograph No. 3

Facility: Thor 21 CTB 1RP-5026

County: Lea County, New Mexico

Description:
View of sampled area at the point of release



Form C-141 moved to front of document - 01/07/2022 NV

Appendix A

Appendix B

Low Karst

EOG Resources
Thor 21 CTB

Legend
- EOG - Thor 21 CTB
- LOW

2

EOG - Thor 21 CTB

J-2

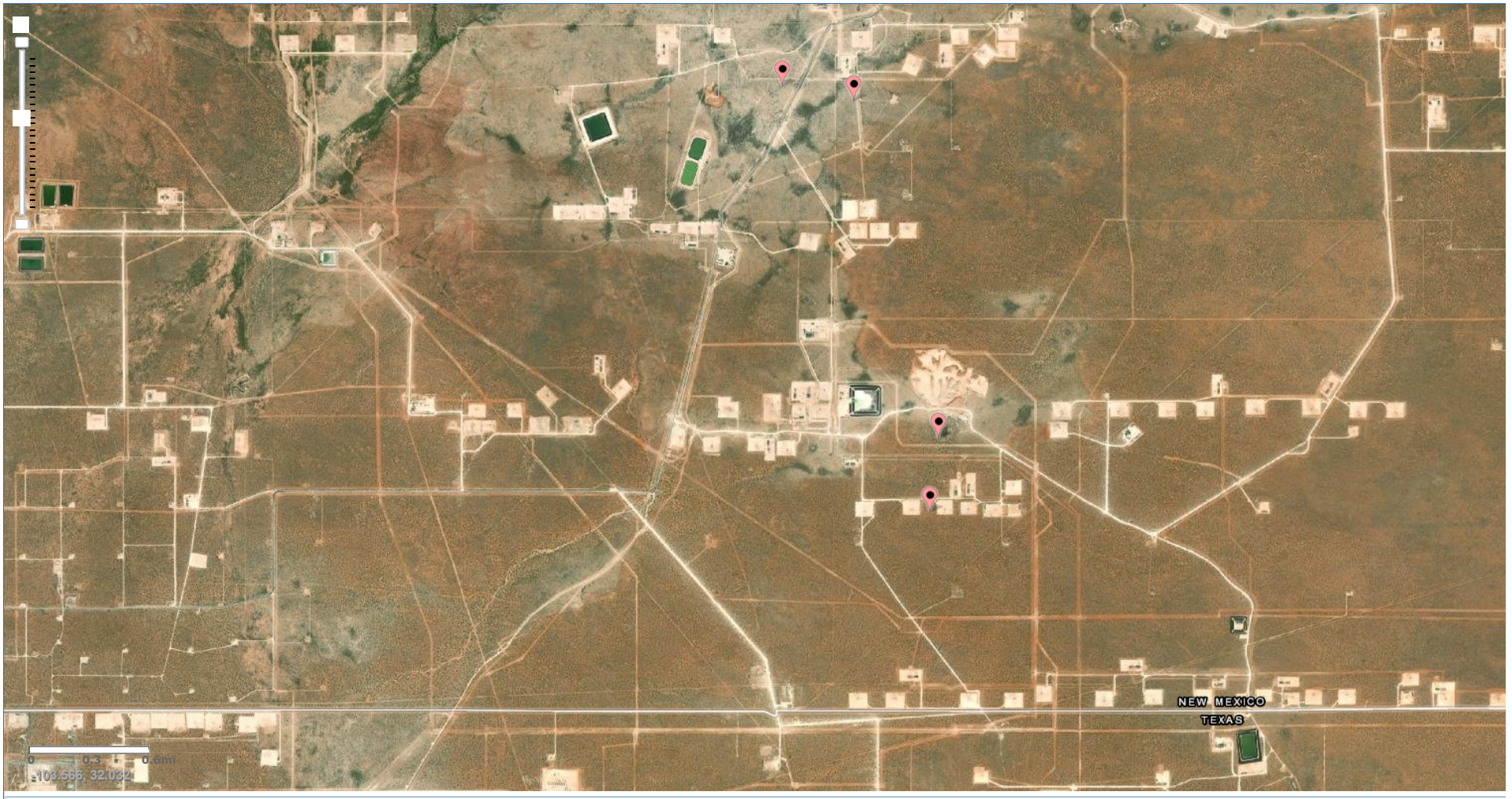
Google Earth

N

2000 ft

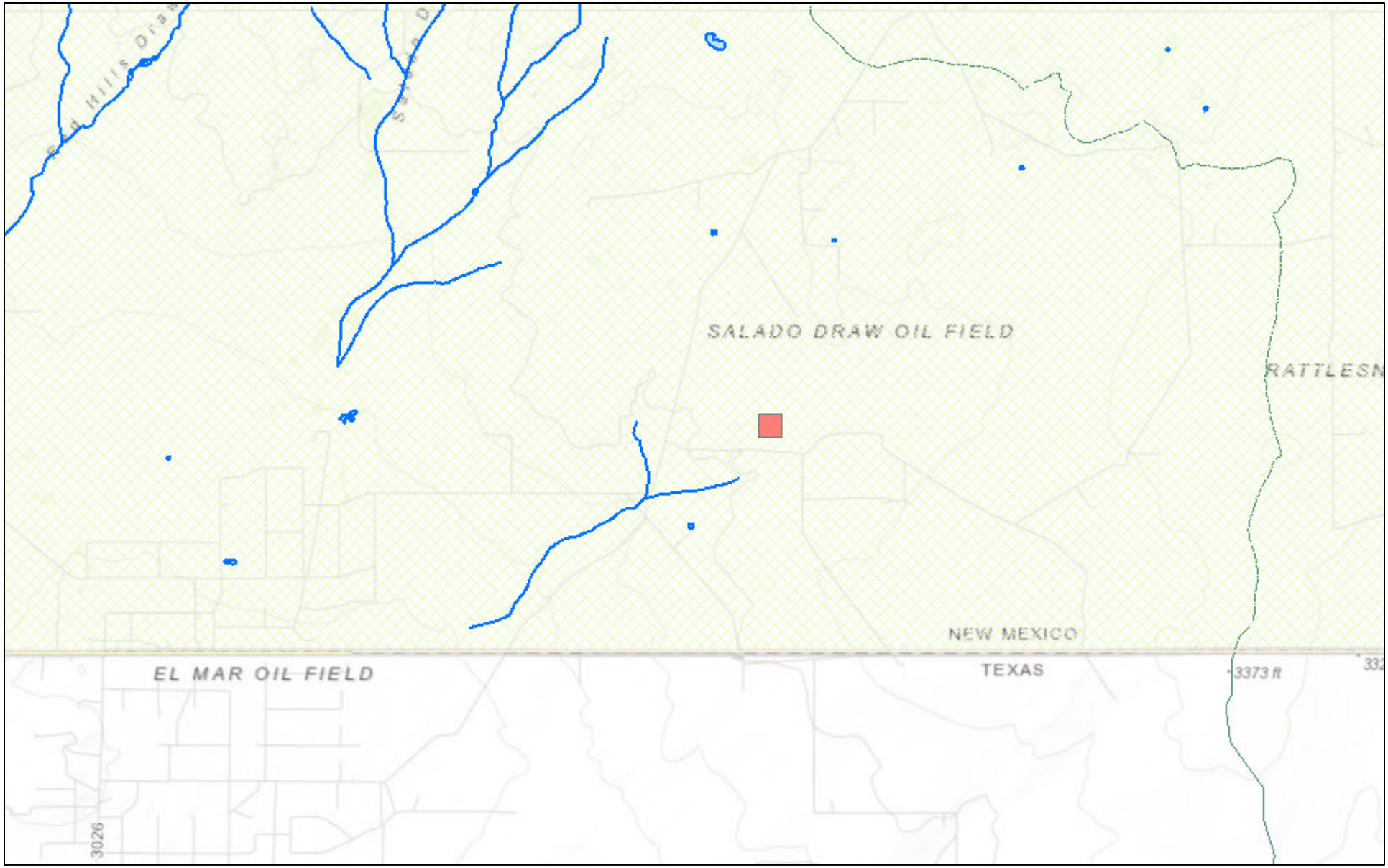
USGS science for a changing world

National Water Information System: Mapper



Site Information

New Mexico NFHL Data



April 15, 2021

1:72,224

0 0.5 1 2 mi

0 1 2 4 km

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

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

Nearest Water Well

EOG Resources
Thor 21 CTB

Legend

- 0.50
- 0.64 Miles
- 0.68 Miles
- 0.69 Miles
- EOG - Thor 21 CTB
- NMSEO Water Well
- USGS Water Wall

EOG - Thor 21 CTB

110' - Drilled 2012

W.W 125' - 1992

76.6' - Drilled 2001

2

J-2

N

2000 ft

Google Earth

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02270	CUB	LE	1	1	2	27	26S	33E	636063	3543722	150	125	25
C 02273	CUB	LE		1	2	21	26S	33E	634549	3545134*	160	120	40
C 02285 POD1	CUB	LE	1	4	4	03	26S	33E	636613	3548855	220	220	0
C 02286	CUB	LE	3	4	4	03	26S	33E	636470	3548714	220	175	45
C 02287	C	LE	3	4	4	03	26S	33E	636427	3548708	220		
C 02288	CUB	LE	4	4	4	03	26S	33E	636646	3548758	220	180	40
C 02289	CUB	LE	4	4	4	03	26S	33E	636612	3548675*	200	160	40
C 02290	CUB	LE	4	4	4	03	26S	33E	636538	3548770	200	160	40
C 02293	CUB	LE	2	2	1	14	26S	33E	637501	3546975	200	135	65
C 02294	CUB	LE	4	4	3	11	26S	33E	637465	3547003	200	145	55
C 02295	CUB	LE	2	2	4	12	26S	33E	639865	3547624	250	200	50
C 03577 POD1	CUB	LE	3	3	3	22	26S	33E	636010	3543771	750	110	640
C 03596 POD1	C	LE	3	3	4	22	26S	33E	636017	3543756	225		

Average Depth to Water: **157 feet**
Minimum Depth: **110 feet**
Maximum Depth: **220 feet**

Record Count: 13

PLSS Search:

Township: 26S **Range:** 33E

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

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 03577 POD1	3	3	3	22	26S	33E	636010	3543771

Driller License: 1654 **Driller Company:** NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC

Driller Name:

Drill Start Date: 11/19/2012 **Drill Finish Date:** 11/20/2012 **Plug Date:**

Log File Date: 12/11/2012 **PCW Rcv Date:** **Source:** Shallow

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

Casing Size: 6.00 **Depth Well:** 750 feet **Depth Water:** 110 feet

Water Bearing Stratifications:

Top	Bottom	Description
95	150	Sandstone/Gravel/Conglomerate
200	710	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
180	200
690	750

Meter Number: 16570 **Meter Make:** MASTERMETER

Meter Serial Number: 6985354 **Meter Multiplier:** 100.0000

Number of Dials: 6 **Meter Type:** Diversion

Unit of Measure: Gallons **Return Flow Percent:**

Usage Multiplier: **Reading Frequency:**

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
04/01/2014	2014	123440	A	RPT		0	
07/01/2014	2014	160772	A	RPT		11.457	
10/01/2014	2014	193527	A	RPT		10.052	
12/31/2014	2014	237836	A	RPT		13.598	
02/01/2015	2015	247102	A	RPT		2.844	
03/02/2015	2015	260095	A	RPT		3.987	
04/01/2015	2015	268444	A	RPT		2.562	
04/30/2015	2015	284991	A	RPT		5.078	
05/31/2015	2015	296985	A	RPT		3.681	
07/01/2015	2015	313077	A	RPT		4.938	
08/01/2015	2015	321571	A	RPT		2.607	
08/31/2015	2015	333738	A	RPT		3.734	
10/01/2015	2015	340361	A	RPT		2.033	

****YTD Meter Amounts:**

Year	Amount
2014	35.107
2015	31.464

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02270	1	1	2	27	26S	33E	636063	3543722

Driller License: 208 **Driller Company:** VAN NOY, W.L.

Driller Name: UNKNOWN

Drill Start Date: 08/28/1992 **Drill Finish Date:** 12/31/1910 **Plug Date:**

Log File Date: 10/28/1992 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 15 GPM

Casing Size: 8.00 **Depth Well:** 150 feet **Depth Water:** 125 feet

Water Bearing Stratifications:

Top	Bottom	Description
225	265	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
205	265

Meter Number: 16561 **Meter Make:** MASTERMETER

Meter Serial Number: 8112517 **Meter Multiplier:** 100.0000

Number of Dials: 6 **Meter Type:** Diversion

Unit of Measure: Gallons **Return Flow Percent:**

Usage Multiplier: **Reading Frequency:**

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
04/01/2014	2014	132970	A	RPT		0	
07/01/2014	2014	145195	A	RPT		3.752	
10/01/2014	2014	153126	A	RPT		2.434	
12/31/2014	2014	153126	A	RPT		0	
02/01/2015	2015	153126	A	RPT		0	
03/01/2015	2015	153126	A	RPT		0	
04/01/2015	2015	153126	A	RPT		0	
05/01/2015	2015	153126	A	RPT		0	
05/31/2015	2015	153126	A	RPT		0	
07/01/2015	2015	153126	A	RPT		0	
08/01/2015	2015	153126	A	RPT		0	
10/01/2015	2015	153216	A	RPT		0.028	

****YTD Meter Amounts:**

Year	Amount
2014	6.186
2015	0.028

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320059103333501

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

USGS 320059103333501 26S.33E.27.21112

Lea County, New Mexico
Latitude 32°01'16.0", Longitude 103°33'33.9" NAD83
Land-surface elevation 3,252.00 feet above NGVD29
The depth of the well is 200 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1954-07-26		D	62610		3172.29	NGVD29	1	Z		
1954-07-26		D	62611		3173.87	NAVD88	1	Z		
1954-07-26		D	72019	79.71			1	Z		
1976-01-08		D	62610		3175.48	NGVD29	1	Z		
1976-01-08		D	62611		3177.06	NAVD88	1	Z		
1976-01-08		D	72019	76.52			1	Z		
1986-03-04		D	62610		3174.86	NGVD29	1	Z		
1986-03-04		D	62611		3176.44	NAVD88	1	Z		
1986-03-04		D	72019	77.14			1	Z		
1990-11-27		D	62610		3175.46	NGVD29	1	Z		
1990-11-27		D	62611		3177.04	NAVD88	1	Z		
1990-11-27		D	72019	76.54			1	Z		
1996-03-05		D	62610		3174.61	NGVD29	1	S		
1996-03-05		D	62611		3176.19	NAVD88	1	S		
1996-03-05		D	72019	77.39			1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
2001-02-27		D	62610		3175.40	NGVD29	1	S		
2001-02-27		D	62611		3176.98	NAVD88	1	S		
2001-02-27		D	72019	76.60			1	S		

Explanation

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

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

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2021-04-20 18:58:46 EDT
0.29 0.25 nadww02

4/20/21 4:50 PM POINT OF DIVERSION SUMMARY

4/20/21 4:49 PM POINT OF DIVERSION SUMMARY

Appendix C

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-1320-1
Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: EOG - Thor 21 CTB

For:
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Mike Carmona

JKRAMER

Authorized for release by:
4/16/2021 6:57:53 PM

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

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

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

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Laboratory Job ID: 880-1320-1
SDG: Lea Co, NM

Table of Contents

Definitions/Glossary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
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
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

Job ID: 880-1320-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-1320-1

Receipt
The samples were received on 4/15/2021 10:56 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 3.5°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-1825 and analytical batch 880-1833 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: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-1320-1
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		04/15/21 11:48	04/16/21 04:35	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		04/15/21 11:48	04/16/21 04:35	1
Ethylbenzene	<0.00199	U F1 F2	0.00199		mg/Kg		04/15/21 11:48	04/16/21 04:35	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		04/15/21 11:48	04/16/21 04:35	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		04/15/21 11:48	04/16/21 04:35	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		04/15/21 11:48	04/16/21 04:35	1
Total BTEX	<0.00398	U F1 F2	0.00398		mg/Kg		04/15/21 11:48	04/16/21 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*04/15/21 11:48*	*04/16/21 04:35*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/15/21 11:48*	*04/16/21 04:35*	*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	**65.4**		50.0		mg/Kg		04/15/21 12:00	04/15/21 16:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 16:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 16:27	1
Total TPH	**65.4**		50.0		mg/Kg		04/15/21 12:00	04/15/21 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*04/15/21 12:00*	*04/15/21 16:27*	*1*
o-Terphenyl	*94*		*70 - 130*	*04/15/21 12:00*	*04/15/21 16:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.8**		4.95		mg/Kg			04/16/21 13:06	1

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

Lab Sample ID: 880-1320-2
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

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		04/15/21 11:48	04/16/21 04:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/15/21 11:48	04/16/21 04:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/15/21 11:48	04/16/21 04:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/15/21 11:48	04/16/21 04:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/15/21 11:48	04/16/21 04:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/15/21 11:48	04/16/21 04:55	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/15/21 11:48	04/16/21 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*04/15/21 11:48*	*04/16/21 04:55*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/15/21 11:48*	*04/16/21 04:55*	*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	<50.1	U	50.1		mg/Kg		04/15/21 12:00	04/15/21 16:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-1320-2
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/15/21 12:00	04/15/21 16:48	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/15/21 12:00	04/15/21 16:48	1
Total TPH	<50.1	U	50.1		mg/Kg		04/15/21 12:00	04/15/21 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*04/15/21 12:00*	*04/15/21 16:48*	*1*
o-Terphenyl	*98*		*70 - 130*	*04/15/21 12:00*	*04/15/21 16:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		4.96		mg/Kg			04/16/21 13:11	1

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

Lab Sample ID: 880-1320-3
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

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		04/15/21 11:48	04/16/21 05:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/15/21 11:48	04/16/21 05:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/15/21 11:48	04/16/21 05:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/15/21 11:48	04/16/21 05:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/15/21 11:48	04/16/21 05:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/15/21 11:48	04/16/21 05:15	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/15/21 11:48	04/16/21 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*04/15/21 11:48*	*04/16/21 05:15*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/15/21 11:48*	*04/16/21 05:15*	*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		04/15/21 12:00	04/15/21 17:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 17:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 17:30	1
Total TPH	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*04/15/21 12:00*	*04/15/21 17:30*	*1*
o-Terphenyl	*106*		*70 - 130*	*04/15/21 12:00*	*04/15/21 17:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.33**		4.99		mg/Kg			04/16/21 13:16	1

Client Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-1320-4
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

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		04/15/21 11:48	04/16/21 05:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/15/21 11:48	04/16/21 05:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/15/21 11:48	04/16/21 05:36	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/15/21 11:48	04/16/21 05:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/15/21 11:48	04/16/21 05:36	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/15/21 11:48	04/16/21 05:36	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		04/15/21 11:48	04/16/21 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/15/21 11:48*	*04/16/21 05:36*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/15/21 11:48*	*04/16/21 05:36*	*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		04/15/21 12:00	04/15/21 17:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 17:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 17:51	1
Total TPH	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*04/15/21 12:00*	*04/15/21 17:51*	*1*
o-Terphenyl	*104*		*70 - 130*	*04/15/21 12:00*	*04/15/21 17:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.0**		4.97		mg/Kg			04/16/21 13:22	1

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

Lab Sample ID: 880-1320-5
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/15/21 11:48	04/16/21 05:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/15/21 11:48	04/16/21 05:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/15/21 11:48	04/16/21 05:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/15/21 11:48	04/16/21 05:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/15/21 11:48	04/16/21 05:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/15/21 11:48	04/16/21 05:56	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/15/21 11:48	04/16/21 05:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*04/15/21 11:48*	*04/16/21 05:56*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/15/21 11:48*	*04/16/21 05:56*	*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		04/15/21 12:00	04/15/21 18:13	1

Client Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

Client Sample ID: H-5 (0-6")
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

Lab Sample ID: 880-1320-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/15/21 12:00	04/15/21 18:13	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/15/21 12:00	04/15/21 18:13	1
Total TPH	<49.9	U	49.9		mg/Kg		04/15/21 12:00	04/15/21 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*04/15/21 12:00*	*04/15/21 18:13*	*1*
o-Terphenyl	*108*		*70 - 130*	*04/15/21 12:00*	*04/15/21 18:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.3**		4.98		mg/Kg			04/16/21 13:27	1

Surrogate Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-1320-1	H-1 (0-6")	102	107										
880-1320-1 MS	H-1 (0-6")	120	101										
880-1320-1 MSD	H-1 (0-6")	115	101										
880-1320-2	H-2 (0-6")	115	109										
880-1320-3	H-3 (0-6")	119	92										
880-1320-4	H-4 (0-6")	105	108										
880-1320-5	H-5 (0-6")	114	104										
LCS 880-1825/1-A	Lab Control Sample	103	105										
LCSD 880-1825/2-A	Lab Control Sample Dup	100	106										
MB 880-1825/5-A	Method Blank	99	102										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-1320-1	H-1 (0-6")	105	94										
880-1320-2	H-2 (0-6")	107	98										
880-1320-3	H-3 (0-6")	114	106										
880-1320-4	H-4 (0-6")	109	104										
880-1320-5	H-5 (0-6")	116	108										
LCS 880-1816/2-A	Lab Control Sample	108	93										
LCSD 880-1816/3-A	Lab Control Sample Dup	103	88										
MB 880-1816/1-A	Method Blank	101	99										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1825/5-A
Matrix: Solid
Analysis Batch: 1833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/15/21 11:48	04/16/21 04:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/15/21 11:48	04/16/21 04:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/15/21 11:48	04/16/21 04:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/15/21 11:48	04/16/21 04:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/15/21 11:48	04/16/21 04:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/15/21 11:48	04/16/21 04:06	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/15/21 11:48	04/16/21 04:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/15/21 11:48*	*04/16/21 04:06*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/15/21 11:48*	*04/16/21 04:06*	*1*

Lab Sample ID: LCS 880-1825/1-A
Matrix: Solid
Analysis Batch: 1833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1825

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08840		mg/Kg		88	70 - 130		
Toluene			0.100	0.09573		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09918		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.2011		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.09991		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-1825/2-A
Matrix: Solid
Analysis Batch: 1833

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1825

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08970		mg/Kg		90	70 - 130	1	35
Toluene			0.100	0.09431		mg/Kg		94	70 - 130	1	35
Ethylbenzene			0.100	0.09733		mg/Kg		97	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1978		mg/Kg		99	70 - 130	2	35
o-Xylene			0.100	0.09787		mg/Kg		98	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-1320-1 MS
Matrix: Solid
Analysis Batch: 1833

Client Sample ID: H-1 (0-6")
Prep Type: Total/NA
Prep Batch: 1825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F1	0.101	0.01428	F1	mg/Kg		14	70 - 130		

QC Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-1320-1 MS
Matrix: Solid
Analysis Batch: 1833

Client Sample ID: H-1 (0-6")
Prep Type: Total/NA
Prep Batch: 1825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00199	U F1 F2	0.101	0.01201	F1	mg/Kg		12	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.101	0.01429	F1	mg/Kg		14	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.201	0.03424	F1	mg/Kg		17	70 - 130
o-Xylene	<0.00199	U F1 F2	0.101	0.02484	F1	mg/Kg		25	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-1320-1 MSD
Matrix: Solid
Analysis Batch: 1833

Client Sample ID: H-1 (0-6")
Prep Type: Total/NA
Prep Batch: 1825

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0990	0.01191	F1	mg/Kg		12	70 - 130	18	35
Toluene	<0.00199	U F1 F2	0.0990	0.007897	F1 F2	mg/Kg		8	70 - 130	41	35
Ethylbenzene	<0.00199	U F1 F2	0.0990	0.007502	F1 F2	mg/Kg		8	70 - 130	62	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.198	0.01797	F1 F2	mg/Kg		9	70 - 130	62	35
o-Xylene	<0.00199	U F1 F2	0.0990	0.01487	F1 F2	mg/Kg		15	70 - 130	50	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-1816/1-A
Matrix: Solid
Analysis Batch: 1818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1816

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		04/15/21 10:01	04/15/21 11:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/15/21 10:01	04/15/21 11:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/15/21 10:01	04/15/21 11:52	1
Total TPH	<50.0	U	50.0		mg/Kg		04/15/21 10:01	04/15/21 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*04/15/21 10:01*	*04/15/21 11:52*	*1*
o-Terphenyl	*99*		*70 - 130*	*04/15/21 10:01*	*04/15/21 11:52*	*1*

Lab Sample ID: LCS 880-1816/2-A
Matrix: Solid
Analysis Batch: 1818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1241		mg/Kg		124	70 - 130

QC Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-1816/2-A
Matrix: Solid
Analysis Batch: 1818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1816

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28)			1000	1079		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: LCSD 880-1816/3-A
Matrix: Solid
Analysis Batch: 1818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1816

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1101		mg/Kg		110	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1010		mg/Kg		101	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1830/1-A
Matrix: Solid
Analysis Batch: 1851

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			04/16/21 12:05	1

Lab Sample ID: LCS 880-1830/2-A
Matrix: Solid
Analysis Batch: 1851

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	258.4		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-1830/3-A
Matrix: Solid
Analysis Batch: 1851

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	256.4		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 1825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1320-1	H-1 (0-6")	Total/NA	Solid	5035	
880-1320-2	H-2 (0-6")	Total/NA	Solid	5035	
880-1320-3	H-3 (0-6")	Total/NA	Solid	5035	
880-1320-4	H-4 (0-6")	Total/NA	Solid	5035	
880-1320-5	H-5 (0-6")	Total/NA	Solid	5035	
MB 880-1825/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1825/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1825/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-1320-1 MS	H-1 (0-6")	Total/NA	Solid	5035	
880-1320-1 MSD	H-1 (0-6")	Total/NA	Solid	5035	

Analysis Batch: 1833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1320-1	H-1 (0-6")	Total/NA	Solid	8021B	1825
880-1320-2	H-2 (0-6")	Total/NA	Solid	8021B	1825
880-1320-3	H-3 (0-6")	Total/NA	Solid	8021B	1825
880-1320-4	H-4 (0-6")	Total/NA	Solid	8021B	1825
880-1320-5	H-5 (0-6")	Total/NA	Solid	8021B	1825
MB 880-1825/5-A	Method Blank	Total/NA	Solid	8021B	1825
LCS 880-1825/1-A	Lab Control Sample	Total/NA	Solid	8021B	1825
LCSD 880-1825/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1825
880-1320-1 MS	H-1 (0-6")	Total/NA	Solid	8021B	1825
880-1320-1 MSD	H-1 (0-6")	Total/NA	Solid	8021B	1825

GC Semi VOA

Prep Batch: 1816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1320-1	H-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-1320-2	H-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-1320-3	H-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-1320-4	H-4 (0-6")	Total/NA	Solid	8015NM Prep	
880-1320-5	H-5 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-1816/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1816/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1320-1	H-1 (0-6")	Total/NA	Solid	8015B NM	1816
880-1320-2	H-2 (0-6")	Total/NA	Solid	8015B NM	1816
880-1320-3	H-3 (0-6")	Total/NA	Solid	8015B NM	1816
880-1320-4	H-4 (0-6")	Total/NA	Solid	8015B NM	1816
880-1320-5	H-5 (0-6")	Total/NA	Solid	8015B NM	1816
MB 880-1816/1-A	Method Blank	Total/NA	Solid	8015B NM	1816
LCS 880-1816/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1816
LCSD 880-1816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1816

QC Association Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

HPLC/IC

Leach Batch: 1830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1320-1	H-1 (0-6")	Soluble	Solid	DI Leach	
880-1320-2	H-2 (0-6")	Soluble	Solid	DI Leach	
880-1320-3	H-3 (0-6")	Soluble	Solid	DI Leach	
880-1320-4	H-4 (0-6")	Soluble	Solid	DI Leach	
880-1320-5	H-5 (0-6")	Soluble	Solid	DI Leach	
MB 880-1830/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1830/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1830/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1320-1	H-1 (0-6")	Soluble	Solid	300.0	1830
880-1320-2	H-2 (0-6")	Soluble	Solid	300.0	1830
880-1320-3	H-3 (0-6")	Soluble	Solid	300.0	1830
880-1320-4	H-4 (0-6")	Soluble	Solid	300.0	1830
880-1320-5	H-5 (0-6")	Soluble	Solid	300.0	1830
MB 880-1830/1-A	Method Blank	Soluble	Solid	300.0	1830
LCS 880-1830/2-A	Lab Control Sample	Soluble	Solid	300.0	1830
LCSD 880-1830/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1830

Lab Chronicle

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-1320-1
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1825	04/15/21 11:48	KL	XM
Total/NA	Analysis	8021B		1	1833	04/16/21 04:35	MR	XM
Total/NA	Prep	8015NM Prep			1816	04/15/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	1818	04/15/21 16:27	AJ	XM
Soluble	Leach	DI Leach			1830	04/15/21 12:29	SC	XM
Soluble	Analysis	300.0		1	1851	04/16/21 13:06	SC	XM

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

Lab Sample ID: 880-1320-2
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1825	04/15/21 11:48	KL	XM
Total/NA	Analysis	8021B		1	1833	04/16/21 04:55	MR	XM
Total/NA	Prep	8015NM Prep			1816	04/15/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	1818	04/15/21 16:48	AJ	XM
Soluble	Leach	DI Leach			1830	04/15/21 12:29	SC	XM
Soluble	Analysis	300.0		1	1851	04/16/21 13:11	SC	XM

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

Lab Sample ID: 880-1320-3
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1825	04/15/21 11:48	KL	XM
Total/NA	Analysis	8021B		1	1833	04/16/21 05:15	MR	XM
Total/NA	Prep	8015NM Prep			1816	04/15/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	1818	04/15/21 17:30	AJ	XM
Soluble	Leach	DI Leach			1830	04/15/21 12:29	SC	XM
Soluble	Analysis	300.0		1	1851	04/16/21 13:16	SC	XM

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

Lab Sample ID: 880-1320-4
Matrix: Solid
Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1825	04/15/21 11:48	KL	XM
Total/NA	Analysis	8021B		1	1833	04/16/21 05:36	MR	XM
Total/NA	Prep	8015NM Prep			1816	04/15/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	1818	04/15/21 17:51	AJ	XM
Soluble	Leach	DI Leach			1830	04/15/21 12:29	SC	XM
Soluble	Analysis	300.0		1	1851	04/16/21 13:22	SC	XM

Lab Chronicle

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

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

Date Collected: 04/14/21 00:00
Date Received: 04/15/21 10:56

Lab Sample ID: 880-1320-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1825	04/15/21 11:48	KL	XM
Total/NA	Analysis	8021B		1	1833	04/16/21 05:56	MR	XM
Total/NA	Prep	8015NM Prep			1816	04/15/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	1818	04/15/21 18:13	AJ	XM
Soluble	Leach	DI Leach			1830	04/15/21 12:29	SC	XM
Soluble	Analysis	300.0		1	1851	04/16/21 13:27	SC	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1320-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1320-1	H-1 (0-6")	Solid	04/14/21 00:00	04/15/21 10:56	
880-1320-2	H-2 (0-6")	Solid	04/14/21 00:00	04/15/21 10:56	
880-1320-3	H-3 (0-6")	Solid	04/14/21 00:00	04/15/21 10:56	
880-1320-4	H-4 (0-6")	Solid	04/14/21 00:00	04/15/21 10:56	
880-1320-5	H-5 (0-6")	Solid	04/14/21 00:00	04/15/21 10:56	

NTG ENVIRONMENTAL

880-1320 Chain of Custody

Work Order No: 1320

4/16/2021

Page 1 of 1

Project Manager	Mike Carmona	Bill to. (if different)	James Kennedy
Company Name.	NTG Environmental	Company Name	EOG Resources
Address.	701 Tradewinds BLVD	Address.	5509 Champions Dr
City, State ZIP	Midland, TX 79706	City, State ZIP	Midland, Tx 79706
Phone.	432-813-0263	Email	James_Kennedy@eogresources

Work Order Comments

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

State of Project.

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

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name.	Thor 21 CTB	Turn Around	
Project Number	214124	☐ Routine	☑ Rush
Project Location	Lea Co, NM	Due Date	72 Hrs
Sampler's Name	CRM	TAT starts the day received by the lab, if received by 4 30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice.	(Yes) No
Received Intact:	(Yes) No	Thermometer ID	IR8
Cooler Custody Seals	Yes No (N/A)	Correction Factor	+0.5
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	3.0
Total Containers.		Corrected Temperature.	3.5

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	HOLD	Sample Comments
H-1 (0-6")	4/14/2021		X		G	1		X	X	X		
H-2 (0-6")	4/14/2021		X		G	1		X	X	X		
H-3 (0-6")	4/14/2021		X		G	1		X	X	X		
H-4 (0-6")	4/14/2021		X		G	1		X	X	X		
H-5 (0-6")	4/14/2021		X		G	1		X	X	X		

Preservative Codes

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

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		4/15/21 1056	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-1320-1
SDG Number: Lea Co, NM

Login Number: 1320
List Number: 1
Creator: Phillips, Kerianna

List Source: Eurofins Midland

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-1319-1
Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: EOG - Thor 21 CTB

For:
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Mike Carmona

JKramer

Authorized for release by:
4/16/2021 6:50:32 PM

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

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

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

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Laboratory Job ID: 880-1319-1
SDG: Lea Co, NM

Table of Contents

Definitions/Glossary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

Job ID: 880-1319-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-1319-1

Receipt
The samples were received on 4/15/2021 10:56 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 3.5°C

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

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

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

Client Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-1319-1
Matrix: Solid
Date Collected: 04/14/21 10:56
Date Received: 04/15/21 10:56

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		04/15/21 11:36	04/15/21 23:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/15/21 11:36	04/15/21 23:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/15/21 11:36	04/15/21 23:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/15/21 11:36	04/15/21 23:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/15/21 11:36	04/15/21 23:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/15/21 11:36	04/15/21 23:56	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/15/21 11:36	04/15/21 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*04/15/21 11:36*	*04/15/21 23:56*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/15/21 11:36*	*04/15/21 23:56*	*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		04/15/21 12:00	04/15/21 15:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 15:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 15:03	1
Total TPH	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*04/15/21 12:00*	*04/15/21 15:03*	*1*
o-Terphenyl	*115*		*70 - 130*	*04/15/21 12:00*	*04/15/21 15:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.2**		5.04		mg/Kg			04/16/21 12:36	1

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

Lab Sample ID: 880-1319-2
Matrix: Solid
Date Collected: 04/14/21 10:56
Date Received: 04/15/21 10:56

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		04/15/21 11:36	04/16/21 00:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/15/21 11:36	04/16/21 00:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/15/21 11:36	04/16/21 00:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/15/21 11:36	04/16/21 00:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/15/21 11:36	04/16/21 00:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/15/21 11:36	04/16/21 00:16	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/15/21 11:36	04/16/21 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*04/15/21 11:36*	*04/16/21 00:16*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/15/21 11:36*	*04/16/21 00:16*	*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		04/15/21 12:00	04/15/21 15:24	1

Client Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-1319-2
Matrix: Solid
Date Collected: 04/14/21 10:56
Date Received: 04/15/21 10:56

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)	**91.7**		50.0		mg/Kg		04/15/21 12:00	04/15/21 15:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 15:24	1
Total TPH	**91.7**		50.0		mg/Kg		04/15/21 12:00	04/15/21 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*04/15/21 12:00*	*04/15/21 15:24*	*1*
o-Terphenyl	*109*		*70 - 130*	*04/15/21 12:00*	*04/15/21 15:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		5.05		mg/Kg			04/16/21 12:41	1

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

Lab Sample ID: 880-1319-3
Matrix: Solid
Date Collected: 04/14/21 10:56
Date Received: 04/15/21 10:56

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		04/15/21 11:36	04/16/21 00:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/15/21 11:36	04/16/21 00:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/15/21 11:36	04/16/21 00:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/15/21 11:36	04/16/21 00:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/15/21 11:36	04/16/21 00:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/15/21 11:36	04/16/21 00:37	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/15/21 11:36	04/16/21 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*04/15/21 11:36*	*04/16/21 00:37*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*04/15/21 11:36*	*04/16/21 00:37*	*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		04/15/21 12:00	04/15/21 15:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 15:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 15:45	1
Total TPH	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*04/15/21 12:00*	*04/15/21 15:45*	*1*
o-Terphenyl	*122*		*70 - 130*	*04/15/21 12:00*	*04/15/21 15:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.8**		4.98		mg/Kg			04/16/21 12:46	1

Client Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

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

Date Collected: 04/14/21 10:56
Date Received: 04/15/21 10:56

Lab Sample ID: 880-1319-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/15/21 11:36	04/16/21 00:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/15/21 11:36	04/16/21 00:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/15/21 11:36	04/16/21 00:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/15/21 11:36	04/16/21 00:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/15/21 11:36	04/16/21 00:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/15/21 11:36	04/16/21 00:57	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		04/15/21 11:36	04/16/21 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/15/21 11:36*	*04/16/21 00:57*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/15/21 11:36*	*04/16/21 00:57*	*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		04/15/21 12:00	04/15/21 16:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 16:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 16:06	1
Total TPH	<50.0	U	50.0		mg/Kg		04/15/21 12:00	04/15/21 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*04/15/21 12:00*	*04/15/21 16:06*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/15/21 12:00*	*04/15/21 16:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.7**		4.95		mg/Kg			04/16/21 12:51	1

Surrogate Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-1319-1	S-1 (0-6")	113	109
880-1319-2	S-2 (0-6")	111	110
880-1319-3	S-3 (0-6")	107	107
880-1319-4	S-4 (0-6")	110	109
LCS 880-1817/1-A	Lab Control Sample	98	106
LCSD 880-1817/2-A	Lab Control Sample Dup	98	106
MB 880-1817/5-A	Method Blank	98	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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-1319-1	S-1 (0-6")	117	115
880-1319-2	S-2 (0-6")	118	109
880-1319-3	S-3 (0-6")	122	122
880-1319-4	S-4 (0-6")	115	103
LCS 880-1816/2-A	Lab Control Sample	108	93
LCSD 880-1816/3-A	Lab Control Sample Dup	103	88
MB 880-1816/1-A	Method Blank	101	99

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1817/5-A
Matrix: Solid
Analysis Batch: 1833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1817

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/15/21 10:02	04/15/21 16:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/15/21 10:02	04/15/21 16:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/15/21 10:02	04/15/21 16:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/15/21 10:02	04/15/21 16:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/15/21 10:02	04/15/21 16:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/15/21 10:02	04/15/21 16:05	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/15/21 10:02	04/15/21 16:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/15/21 10:02*	*04/15/21 16:05*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/15/21 10:02*	*04/15/21 16:05*	*1*

Lab Sample ID: LCS 880-1817/1-A
Matrix: Solid
Analysis Batch: 1833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1817

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09286		mg/Kg		93	70 - 130		
Toluene			0.100	0.09730		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.1019		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2076		mg/Kg		104	70 - 130		
o-Xylene			0.100	0.1020		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-1817/2-A
Matrix: Solid
Analysis Batch: 1833

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1817

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09169		mg/Kg		92	70 - 130	1	35
Toluene			0.100	0.09769		mg/Kg		98	70 - 130	0	35
Ethylbenzene			0.100	0.1030		mg/Kg		103	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2089		mg/Kg		104	70 - 130	1	35
o-Xylene			0.100	0.1020		mg/Kg		102	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

QC Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-1816/1-A
Matrix: Solid
Analysis Batch: 1818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1816

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		04/15/21 10:01	04/15/21 11:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/15/21 10:01	04/15/21 11:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/15/21 10:01	04/15/21 11:52	1
Total TPH	<50.0	U	50.0		mg/Kg		04/15/21 10:01	04/15/21 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*04/15/21 10:01*	*04/15/21 11:52*	*1*
o-Terphenyl	*99*		*70 - 130*	*04/15/21 10:01*	*04/15/21 11:52*	*1*

Lab Sample ID: LCS 880-1816/2-A
Matrix: Solid
Analysis Batch: 1818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1816

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1241		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1079		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: LCSD 880-1816/3-A
Matrix: Solid
Analysis Batch: 1818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1816

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1101		mg/Kg		110	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1010		mg/Kg		101	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1830/1-A
Matrix: Solid
Analysis Batch: 1851

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			04/16/21 12:05	1

QC Sample Results

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1830/2-A
Matrix: Solid
Analysis Batch: 1851

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	258.4		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-1830/3-A
Matrix: Solid
Analysis Batch: 1851

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	256.4		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 1817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1319-1	S-1 (0-6")	Total/NA	Solid	5035	
880-1319-2	S-2 (0-6")	Total/NA	Solid	5035	
880-1319-3	S-3 (0-6")	Total/NA	Solid	5035	
880-1319-4	S-4 (0-6")	Total/NA	Solid	5035	
MB 880-1817/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1817/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1817/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1319-1	S-1 (0-6")	Total/NA	Solid	8021B	1817
880-1319-2	S-2 (0-6")	Total/NA	Solid	8021B	1817
880-1319-3	S-3 (0-6")	Total/NA	Solid	8021B	1817
880-1319-4	S-4 (0-6")	Total/NA	Solid	8021B	1817
MB 880-1817/5-A	Method Blank	Total/NA	Solid	8021B	1817
LCS 880-1817/1-A	Lab Control Sample	Total/NA	Solid	8021B	1817
LCSD 880-1817/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1817

GC Semi VOA

Prep Batch: 1816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1319-1	S-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-1319-2	S-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-1319-3	S-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-1319-4	S-4 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-1816/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1816/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1319-1	S-1 (0-6")	Total/NA	Solid	8015B NM	1816
880-1319-2	S-2 (0-6")	Total/NA	Solid	8015B NM	1816
880-1319-3	S-3 (0-6")	Total/NA	Solid	8015B NM	1816
880-1319-4	S-4 (0-6")	Total/NA	Solid	8015B NM	1816
MB 880-1816/1-A	Method Blank	Total/NA	Solid	8015B NM	1816
LCS 880-1816/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1816
LCSD 880-1816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1816

HPLC/IC

Leach Batch: 1830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1319-1	S-1 (0-6")	Soluble	Solid	DI Leach	
880-1319-2	S-2 (0-6")	Soluble	Solid	DI Leach	
880-1319-3	S-3 (0-6")	Soluble	Solid	DI Leach	
880-1319-4	S-4 (0-6")	Soluble	Solid	DI Leach	
MB 880-1830/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1830/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1830/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

HPLC/IC

Analysis Batch: 1851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1319-1	S-1 (0-6")	Soluble	Solid	300.0	1830
880-1319-2	S-2 (0-6")	Soluble	Solid	300.0	1830
880-1319-3	S-3 (0-6")	Soluble	Solid	300.0	1830
880-1319-4	S-4 (0-6")	Soluble	Solid	300.0	1830
MB 880-1830/1-A	Method Blank	Soluble	Solid	300.0	1830
LCS 880-1830/2-A	Lab Control Sample	Soluble	Solid	300.0	1830
LCSD 880-1830/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1830

Lab Chronicle

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-1319-1
Matrix: Solid
Date Collected: 04/14/21 10:56
Date Received: 04/15/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1817	04/15/21 11:36	MR	XM
Total/NA	Analysis	8021B		1	1833	04/15/21 23:56	MR	XM
Total/NA	Prep	8015NM Prep			1816	04/15/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	1818	04/15/21 15:03	AJ	XM
Soluble	Leach	DI Leach			1830	04/15/21 12:29	SC	XM
Soluble	Analysis	300.0		1	1851	04/16/21 12:36	SC	XM

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

Lab Sample ID: 880-1319-2
Matrix: Solid
Date Collected: 04/14/21 10:56
Date Received: 04/15/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1817	04/15/21 11:36	MR	XM
Total/NA	Analysis	8021B		1	1833	04/16/21 00:16	MR	XM
Total/NA	Prep	8015NM Prep			1816	04/15/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	1818	04/15/21 15:24	AJ	XM
Soluble	Leach	DI Leach			1830	04/15/21 12:29	SC	XM
Soluble	Analysis	300.0		1	1851	04/16/21 12:41	SC	XM

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

Lab Sample ID: 880-1319-3
Matrix: Solid
Date Collected: 04/14/21 10:56
Date Received: 04/15/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1817	04/15/21 11:36	MR	XM
Total/NA	Analysis	8021B		1	1833	04/16/21 00:37	MR	XM
Total/NA	Prep	8015NM Prep			1816	04/15/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	1818	04/15/21 15:45	AJ	XM
Soluble	Leach	DI Leach			1830	04/15/21 12:29	SC	XM
Soluble	Analysis	300.0		1	1851	04/16/21 12:46	SC	XM

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

Lab Sample ID: 880-1319-4
Matrix: Solid
Date Collected: 04/14/21 10:56
Date Received: 04/15/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1817	04/15/21 11:36	MR	XM
Total/NA	Analysis	8021B		1	1833	04/16/21 00:57	MR	XM
Total/NA	Prep	8015NM Prep			1816	04/15/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	1818	04/15/21 16:06	AJ	XM
Soluble	Leach	DI Leach			1830	04/15/21 12:29	SC	XM
Soluble	Analysis	300.0		1	1851	04/16/21 12:51	SC	XM

Laboratory References:

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

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: NT Global
Project/Site: EOG - Thor 21 CTB

Job ID: 880-1319-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-1319-1	S-1 (0-6")	Solid	04/14/21 10:56	04/15/21 10:56	
880-1319-2	S-2 (0-6")	Solid	04/14/21 10:56	04/15/21 10:56	
880-1319-3	S-3 (0-6")	Solid	04/14/21 10:56	04/15/21 10:56	
880-1319-4	S-4 (0-6")	Solid	04/14/21 10:56	04/15/21 10:56	

NTG ENVIRONMENTAL

880-1319 Chain of Custody

Work Order No: 1319

4/16/2021

Page 1 of 1

Project Manager	Mike Carmona	Bill to (if different)	James Kennedy
Company Name.	NTG Environmental	Company Name:	EOG Resources
Address	701 Tradewinds BLVD	Address.	5509 Champions Dr
City, State ZIP	Midland, TX 79706	City, State ZIP	Midland, Tx 79706
Phone.	432-813-0263	Email	James_Kennedy@eogresources

Work Order Comments

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

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other

Project Name.	Thor 21 CTB	Turn Around	
Project Number	214124	☐ Routine ☑ Rush	
Project Location	Lea Co, NM	Due Date	72 Hrs
Sampler's Name:	CRM	TAT starts the day received by the lab, if received by 4 30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank. Yes (No)	Wet Ice (Yes) No	
Received Intact:	(Yes) No	Thermometer ID	IR-8
Cooler Custody Seals	Yes No (N/A)	Correction Factor	+0.5
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	3.0
Total Containers.		Corrected Temperature.	3.5

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	HOLD	Sample Comments
S-1 (0-6")	4/14/2021		X		G	1		X	X	X		
S-2 (0-6")	4/14/2021		X		G	1		X	X	X		
S-3 (0-6")	4/14/2021		X		G	1		X	X	X		
S-4 (0-6")	4/14/2021		X		G	1		X	X	X		

Parameters

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	Connor Mackey		4/15/21 1056	2		
3				4		
5				6		

Revised Date 05012020 Rev 2020 1

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-1319-1
SDG Number: Lea Co, NM

Login Number: 1319
List Number: 1
Creator: Phillips, Kerianna

List Source: Eurofins Midland

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

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 62746

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 62746
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	1/7/2022