Site Information

Closure Report

Yates Rosemary Booster

Unit L Sec 06 T22S R32E
1RP-1527
32.418608°, -103.720863°

Produced Water Release
Source: Pipeline
Release Date: 8/07/2007
Volume Released: 100 bbls/PW/ .5 bbls Oil
Volume Recovered: 10 bbls/PW/ 0 bbls Oil

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

Prepared by:
NTG Environmental
701 Tradewinds Blvd
Suite C
Midland, TX 79707

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APPENDICES

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

February 25, 2021

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

Re: Closure Report
Yates Rosemary Booster 1RP-1527
EOG Resources Inc.
Site Location: Unit L, Sec.06, T22S, R32E
(Lat 32.418608º, Long -103.720863º)
Lea County, New Mexico

To whom it may concern:

New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment activities for the Yates Rosemary Booster 1RP-1527. The site is located at 32.418608 º, -103.720863º within Unit L, Section 06, Township 22 South, Range 32 East. The site location is shown on Figures 1 and 2.

Background

Based on the initial C-141 from the State of New Mexico, the leak was discovered on August 7, 2007, and released approximately 100 barrels of produced water and .5 barrels of oil due to an electrical problem that caused the connections on a water line to fail. A vacuum truck was dispatched to remove all freestanding fluids, recovering approximately 10 barrels of produced water and oil. The release occurred inside the bermed facility and measured approximately 76' x 23'. The initial C-141 form is included in Appendix A.

Site Characterization

The site is in a low karst area. There are no known water sources within ½ miles radius of the location. No water wells are listed within Section 6 on the New Mexico Office of State Engineer's database or the USGS database. The nearest well is in Section 7 on the New Mexico Office of State Engineer's database around 1.05 miles south of the site and has a reported depth to groundwater of 49' below surface. See Appendix A for the groundwater data.

Regulatory Criteria

Per the New Mexico Oil Conservation Division (NMOCD) update guidelines dated August 14, 2018, for Remediation of leaks, Spills, and Releases will follow Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12):

- 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 February 2, 2021, NTG Environmental were onsite to evaluate and sample the release area. A total of two (2) sample points (S-1 and S-2) were installed to a depth of 0.5' below surface inside the spill area. A total of four (4) horizontal delineation samples (H-1 through H-4) were collected around the perimeter of the spill to total depths of 0-0.5' below surface. The soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under proper chain-of-custody protocol to Xenco Laboratories for chemical analysis. The samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Based on the analytical results presented in Table 1, all samples collected showed chloride, total BTEX, and TPH concentrations below the regulatory criteria (19.15.29.12).

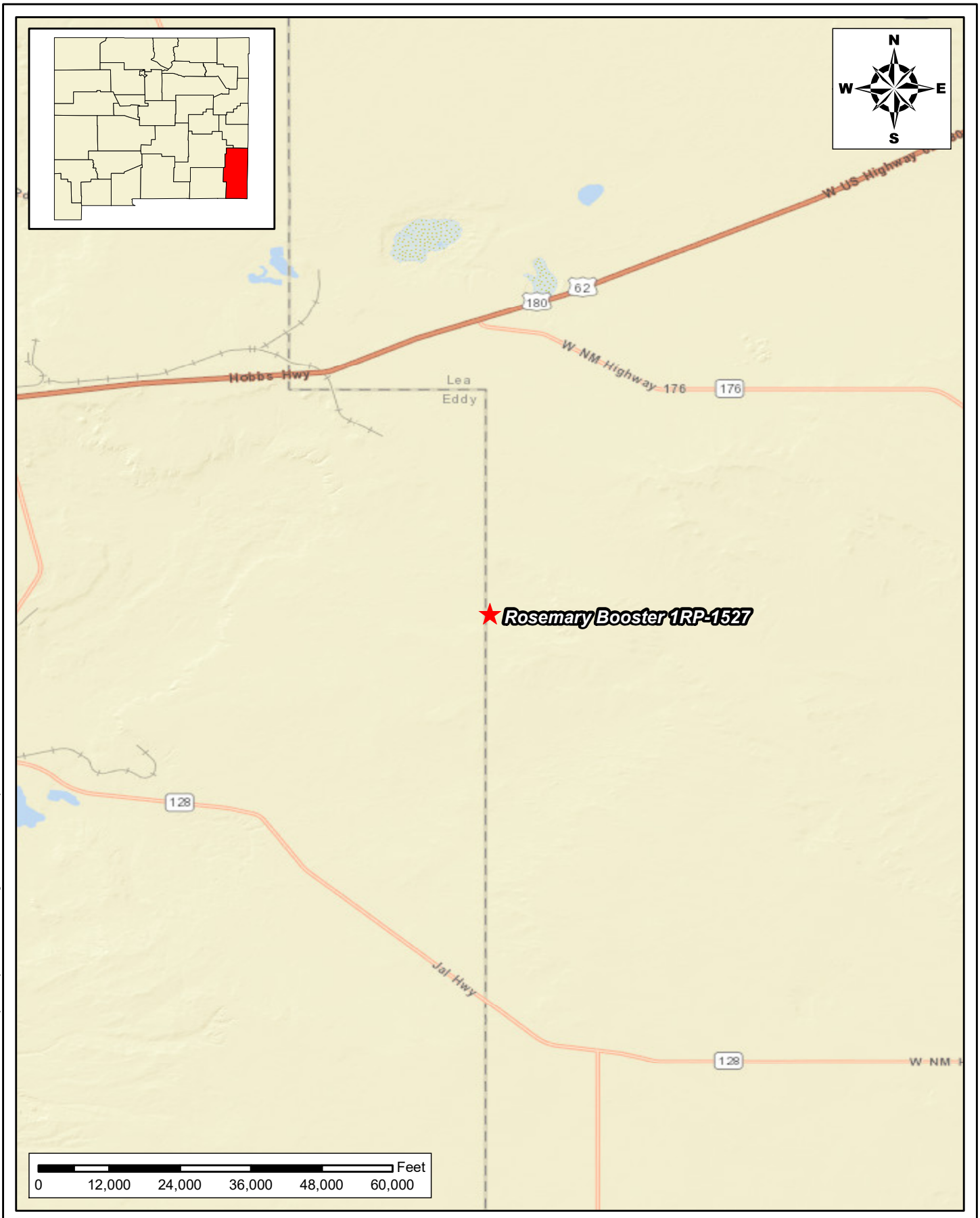
Conclusions

Based on the analytical results, EOG requests closure of the spill. The final C-141 is included in Appendix A. No further actions are required at this site. 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
ROSEMARY BOOSTER 1RP-1527
LEA COUNTY, NM
32.4184608, -103.720863

SCALE: AS SHOWN | DATE: 02/04/2021 | PROJECT #: 213856

New Tech Global Environmental, LLC
701 Tradewind Blvd Suite C
Midland, Texas 79707
T - (432) 685-3898
Web: www.ntglobal.com

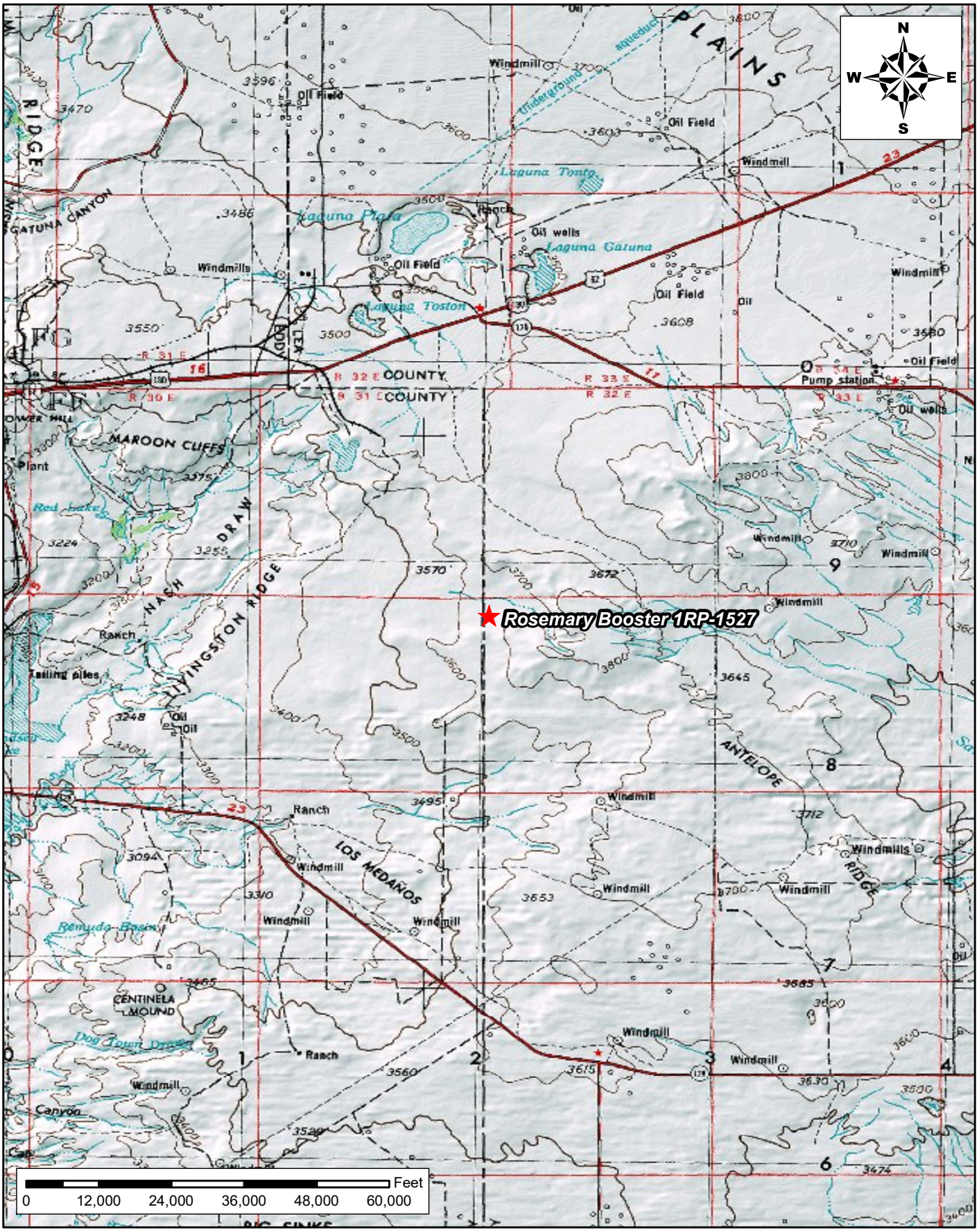
NOTES:

1. Base Image: ESRI Maps & Data 2016
2. Map Projection: NAD 1983

FIGURE 1

★ Site Location

Document Path: P:\2021 PROJECTS\EOG\213856 - Yates Rosemary Battery 1RP-1527\7 - Figures\GIS\Rosemary Booster 1RP-1527 Area 02042021.mxd



AREA MAP
EOG RESOURCES
ROSEMARY BOOSTER 1RP-1527
LEA COUNTY, NM
32.418608, -103.720863

SCALE: AS SHOWN	DATE: 02/04/2021	PROJECT #: 213856

New Tech Global Environmental, LLC
701 Tradewind Blvd Suite C
Midland, Texas 79707
T - (432) 685-3898
Web: www.ntglobal.com

NOTES:

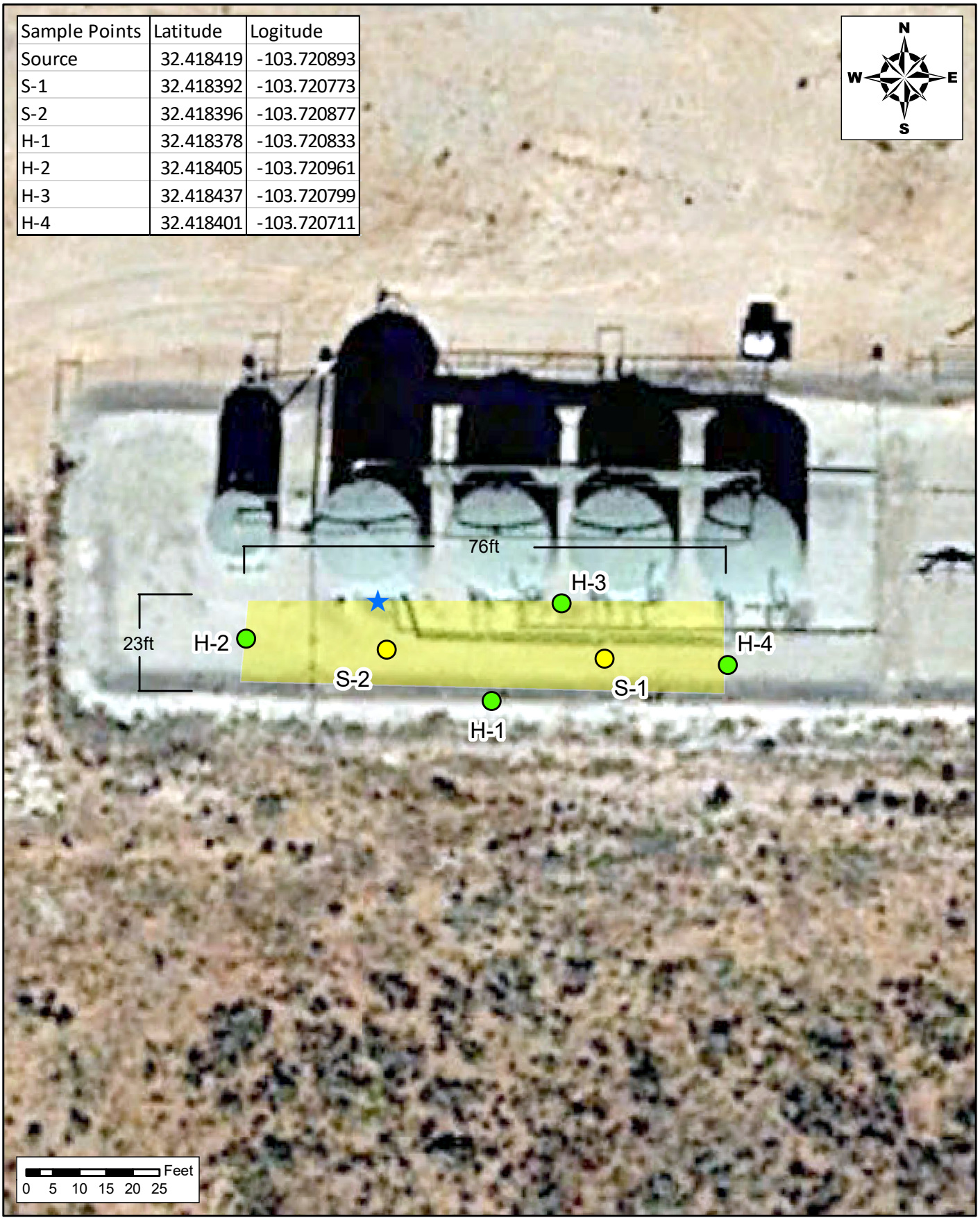
1. Base Image: ESRI Maps & Data 2016
2. Map Projection: NAD 1983

★ Site Location

FIGURE 2

Document Path: P:\2021 PROJECTS\EOG\213856 - Yates Rosemary Battery 1RP-1527\7 - Figures\GIS\Rosemary Booster 1RP-1527 Area 02042021.mxd

Sample Points	Latitude	Logitude
Source	32.418419	-103.720893
S-1	32.418392	-103.720773
S-2	32.418396	-103.720877
H-1	32.418378	-103.720833
H-2	32.418405	-103.720961
H-3	32.418437	-103.720799
H-4	32.418401	-103.720711



SAMPLE LOCATION MAP
EOG RESOURCES
ROSEMARY BOOSTER 1RP-1527
LEA COUNTY, NM
32.4184608, -103.720863

LEGEND
- Source
- Sample Points
- Horizontal Samples
- Impacted Area

New Tech Global Environmental, LLC
701 Tradewind Blvd Suite C
Midland, Texas 79707
T - (432) 685-3898
Web: www.ntglobal.com

NOTES:
1. Base Image: ESRI Maps & Data 2016
2. Map Projection: NAD 1983

FIGURE 3

SCALE: AS SHOWN | DATE: 02/09/2021 | PROJECT #: 213856

Document Path: P:\2021 PROJECTS\EOG\213856 - Yates Rosemary Battery 1RP-1527\7 - Figures\GIS\Rosemary Booster 1RP-1527 02062021 Sample Points.mxd

Tables

Table 1
EOG Resources
Yates Rosemary Booster 1RP-1527
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	2/2/2021	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	152
S-2	2/2/2021	0-6"	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	23.8
H-1	2/2/2021	0-6"	<49.9	70.9	<49.9	70.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	23.7
H-2	2/2/2021	0-6"	<50.0	70.4	<50.0	70.4	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	272
H-3	2/2/2021	0-6"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	35.3
H-4	2/2/2021	0-6"	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	22.7
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

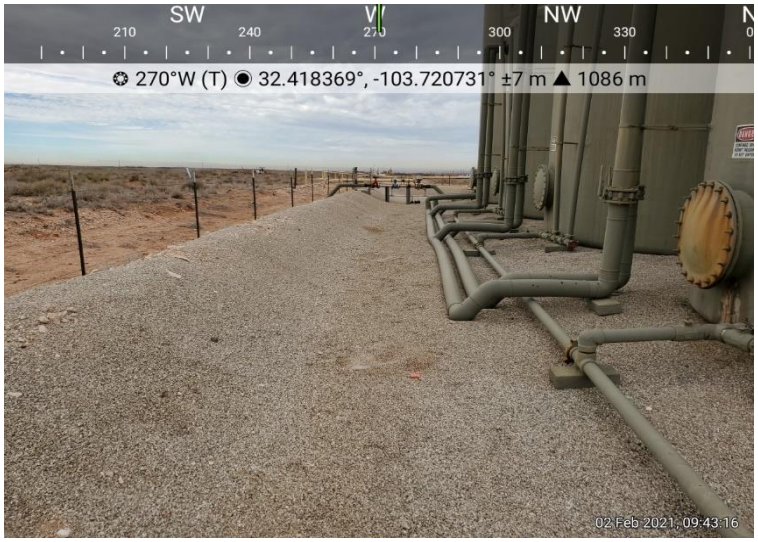
EOG Resources

Photograph No. 1

Facility: Yates Rosemary Booster

County: Lea County, New Mexico

Description:
View West of sampled release area.



Photograph No. 2

Facility: Yates Rosemary Booster

County: Lea County, New Mexico

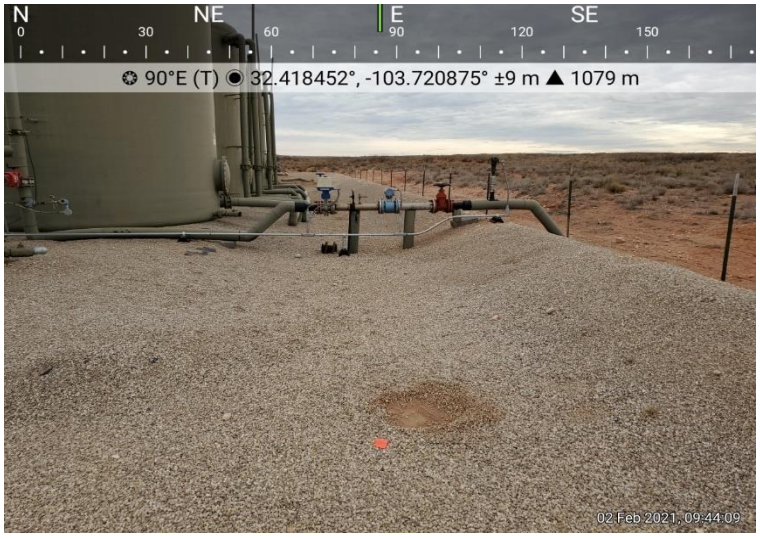
Description:
View Northwest of sampled release area

Photograph No. 3

Facility: Yates Rosemary Booster

County: Lea County, New Mexico

Description:
View East of sampled release area



Appendix A

District I
1625 N French Dr , Hobbs, NM 88240
District II
1301 W Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	OGRID Number	Contact
YATES PETROLEUM CORPORATION	25575	SHERRY BONHAM
Address		Telephone No.
105 S 4TH STREET		505.748.1471
Facility Name	API Number	Facility Type
ROSEMARY BOOSTER		PIPELINE

Surface Owner	Mineral Owner	Lease No
FEDERAL	FEDERAL	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	6	22S	32E					LEA

Latitude_____ **Longitude**_____

WTR 200'

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
PRODUCED WATER	100 B/PW and ½ B/O	10 Barrels PW/O
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
PIPELINE	08/07/07 5:00 AM	08/07/07 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD VOICEMAIL	
By Whom? ROBERT ASHER	Date and Hour 8/7/07 2:38 PM AND FOLLOW UP EMAIL 8/7/07 2:48 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

DATE REC'D 1

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
ELECTRICAL PROBLEM CAUSED CONNECTIONS ON WATER LINE TO MELT. TURNED PUMP OFF AND SHUT VALVE ON WATER LINE. REPAIRS MADE TO LINE.

CHLORIDE CONTENT (WATER SPILLED)

Describe Area Affected and Cleanup Action Taken.*
APPROXIMATELY 75' X 20' AREA AFFECTED. CALLED IN VACUUM TRUCK. VACUUMED STANDING FLUIDS. EXCAVATED AND HAULED IMPACTED MATERIALS TO DISPOSAL FACILITY.

HOW WAS 'IMPACTED MATERIAL' DETERMINED ?

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:	OIL CONSERVATION DIVISION
Printed Name: Sherry Bonham	Approved by District Supervisor:
Title: Environmental Regulatory Agent	Approval Date: 9-11-07 Expiration Date: 10-12-07
E-mail Address: sherryb@ypcnm.com	Conditions of Approval: Attached ☐
Date: August 10, 2007 Phone: 505.748.1471	

ENVIRONMENTAL ENGINEER

* Attach Additional Sheets If Necessary

(1)

RP# 1527

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-1527
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?	49' (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☑ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-1527
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: 2/23/2021

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-1527
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: Environmental Specialist

Signature: James Kennedy Date: 2/23/2021

email: james_kennedy@eogresources.com Telephone: 432.848.9146

OCD Only

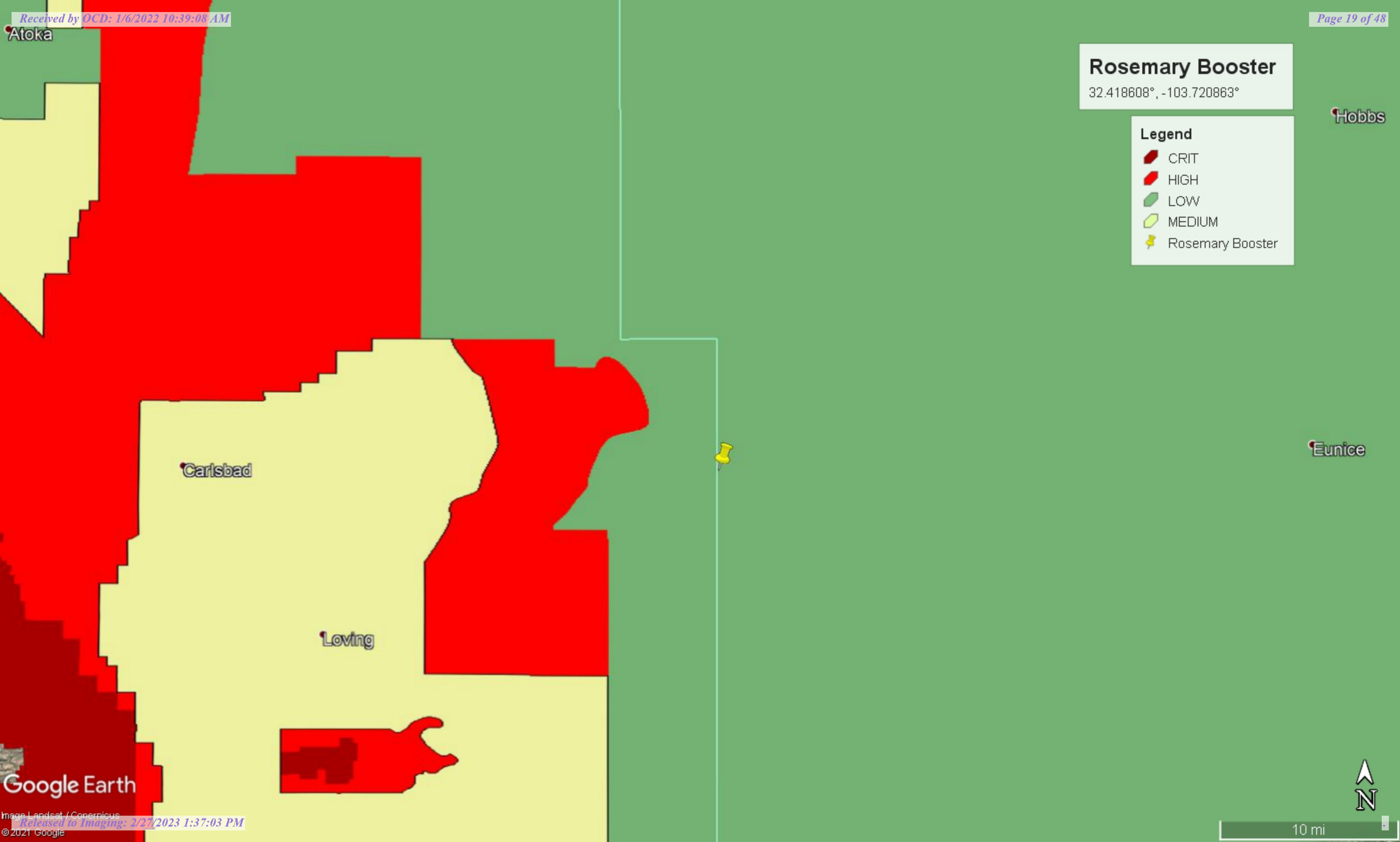
Received by: OCD Date: 1/6/2022

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.

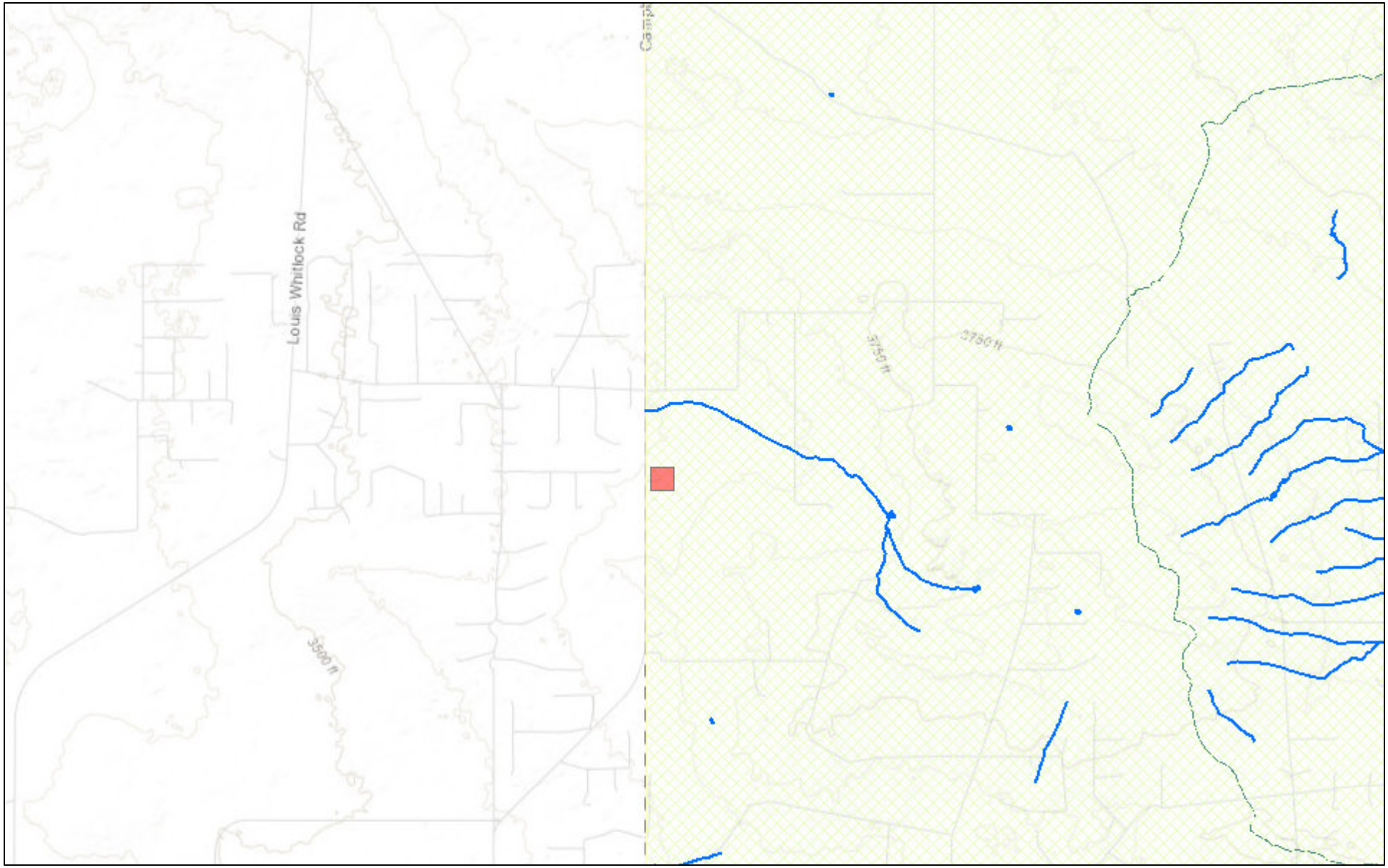
Closure Approved by: Ashley Maxwell Date: 2/27/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

Appendix B



New Mexico NFHL Data



February 4, 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,

Yates Rosemary Booster

31.418600°, -103.720826°

Legend

.50 Mile Radius

Rosemary Booster

NMSEO 49' 22S 32E Sec 7
32.402498,-103.722439

NMSEO 55' 22S 32E Sec 7

Google Earth

4000 ft

N

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 02096	CUB	ED		2	3	14	22S	32E	627204	3584464*	435	360	75
C 02821	C	LE	2	2	3	14	22S	32E	627303	3584563*	540	340	200
C 02939	C	LE	3	3	1	19	22S	32E	620234	3583042*	280		
C 03717 POD1	C	LE	4	4	1	09	22S	32E	624094	3586365	650		
C 04144 POD1	CUB	LE	3	1	3	07	22S	32E	620240	3585844	58	49	9
C 04144 POD2	CUB	LE	3	1	3	07	22S	32E	620147	3585768	60	55	5
C 04144 POD3	CUB	LE	3	1	3	07	22S	32E	620240	3585842			
C 04144 POD4	CUB	LE	3	1	3	07	22S	32E	620200	3585808			
C 04144 POD9	CUB	LE	1	3	3	07	22S	32E	620126	3585667	63	0	63

Average Depth to Water: **160 feet**
Minimum Depth: **0 feet**
Maximum Depth: **360 feet**

Record Count: 9

PLSS Search:

Township: 22S **Range:** 32E

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

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04144 POD1	3	1	3	07	22S	32E	620240	3585844

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: ATKINS., WILLIAM B.

Drill Start Date: 01/29/2018 **Drill Finish Date:** 01/30/2018 **Plug Date:**

Log File Date: 02/15/2018 **PCW Rcv Date:** **Source:** Shallow

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

Casing Size: 2.00 **Depth Well:** 58 feet **Depth Water:** 49 feet

Water Bearing Stratifications:	Top	Bottom	Description
	42	54	Sandstone/Gravel/Conglomerate
	54	56	Sandstone/Gravel/Conglomerate
	56	58	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	38	58

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
NA	C 04144 POD2	3	1	3	07	22S	32E	620147	3585768

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: ATKINS., WILLIAM B.

Drill Start Date: 01/30/2018 **Drill Finish Date:** 01/30/2018 **Plug Date:**

Log File Date: 02/15/2018 **PCW Rcv Date:** **Source:** Shallow

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

Casing Size: 2.00 **Depth Well:** 60 feet **Depth Water:** 55 feet

Water Bearing Stratifications:	Top	Bottom	Description
	52	56	Sandstone/Gravel/Conglomerate
	56	59	Sandstone/Gravel/Conglomerate
	59	60	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	40	60

Appendix C

eurofins | Environment Testing Xenco

Analytical Report 687294

for

NTG Global

Project Manager: Mike Carmona

Rosemary Booster 1RP-1527

213856

02.08.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins | Environment Testing Xenco

02.08.2021

Project Manager: **Mike Carmona**
NT Global
701 Tradewinds Blvd
Midland, TX 79706

Reference: Eurofins Xenco, LLC Report No(s): **687294**
Rosemary Booster 1RP-1527
Project Address: Lea Co, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 687294. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 687294 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Certificate of Analysis Summary 687294

NT Global, Midland, TX

Project Name: Rosemary Booster 1RP-1527

Project Id: 213856
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 02.04.2021 09:08
Report Date: 02.08.2021 16:13
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	687294-001		687294-002		687294-003		687294-004		687294-005		687294-006	
	Field Id:	S-1 (0-6")		S-2 (0-6")		H-1 (0-6")		H-2 (0-6")		H-3 (0-6")		H-4 (0-6")	
	Depth:	0-6 In		0-6 In		0-6 In		0-6 In		0-6 In		0-6 In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	02.02.2021 00:00		02.02.2021 00:00		02.02.2021 00:00		02.02.2021 00:00		02.02.2021 00:00		02.02.2021 00:00	
BTEX by EPA 8021B	***Extracted:***	02.04.2021 11:45		02.04.2021 11:45		02.04.2021 11:45		02.04.2021 11:45		02.04.2021 11:45		02.04.2021 11:45	
	Analyzed:	02.04.2021 20:49		02.04.2021 21:10		02.04.2021 21:30		02.04.2021 21:51		02.04.2021 22:11		02.04.2021 22:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00403	0.00403	<0.00399	0.00399	<0.00402	0.00402	<0.00398	0.00398	<0.00400	0.00400	<0.00397	0.00397
o-Xylene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Inorganic Anions by EPA 300/300.1	***Extracted:***	02.04.2021 15:00		02.04.2021 15:00		02.04.2021 15:00		02.04.2021 15:00		02.04.2021 15:00		02.04.2021 15:00	
	Analyzed:	02.04.2021 18:29		02.04.2021 18:34		02.04.2021 18:40		02.04.2021 18:56		02.04.2021 19:01		02.04.2021 19:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		152	4.97	23.8	5.02	23.7	4.96	272	5.00	35.3	5.00	22.7	5.00
TPH By SW8015 Mod	***Extracted:***	** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **	
	Analyzed:	02.05.2021 03:29		02.05.2021 03:51		02.05.2021 04:11		02.05.2021 04:32		02.05.2021 04:54		02.05.2021 05:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	70.9	49.9	70.4	50.0	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9
Total TPH		<50.0	50.0	<49.8	49.8	70.9	49.9	70.4	50.0	<50.0	50.0	<49.9	49.9

BRL - Below Reporting Limit

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Sample Cross Reference 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 (0-6")	S	02.02.2021 00:00	0 - 6 In	687294-001
S-2 (0-6")	S	02.02.2021 00:00	0 - 6 In	687294-002
H-1 (0-6")	S	02.02.2021 00:00	0 - 6 In	687294-003
H-2 (0-6")	S	02.02.2021 00:00	0 - 6 In	687294-004
H-3 (0-6")	S	02.02.2021 00:00	0 - 6 In	687294-005
H-4 (0-6")	S	02.02.2021 00:00	0 - 6 In	687294-006

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CASE NARRATIVE

Client Name: NT Global

Project Name: Rosemary Booster 1RP-1527

Project ID: *213856*
Work Order Number(s): *687294*

Report Date: *02.08.2021*
Date Received: *02.04.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3150165 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7720892-1-BLK,687291-001 S,687291-001 SD,687294-003,687294-002,687294-004,687294-001.

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**S-1 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-001	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	02.04.2021 15:00	% Moisture:	
Seq Number:	3150091			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**152**	4.97	mg/kg	02.04.2021 18:29		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.04.2021 09:00	% Moisture:	
Seq Number:	3150165			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.05.2021 03:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.05.2021 03:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.05.2021 03:29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.05.2021 03:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	02.05.2021 03:29	
o-Terphenyl	84-15-1	146	%	70-130	02.05.2021 03:29	**

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**S-1 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-001	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	02.04.2021 11:45	% Moisture:	
Seq Number:	3150088			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.04.2021 20:49	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.04.2021 20:49	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.04.2021 20:49	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.04.2021 20:49	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.04.2021 20:49	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.04.2021 20:49	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.04.2021 20:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	02.04.2021 20:49	
1,4-Difluorobenzene	540-36-3	88	%	70-130	02.04.2021 20:49	

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**S-2 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-002	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	02.04.2021 15:00	% Moisture:	
Seq Number:	3150091			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23.8**	5.02	mg/kg	02.04.2021 18:34		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	02.04.2021 09:00	% Moisture:	
Seq Number:	3150165			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.05.2021 03:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.05.2021 03:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.05.2021 03:51	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.05.2021 03:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	02.05.2021 03:51	
o-Terphenyl	84-15-1	138	%	70-130	02.05.2021 03:51	**

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**S-2 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-002	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	02.04.2021 11:45	% Moisture:	
Seq Number:	3150088			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.04.2021 21:10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.04.2021 21:10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.04.2021 21:10	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.04.2021 21:10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.04.2021 21:10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.04.2021 21:10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.04.2021 21:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	02.04.2021 21:10	
1,4-Difluorobenzene	540-36-3	82	%	70-130	02.04.2021 21:10	

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**H-1 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-003	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P

Tech: CHE
Analyst: CHE
Seq Number: 3150091

Date Prep: 02.04.2021 15:00

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23.7**	4.96	mg/kg	02.04.2021 18:40		1

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P

Tech: DVM
Analyst: ARM
Seq Number: 3150165

Date Prep: 02.04.2021 09:00

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.05.2021 04:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	**70.9**	49.9	mg/kg	02.05.2021 04:11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.05.2021 04:11		1
Total TPH	PHC635	**70.9**	49.9	mg/kg	02.05.2021 04:11		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	02.05.2021 04:11	
o-Terphenyl	84-15-1	138	%	70-130	02.05.2021 04:11	**

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**H-1 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-003	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	02.04.2021 11:45	% Moisture:	
Seq Number:	3150088			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.04.2021 21:30	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.04.2021 21:30	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.04.2021 21:30	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.04.2021 21:30	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.04.2021 21:30	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.04.2021 21:30	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.04.2021 21:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.04.2021 21:30	
1,4-Difluorobenzene	540-36-3	87	%	70-130	02.04.2021 21:30	

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**H-2 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-004	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P

Tech: CHE
Analyst: CHE
Seq Number: 3150091

Date Prep: 02.04.2021 15:00

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**272**	5.00	mg/kg	02.04.2021 18:56		1

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P

Tech: DVM
Analyst: ARM
Seq Number: 3150165

Date Prep: 02.04.2021 09:00

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.05.2021 04:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	**70.4**	50.0	mg/kg	02.05.2021 04:32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.05.2021 04:32	U	1
Total TPH	PHC635	**70.4**	50.0	mg/kg	02.05.2021 04:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	02.05.2021 04:32	
o-Terphenyl	84-15-1	148	%	70-130	02.05.2021 04:32	**

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**H-2 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-004	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	02.04.2021 11:45	% Moisture:	
Seq Number:	3150088			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.04.2021 21:51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.04.2021 21:51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.04.2021 21:51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.04.2021 21:51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.04.2021 21:51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.04.2021 21:51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.04.2021 21:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	02.04.2021 21:51	
1,4-Difluorobenzene	540-36-3	95	%	70-130	02.04.2021 21:51	

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**H-3 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-005	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P

Tech: CHE
Analyst: CHE
Seq Number: 3150091

Date Prep: 02.04.2021 15:00

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**35.3**	5.00	mg/kg	02.04.2021 19:01		1

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P

Tech: DVM
Analyst: ARM
Seq Number: 3150165

Date Prep: 02.04.2021 09:00

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.05.2021 04:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.05.2021 04:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.05.2021 04:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.05.2021 04:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	02.05.2021 04:54	
o-Terphenyl	84-15-1	124	%	70-130	02.05.2021 04:54	

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**H-3 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-005	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	02.04.2021 11:45	% Moisture:	
Seq Number:	3150088			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.04.2021 22:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.04.2021 22:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.04.2021 22:11	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.04.2021 22:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.04.2021 22:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.04.2021 22:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.04.2021 22:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	02.04.2021 22:11	
1,4-Difluorobenzene	540-36-3	92	%	70-130	02.04.2021 22:11	

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**H-4 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-006	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P

Tech: CHE
Analyst: CHE
Seq Number: 3150091

Date Prep: 02.04.2021 15:00

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.7**	5.00	mg/kg	02.04.2021 19:06		1

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P

Tech: DVM
Analyst: ARM
Seq Number: 3150165

Date Prep: 02.04.2021 09:00

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.05.2021 05:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.05.2021 05:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.05.2021 05:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.05.2021 05:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	02.05.2021 05:15	
o-Terphenyl	84-15-1	129	%	70-130	02.05.2021 05:15	

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Certificate of Analytical Results 687294

NT Global, Midland, TX

Rosemary Booster 1RP-1527

Sample Id:	**H-4 (0-6")**	Matrix:	Soil	Date Received:	02.04.2021 09:08
Lab Sample Id:	687294-006	Date Collected:	02.02.2021 00:00	Sample Depth:	0 - 6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	02.04.2021 11:45	% Moisture:	
Seq Number:	3150088			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.04.2021 22:31	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.04.2021 22:31	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.04.2021 22:31	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.04.2021 22:31	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.04.2021 22:31	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.04.2021 22:31	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.04.2021 22:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	02.04.2021 22:31	
1,4-Difluorobenzene	540-36-3	95	%	70-130	02.04.2021 22:31	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 687294

NT Global

Rosemary Booster 1RP-1527

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3150091 — Matrix: Solid — Date Prep: 02.04.2021
MB Sample Id: 7720812-1-BLK — LCS Sample Id: 7720812-1-BKS — LCSD Sample Id: 7720812-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	258	103	90-110	1	20	mg/kg	02.04.2021 17:57	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3150091 — Matrix: Soil — Date Prep: 02.04.2021
Parent Sample Id: 687202-003 — MS Sample Id: 687202-003 S — MSD Sample Id: 687202-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3860	2530	6450	102	7140	130	90-110	10	20	mg/kg	02.04.2021 19:27	X

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3150091 — Matrix: Soil — Date Prep: 02.04.2021
Parent Sample Id: 687293-005 — MS Sample Id: 687293-005 S — MSD Sample Id: 687293-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	32.2	248	285	102	286	102	90-110	0	20	mg/kg	02.04.2021 18:13	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150165 — Matrix: Solid — Date Prep: 02.04.2021
MB Sample Id: 7720892-1-BLK — LCS Sample Id: 7720892-1-BKS — LCSD Sample Id: 7720892-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1010	101	1050	105	70-130	4	20	mg/kg	02.04.2021 21:53	
Diesel Range Organics (DRO)	<50.0	1000	1300	130	1270	127	70-130	2	20	mg/kg	02.04.2021 21:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		95		79		70-130	%	02.04.2021 21:53
o-Terphenyl	159	**	112		95		70-130	%	02.04.2021 21:53

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3150165 — Matrix: Solid — Date Prep: 02.04.2021
MB Sample Id: 7720892-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.04.2021 21:31	

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

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

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

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QC Summary 687294

NT Global

Rosemary Booster 1RP-1527

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3150165 Matrix: Soil Date Prep: 02.04.2021
Parent Sample Id: 687291-001 MS Sample Id: 687291-001 S MSD Sample Id: 687291-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	799	80	806	81	70-130	1	20	mg/kg	02.04.2021 22:56	
Diesel Range Organics (DRO)	<50.0	999	1350	135	1370	137	70-130	1	20	mg/kg	02.04.2021 22:56	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		127		70-130	%	02.04.2021 22:56
o-Terphenyl	138	**	137	**	70-130	%	02.04.2021 22:56

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3150088 Matrix: Solid Date Prep: 02.04.2021
MB Sample Id: 7720846-1-BLK LCS Sample Id: 7720846-1-BKS LCSD Sample Id: 7720846-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0938	94	0.0944	94	70-130	1	35	mg/kg	02.04.2021 12:42	
Toluene	<0.00200	0.100	0.0890	89	0.0896	90	70-130	1	35	mg/kg	02.04.2021 12:42	
Ethylbenzene	<0.00200	0.100	0.0963	96	0.0974	97	70-130	1	35	mg/kg	02.04.2021 12:42	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.195	98	70-130	2	35	mg/kg	02.04.2021 12:42	
o-Xylene	<0.00200	0.100	0.0956	96	0.0975	98	70-130	2	35	mg/kg	02.04.2021 12:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		104		103		70-130	%	02.04.2021 12:42
4-Bromofluorobenzene	103		99		103		70-130	%	02.04.2021 12:42

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3150088 Matrix: Soil Date Prep: 02.04.2021
Parent Sample Id: 687058-029 MS Sample Id: 687058-029 S MSD Sample Id: 687058-029 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.0785	79	0.0771	77	70-130	2	35	mg/kg	02.04.2021 13:22	
Toluene	<0.00198	0.0990	0.0733	74	0.0719	72	70-130	2	35	mg/kg	02.04.2021 13:22	
Ethylbenzene	<0.00198	0.0990	0.0783	79	0.0745	75	70-130	5	35	mg/kg	02.04.2021 13:22	
m,p-Xylenes	<0.00396	0.198	0.156	79	0.148	74	70-130	5	35	mg/kg	02.04.2021 13:22	
o-Xylene	<0.00198	0.0990	0.0783	79	0.0742	74	70-130	5	35	mg/kg	02.04.2021 13:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		102		70-130	%	02.04.2021 13:22
4-Bromofluorobenzene	107		102		70-130	%	02.04.2021 13:22

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

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

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

Chain of Custody

Work Order No: 687294

Page 1 of 1

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

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Rosemary Booster 1RP-1527	Turn Around	☐ Routine ☒ Rush
Project Number:	213856	Due Date:	72 HR
Project Location	Lea Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Moehring/Merritt		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	(Yes) No	
Received Intact:	Yes No	Thermometer ID:	186	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	.5	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-.4	
Total Containers:	6	Corrected Temperature:		

ANALYSIS REQUEST

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B / BTEX 8260B	TPH 8015M (GRO. DRO. ORO. MRO)	Chloride 300.0	Sample Comments
S-1 (0-6")	S	2/2/2021		0-6"	G	1		X	X	X	
S-2 (0-6")	S	2/2/2021		0-6"	G	1		X	X	X	
H-1 (0-6")	S	2/2/2021		0-6"	G	1		X	X	X	
H-2 (0-6")	S	2/2/2021		0-6"	G	1		X	X	X	
H-3 (0-6")	S	2/2/2021		0-6"	G	1		X	X	X	
H-4 (0-6")	S	2/2/2021		0-6"	G	1		X	X	X	

Parameters

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: **1631 / 245.1 / 7470 / 7471**

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		2/4/21 9:08	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: NT Global

Date/ Time Received: 02.04.2021 09.08.00 AM

Work Order #: 687294

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

Temperature Measuring device used : IR8

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 02.04.2021
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 02.08.2021
Jessica Kramer

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 70836

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 70836
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/27/2023