



July 21, 2022

District 1
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Closure Request
Jaguar 18 State Com 002H & 003H
Incident Number NAPP2213643210
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this Closure Request to document site assessment and soil sampling activities performed at the Jaguar 18 State Com 002H and 003H (Site; Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a crude oil flare fire at the Site. Based on site assessment activities and laboratory analytical results from the soil sampling event, COG is requesting closure for Incident Number NAPP2213643210.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 18, Township 23 South, Range 33 East, in Lea County, New Mexico (32.29832°N, 103.60652°W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On May 6, 2022, oil made its way up the flare stack resulting in the release of approximately 0.134 barrels (bbls) of crude oil. No fluids were recovered due to the fire burning off any residual fluids. COG reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) on May 8, 2022 and submitted a Release Notification Form C-141 (Form C-141) on May 16, 2022. The release was assigned Incident Number NAPP2213643210.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) permitted well C-2275, located approximately 1/2 mile southwest of the Site. The groundwater well has a reported depth to groundwater of 400 feet bgs and a total depth of 650 feet bgs. Ground surface elevation at the groundwater well

location is 3,700 feet above mean sea level (amsl), which is approximately 1-foot higher in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 3.8 miles east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-Diesel Range Organics (DRO) + TPH-Gasoline Range Organics (GRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On June 15, 2022, site assessment activities were conducted to evaluate the release based on information provided on the Form C-141 and visual observations. No visible indications of the release or fire were observed. Four assessment soil samples (SS01 through SS04) were collected beneath the flare stack at a depth of 0.5 feet bgs, to assess for the presence or absence of impacted soil resulting from the crude oil flare fire. The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

ANALYTICAL RESULTS

Laboratory analytical results for assessment soil samples SS01 through SS04 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent of NMOCD Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Appendix C.

CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the May 6, 2022, crude oil flare fire. Laboratory analytical results for soil samples collected beneath the flare stack indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Additionally, no visible indications of the release or fire were observed.

Based on soil sample laboratory analytical results compliant with the most stringent Table 1 Closure Criteria, no impacted soil was identified and as a result, no excavation appeared warranted related to the crude oil fire. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2213643210. Required notifications are included as Appendix D. The Final C-141 is included in Appendix E.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely,
Ensolum, LLC



Josh Adams, P.G.
Project Geologist



Kalei Jennings
Senior Scientist

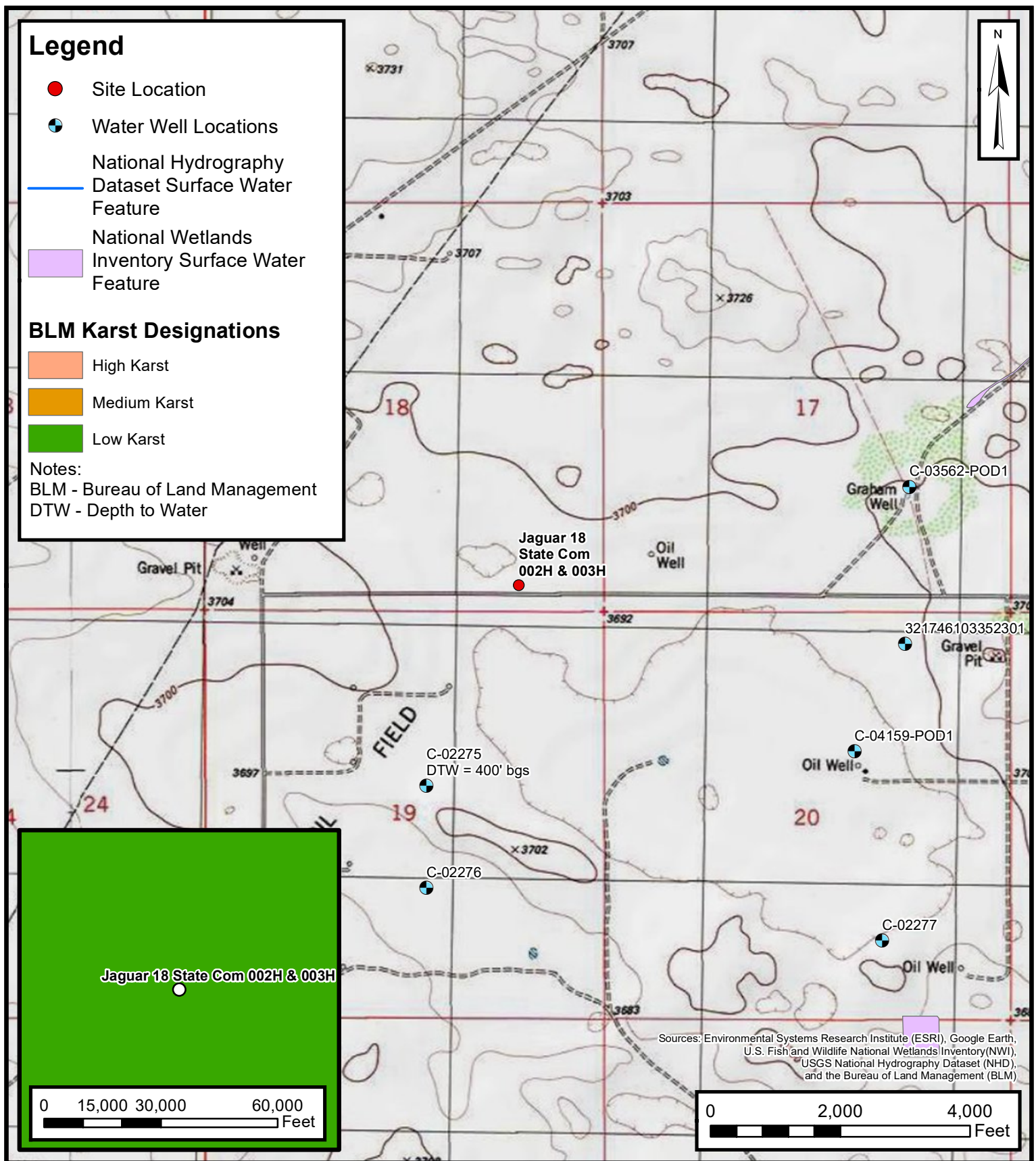
cc: Charles Beauvais, COG Operating, LLC

Appendices:

Figure 1	Site Receptor Map
Figure 2	Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody
Appendix D	NMOCD Notifications
Appendix E	Final C-141



FIGURES

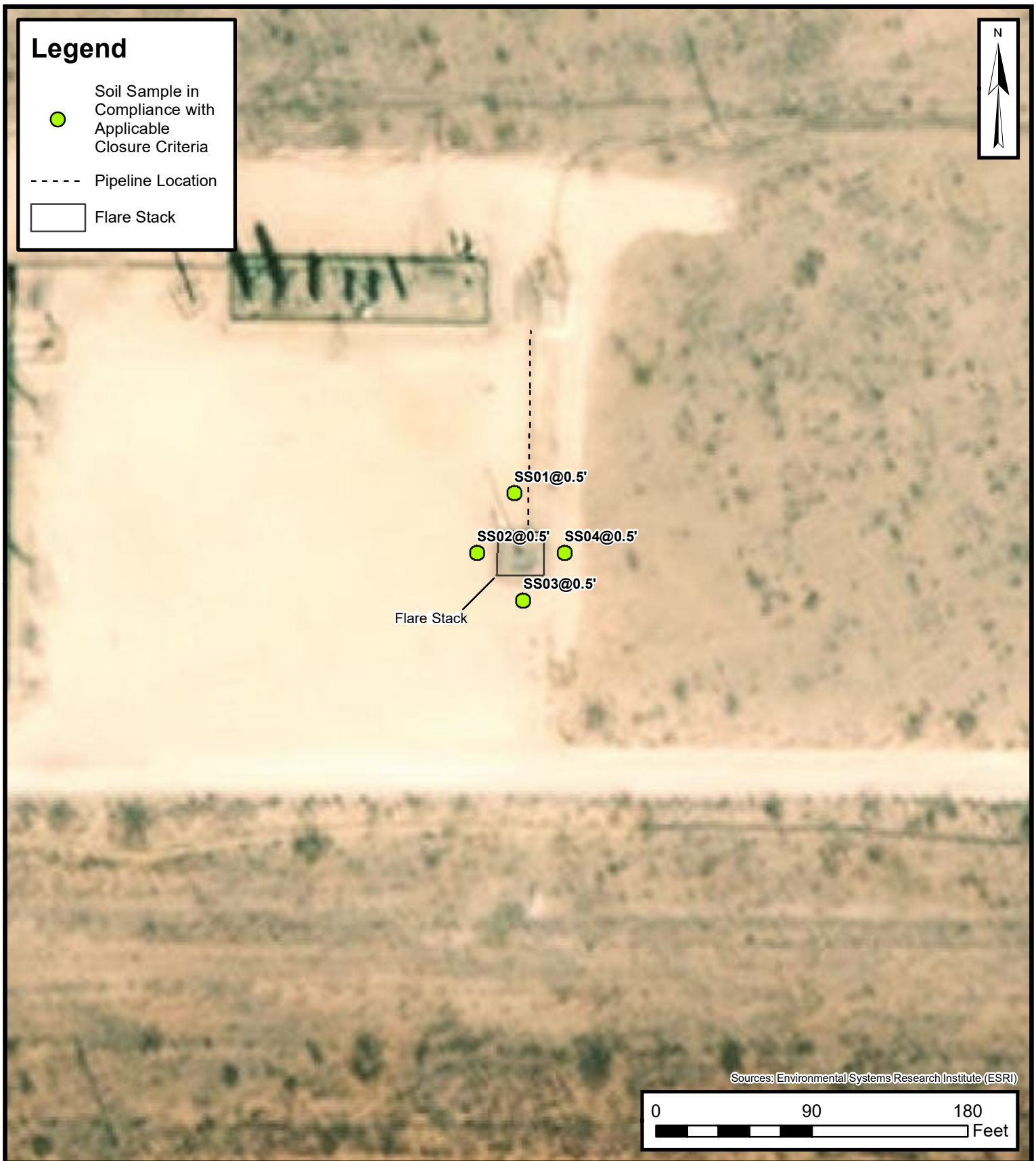


 **ENSOLUM**
Environmental & Hydrogeologic Consultants

Site Receptor Map

COG Operating, LLC
Jaguar State Com 002H&003H
NAPP2213643210
Unit P Sec 18 T23S-R33E
Lea County, NM

FIGURE
1



Soil Sample Locations

COG Operating, LLC
Jaguar State Com 002H&003H
NAPP2213643210
Unit P Sec 18 T23S-R33E
Lea County, NM

FIGURE
2



TABLE

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Jaguar 18 State Com 2H&3H COG Operating, LLC Lea County, New Mexico										
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Surface Soil Samples										
SS01	06/15/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	11.6
SS02	06/15/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	16.8
SS03	06/15/2022	0.5	<0.00199	0.00520	<49.9	<49.9	<49.9	<49.9	<49.9	9.12
SS04	06/15/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	9.24

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Reference Well Logs



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	02275	3	3	2	19	23S	33E	630843	3573557*

Driller License:**Driller Company:****Driller Name:** ABBOTT BROTHERS**Drill Start Date:****Drill Finish Date:**

12/31/1980

Plug Date:**Log File Date:****PCW Rev Date:****Source:**

Shallow

Pump Type:**Pipe Discharge Size:****Estimated Yield:** 40 GPM**Casing Size:** 8.63**Depth Well:**

650 feet

Depth Water: 400 feet**Meter Number:**

514

Meter Make:

MASTER METER

Meter Serial Number: 1527874**Meter Multiplier:**

10.0000

Number of Dials:

6

Meter Type:

Diversion

Unit of Measure:

Gallons

Return Flow Percent:**Usage Multiplier:****Reading Frequency:**

Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
02/28/1999	1999	260142	A	ms		0
04/15/1999	1999	294352	A	ms		1.050
07/18/1999	1999	320962	A	ms		0.817
11/28/1999	1999	367317	A	ms		1.423
04/06/2000	2000	413837	A	mb		1.428
08/16/2000	2000	474649	A	mb		1.866
09/15/2000	2000	485983	A	RPT		0.348
01/19/2001	2000	530107	A	RPT		1.354
04/27/2001	2001	569967	A	RPT		1.223
07/16/2001	2001	620178	A	ms		1.541
01/12/2002	2002	652573	A	tg		0.994
04/13/2002	2002	662745	A	RPT		0.312
07/12/2002	2002	674878	A	rm		0.372
01/01/2003	2002	714899	A	ms		1.228
07/11/2003	2003	751760	A	ms		1.131
10/01/2003	2003	778772	A	ab		0.829
01/08/2004	2003	802123	A	ab		0.717
04/07/2004	2004	821801	A	RPT		0.604
07/15/2004	2004	836507	A	RPT		0.451
10/12/2004	2004	844068	A	RPT		0.232
01/26/2005	2004	877058	A	RPT		1.012
04/15/2005	2005	889933	A	RPT		0.395
08/03/2005	2005	891339	A	RPT		0.043
10/31/2005	2005	927761	A	RPT		1.118
01/31/2006	2005	941723	A	RPT		0.428

04/20/2006	2006	966263	A	RPT	0.753
07/19/2006	2006	9421	R	tw Meter Rollover	1.324
11/27/2006	2006	90114	A	RPT	2.476
04/16/2007	2007	124935	A	tw	1.069
07/13/2007	2007	148838	A	tw	0.734
11/03/2007	2007	189325	A	RPT	1.243
04/15/2008	2008	230341	A	RPT	1.259
07/11/2008	2008	273176	A	RPT	1.315
01/08/2009	2008	375616	A	RPT	3.144
05/07/2009	2009	432782	A	RPT	1.754
07/06/2009	2009	465558	A	RPT	1.006
11/02/2009	2009	537994	A	tw	2.223
05/13/2010	2010	592265	A	RPT	1.666
08/23/2010	2010	598613	A	RPT	0.195
11/09/2010	2010	598791	A	RPT	0.005
02/13/2011	2011	599215	A	RPT	0.013
07/12/2011	2011	607344	A	RPT	0.249
01/10/2012	2012	608458	A	RPT	0.034
04/15/2012	2012	608566	A	RPT	0.003
03/20/2013	2012	608566	A	RPT	0
07/18/2013	2013	608566	A	RPT	0
07/22/2019	2019	896990	A	RPT	8.851
04/01/2020	2020	120850	R	RPT Meter Rollover	6.870

x

**YTD Meter Amounts:	Year	Amount
	1999	3.290
	2000	4.996
	2001	2.764
	2002	2.906
	2003	2.677
	2004	2.299
	2005	1.984
	2006	4.553
	2007	3.046
	2008	5.718
	2009	4.983
	2010	1.866
	2011	0.262
	2012	0.037
	2013	0
	2019	8.851
	2020	6.870

x

*UTM location was derived from PLSS - see Help

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

7/5/22 1:43 PM

POINT OF DIVERSION SUMMARY



[USGS Home](#)
[Contact USGS](#)
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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater



Geographic Area:

United States



GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 323109103323801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323109103323801 20S.34E.34.43421

Available data for this site

Groundwater: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°31'26.6", Longitude 103°32'40.6" NAD83

Land-surface elevation 3,776 feet above NAVD88

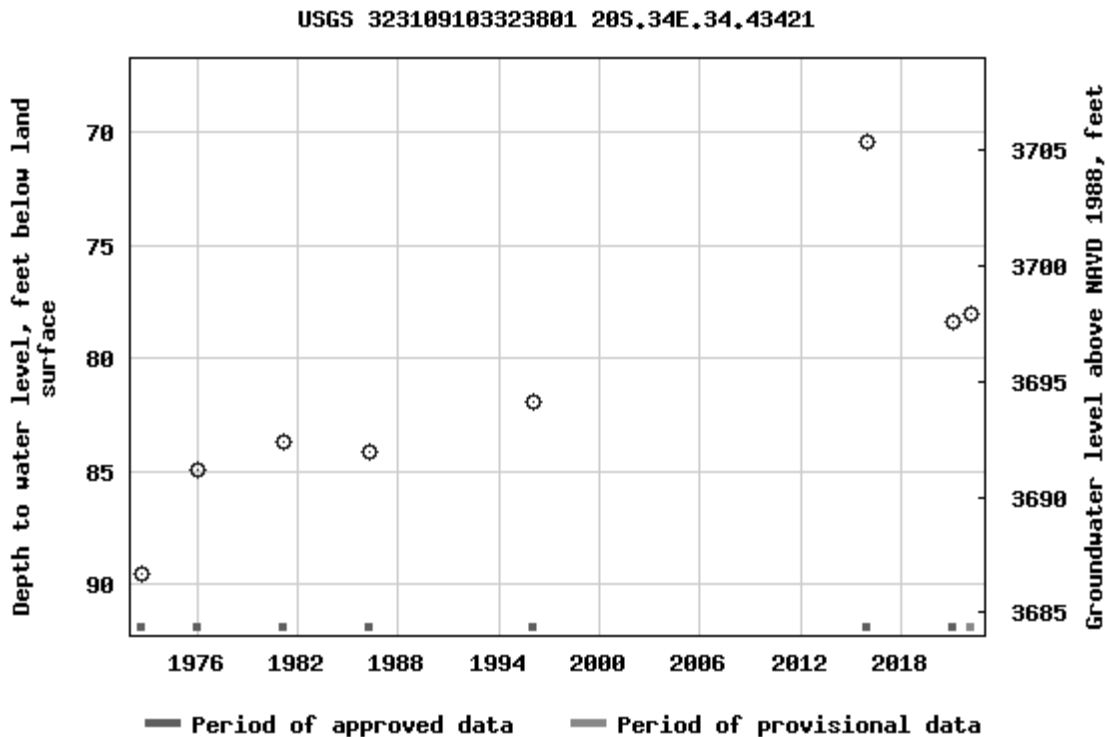
The depth of the well is 100 feet below land surface.

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



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels

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

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-05-31 17:57:36 EDT

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APPENDIX B

Photographic Log

**Photographic Log**

COG Operating, LLC

Jaguar State Com 002H & 003H

Incident Number NAPP2213643210



Photograph 1

Date: June 15, 2022

Description: Flare area during assessment activities.



Photograph 2

Date: June 15, 2022

Description: Flare area during assessment activities.



Photograph 3

Date: June 15, 2022

Description: Flare area during assessment activities.



Photograph 4

Date: June 15, 2022

Description: Flare area during assessment activities.



APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-15967-1

Laboratory Sample Delivery Group: 03E20240047

Client Project/Site: Jaguar 18 Stat Com 2H&3H

Revision: 1

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

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

Authorized for release by:

6/24/2022 2:51:01 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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www.eurofinsus.com/Env

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

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

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Laboratory Job ID: 880-15967-1
SDG: 03E20240047

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Definitions/Glossary

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Job ID: 880-15967-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-15967-1

REVISION

The report being provided is a revision of the original report sent on 6/23/2022. The report (revision 1) is being revised due to Per client email, requesting TPH re run on sample #4.

Report revision history

Receipt

The samples were received on 6/16/2022 10:40 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 0.1°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

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-27720 and analytical batch 880-27643 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-28233 and analytical batch 880-28190 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-27817 and analytical batch 880-28123 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Client Sample ID: SS01

Lab Sample ID: 880-15967-1

Date Collected: 06/15/22 08:35

Matrix: Solid

Date Received: 06/16/22 10:40

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/20/22 16:31	06/21/22 12:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/20/22 16:31	06/21/22 12:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/20/22 16:31	06/21/22 12:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/20/22 16:31	06/21/22 12:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/20/22 16:31	06/21/22 12:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/20/22 16:31	06/21/22 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/20/22 16:31	06/21/22 12:42	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/20/22 16:31	06/21/22 12:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/21/22 14:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/16/22 15:34	06/17/22 03:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/16/22 15:34	06/17/22 03:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/16/22 15:34	06/17/22 03:33	1
Total TPH	<50.0	U	50.0	mg/Kg		06/16/22 15:34	06/17/22 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	06/16/22 15:34	06/17/22 03:33	1
o-Terphenyl	131	S1+	70 - 130	06/16/22 15:34	06/17/22 03:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		4.99	mg/Kg			06/23/22 06:30	1

Client Sample ID: SS02

Lab Sample ID: 880-15967-2

Date Collected: 06/15/22 08:37

Matrix: Solid

Date Received: 06/16/22 10:40

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/20/22 16:31	06/21/22 13:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/20/22 16:31	06/21/22 13:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/20/22 16:31	06/21/22 13:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/20/22 16:31	06/21/22 13:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/20/22 16:31	06/21/22 13:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/20/22 16:31	06/21/22 13:03	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Client Sample ID: SS02

Lab Sample ID: 880-15967-2

Date Collected: 06/15/22 08:37

Matrix: Solid

Date Received: 06/16/22 10:40

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/20/22 16:31	06/21/22 13:03	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/20/22 16:31	06/21/22 13:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			06/21/22 14:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/16/22 15:34	06/17/22 03:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/16/22 15:34	06/17/22 03:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/16/22 15:34	06/17/22 03:54	1
Total TPH	<50.0	U	50.0	mg/Kg		06/16/22 15:34	06/17/22 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	06/16/22 15:34	06/17/22 03:54	1
o-Terphenyl	109		70 - 130	06/16/22 15:34	06/17/22 03:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.8		4.97	mg/Kg			06/23/22 06:58	1

Client Sample ID: SS03

Lab Sample ID: 880-15967-3

Date Collected: 06/15/22 08:39

Matrix: Solid

Date Received: 06/16/22 10:40

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/20/22 16:31	06/21/22 17:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/20/22 16:31	06/21/22 17:09	1
Ethylbenzene	0.00202		0.00199	mg/Kg		06/20/22 16:31	06/21/22 17:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/20/22 16:31	06/21/22 17:09	1
o-Xylene	0.00318		0.00199	mg/Kg		06/20/22 16:31	06/21/22 17:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/20/22 16:31	06/21/22 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	06/20/22 16:31	06/21/22 17:09	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/20/22 16:31	06/21/22 17:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00520		0.00398	mg/Kg			06/21/22 14:49	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Client Sample ID: SS03

Lab Sample ID: 880-15967-3

Date Collected: 06/15/22 08:39

Matrix: Solid

Date Received: 06/16/22 10:40

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/16/22 15:34	06/17/22 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/16/22 15:34	06/17/22 04:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/16/22 15:34	06/17/22 04:16	1
Total TPH	<49.9	U	49.9	mg/Kg		06/16/22 15:34	06/17/22 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	06/16/22 15:34	06/17/22 04:16	1
o-Terphenyl	108		70 - 130	06/16/22 15:34	06/17/22 04:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.12		5.00	mg/Kg			06/23/22 07:07	1

Client Sample ID: SS04

Lab Sample ID: 880-15967-4

Date Collected: 06/15/22 08:41

Matrix: Solid

Date Received: 06/16/22 10:40

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/20/22 16:31	06/21/22 17:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/20/22 16:31	06/21/22 17:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/20/22 16:31	06/21/22 17:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/20/22 16:31	06/21/22 17:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/20/22 16:31	06/21/22 17:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/20/22 16:31	06/21/22 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/20/22 16:31	06/21/22 17:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/20/22 16:31	06/21/22 17:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/21/22 14:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/17/22 08:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/23/22 11:40	06/24/22 02:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/23/22 11:40	06/24/22 02:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/23/22 11:40	06/24/22 02:11	1

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Client Sample Results

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Client Sample ID: SS04

Lab Sample ID: 880-15967-4

Date Collected: 06/15/22 08:41

Matrix: Solid

Date Received: 06/16/22 10:40

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		06/23/22 11:40	06/24/22 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	06/23/22 11:40	06/24/22 02:11	1
o-Terphenyl	116		70 - 130	06/23/22 11:40	06/24/22 02:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.24		4.99	mg/Kg			06/23/22 07:16	1

Surrogate Summary

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-15967-1	SS01	106	91
880-15967-1 MS	SS01	117	95
880-15967-1 MSD	SS01	108	98
880-15967-2	SS02	111	92
880-15967-3	SS03	91	88
880-15967-4	SS04	105	91
LCS 880-27986/1-A	Lab Control Sample	109	99
LCSD 880-27986/2-A	Lab Control Sample Dup	109	98
MB 880-27986/5-A	Method Blank	101	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-15961-A-21-B MS	Matrix Spike	91	92
880-15961-A-21-C MSD	Matrix Spike Duplicate	105	104
880-15967-1	SS01	120	131 S1+
880-15967-2	SS02	100	109
880-15967-3	SS03	98	108
880-15967-4	SS04	107	116
890-2448-A-1-H MS	Matrix Spike	96	95
890-2448-A-1-I MSD	Matrix Spike Duplicate	101	94
LCS 880-27720/2-A	Lab Control Sample	99	109
LCS 880-28233/2-A	Lab Control Sample	93	98
LCSD 880-27720/3-A	Lab Control Sample Dup	107	117
LCSD 880-28233/3-A	Lab Control Sample Dup	101	106
MB 880-27720/1-A	Method Blank	97	109
MB 880-28233/1-A	Method Blank	103	106

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27986/5-A

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27986

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/20/22 16:31	06/21/22 12:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/20/22 16:31	06/21/22 12:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/20/22 16:31	06/21/22 12:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/20/22 16:31	06/21/22 12:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/20/22 16:31	06/21/22 12:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/20/22 16:31	06/21/22 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/20/22 16:31	06/21/22 12:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/20/22 16:31	06/21/22 12:20	1

Lab Sample ID: LCS 880-27986/1-A

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	0.100	0.1036		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1095		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2214		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1106		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-27986/2-A

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27986

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1081		mg/Kg		108	70 - 130	2	35
Toluene	0.100	0.1076		mg/Kg		108	70 - 130	4	35
Ethylbenzene	0.100	0.1125		mg/Kg		113	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2307		mg/Kg		115	70 - 130	4	35
o-Xylene	0.100	0.1162		mg/Kg		116	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-15967-1 MS

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 27986

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.09619		mg/Kg		96	70 - 130
Toluene	<0.00199	U	0.100	0.1013		mg/Kg		101	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

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

Lab Sample ID: 880-15967-1 MS

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 27986

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.100	0.1048		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2176		mg/Kg		109	70 - 130
o-Xylene	<0.00199	U	0.100	0.1103		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-15967-1 MSD

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 27986

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.1046		mg/Kg		105	70 - 130	8	35
Toluene	<0.00199	U	0.0996	0.1013		mg/Kg		102	70 - 130	0	35
Ethylbenzene	<0.00199	U	0.0996	0.1027		mg/Kg		103	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2104		mg/Kg		106	70 - 130	3	35
o-Xylene	<0.00199	U	0.0996	0.1053		mg/Kg		106	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-27720/1-A

Matrix: Solid

Analysis Batch: 27643

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27720

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/16/22 15:34	06/16/22 21:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/16/22 15:34	06/16/22 21:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/16/22 15:34	06/16/22 21:26	1
Total TPH	<50.0	U	50.0	mg/Kg		06/16/22 15:34	06/16/22 21:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	06/16/22 15:34	06/16/22 21:26	1
o-Terphenyl	109		70 - 130	06/16/22 15:34	06/16/22 21:26	1

Lab Sample ID: LCS 880-27720/2-A

Matrix: Solid

Analysis Batch: 27643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	871.6		mg/Kg		87	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

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

Lab Sample ID: LCS 880-27720/2-A

Matrix: Solid

Analysis Batch: 27643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1033		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-27720/3-A

Matrix: Solid

Analysis Batch: 27643

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27720

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1162	*1	mg/Kg		116	70 - 130	29	20
Diesel Range Organics (Over C10-C28)	1000	1129		mg/Kg		113	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: MB 880-28233/1-A

Matrix: Solid

Analysis Batch: 28190

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28233

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/23/22 11:40	06/23/22 20:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/23/22 11:40	06/23/22 20:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/23/22 11:40	06/23/22 20:34	1
Total TPH	<50.0	U	50.0	mg/Kg		06/23/22 11:40	06/23/22 20:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	06/23/22 11:40	06/23/22 20:34	1
o-Terphenyl	106		70 - 130	06/23/22 11:40	06/23/22 20:34	1

Lab Sample ID: LCS 880-28233/2-A

Matrix: Solid

Analysis Batch: 28190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1169		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	889.0		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	93		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

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

Lab Sample ID: LCS 880-28233/2-A

Matrix: Solid

Analysis Batch: 28190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28233

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-28233/3-A

Matrix: Solid

Analysis Batch: 28190

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28233

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	832.6	*1	mg/Kg		83	70 - 130	34	20
Diesel Range Organics (Over C10-C28)	1000	925.0		mg/Kg		92	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
<i>o</i> -Terphenyl	106		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27817/1-A

Matrix: Solid

Analysis Batch: 28123

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/23/22 03:16	1

Lab Sample ID: LCS 880-27817/2-A

Matrix: Solid

Analysis Batch: 28123

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.7		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-27817/3-A

Matrix: Solid

Analysis Batch: 28123

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	264.6		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

GC VOA

Prep Batch: 27986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15967-1	SS01	Total/NA	Solid	5035	
880-15967-2	SS02	Total/NA	Solid	5035	
880-15967-3	SS03	Total/NA	Solid	5035	
880-15967-4	SS04	Total/NA	Solid	5035	
MB 880-27986/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27986/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27986/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15967-1 MS	SS01	Total/NA	Solid	5035	
880-15967-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 28004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15967-1	SS01	Total/NA	Solid	8021B	27986
880-15967-2	SS02	Total/NA	Solid	8021B	27986
880-15967-3	SS03	Total/NA	Solid	8021B	27986
880-15967-4	SS04	Total/NA	Solid	8021B	27986
MB 880-27986/5-A	Method Blank	Total/NA	Solid	8021B	27986
LCS 880-27986/1-A	Lab Control Sample	Total/NA	Solid	8021B	27986
LCSD 880-27986/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27986
880-15967-1 MS	SS01	Total/NA	Solid	8021B	27986
880-15967-1 MSD	SS01	Total/NA	Solid	8021B	27986

Analysis Batch: 28064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15967-1	SS01	Total/NA	Solid	Total BTEX	
880-15967-2	SS02	Total/NA	Solid	Total BTEX	
880-15967-3	SS03	Total/NA	Solid	Total BTEX	
880-15967-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 27643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15967-1	SS01	Total/NA	Solid	8015B NM	27720
880-15967-2	SS02	Total/NA	Solid	8015B NM	27720
880-15967-3	SS03	Total/NA	Solid	8015B NM	27720
MB 880-27720/1-A	Method Blank	Total/NA	Solid	8015B NM	27720
LCS 880-27720/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27720
LCSD 880-27720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27720

Prep Batch: 27720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15967-1	SS01	Total/NA	Solid	8015NM Prep	
880-15967-2	SS02	Total/NA	Solid	8015NM Prep	
880-15967-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-27720/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27720/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

GC Semi VOA

Analysis Batch: 27754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15967-1	SS01	Total/NA	Solid	8015 NM	
880-15967-2	SS02	Total/NA	Solid	8015 NM	
880-15967-3	SS03	Total/NA	Solid	8015 NM	
880-15967-4	SS04	Total/NA	Solid	8015 NM	

Analysis Batch: 28190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15967-4	SS04	Total/NA	Solid	8015B NM	28233
MB 880-28233/1-A	Method Blank	Total/NA	Solid	8015B NM	28233
LCS 880-28233/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28233
LCSD 880-28233/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28233

Prep Batch: 28233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15967-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-28233/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28233/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28233/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 27817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15967-1	SS01	Soluble	Solid	DI Leach	
880-15967-2	SS02	Soluble	Solid	DI Leach	
880-15967-3	SS03	Soluble	Solid	DI Leach	
880-15967-4	SS04	Soluble	Solid	DI Leach	
MB 880-27817/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27817/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27817/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 28123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15967-1	SS01	Soluble	Solid	300.0	27817
880-15967-2	SS02	Soluble	Solid	300.0	27817
880-15967-3	SS03	Soluble	Solid	300.0	27817
880-15967-4	SS04	Soluble	Solid	300.0	27817
MB 880-27817/1-A	Method Blank	Soluble	Solid	300.0	27817
LCS 880-27817/2-A	Lab Control Sample	Soluble	Solid	300.0	27817
LCSD 880-27817/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27817

Lab Chronicle

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Client Sample ID: SS01

Lab Sample ID: 880-15967-1

Date Collected: 06/15/22 08:35

Matrix: Solid

Date Received: 06/16/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			27986	06/20/22 16:31	MR	XEN MID
Total/NA	Analysis	8021B		1	28004	06/21/22 12:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	28064	06/21/22 14:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1	27754	06/17/22 08:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			27720	06/16/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	27643	06/17/22 03:33	AJ	XEN MID
Soluble	Leach	DI Leach			27817	06/17/22 12:13	SC	XEN MID
Soluble	Analysis	300.0		1	28123	06/23/22 06:30	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 880-15967-2

Date Collected: 06/15/22 08:37

Matrix: Solid

Date Received: 06/16/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			27986	06/20/22 16:31	MR	XEN MID
Total/NA	Analysis	8021B		1	28004	06/21/22 13:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	28064	06/21/22 14:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1	27754	06/17/22 08:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			27720	06/16/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	27643	06/17/22 03:54	AJ	XEN MID
Soluble	Leach	DI Leach			27817	06/17/22 12:13	SC	XEN MID
Soluble	Analysis	300.0		1	28123	06/23/22 06:58	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 880-15967-3

Date Collected: 06/15/22 08:39

Matrix: Solid

Date Received: 06/16/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			27986	06/20/22 16:31	MR	XEN MID
Total/NA	Analysis	8021B		1	28004	06/21/22 17:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	28064	06/21/22 14:49	SM	XEN MID
Total/NA	Analysis	8015 NM		1	27754	06/17/22 08:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			27720	06/16/22 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	27643	06/17/22 04:16	AJ	XEN MID
Soluble	Leach	DI Leach			27817	06/17/22 12:13	SC	XEN MID
Soluble	Analysis	300.0		1	28123	06/23/22 07:07	CH	XEN MID

Client Sample ID: SS04

Lab Sample ID: 880-15967-4

Date Collected: 06/15/22 08:41

Matrix: Solid

Date Received: 06/16/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			27986	06/20/22 16:31	MR	XEN MID
Total/NA	Analysis	8021B		1	28004	06/21/22 17:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	28064	06/21/22 14:49	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Client Sample ID: SS04

Date Collected: 06/15/22 08:41

Date Received: 06/16/22 10:40

Lab Sample ID: 880-15967-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	27754	06/17/22 08:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			28233	06/23/22 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	28190	06/24/22 02:11	SM	XEN MID
Soluble	Leach	DI Leach			27817	06/17/22 12:13	SC	XEN MID
Soluble	Analysis	300.0		1	28123	06/23/22 07:16	CH	XEN MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Ensolum
Project/Site: Jaguar 18 Stat Com 2H&3H

Job ID: 880-15967-1
SDG: 03E20240047

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-15967-1	SS01	Solid	06/15/22 08:35	06/16/22 10:40	0.5
880-15967-2	SS02	Solid	06/15/22 08:37	06/16/22 10:40	0.5
880-15967-3	SS03	Solid	06/15/22 08:39	06/16/22 10:40	0.5
880-15967-4	SS04	Solid	06/15/22 08:41	06/16/22 10:40	0.5

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



Environmental Testing
Xenco

Chain of Custody

Houston TX (281) 240-4200, Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio, TX (210) 509-3334
El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Work Order No:

159167

www.xenco.com Page 1 of 1

Project Manager	KALEI JENNINGS	Bill to (if different)	KALEI JENNINGS
Company Name	ENSOLVUM	Company Name	ENSOLVUM
Address	601 N MAZEFIELD ST	Address	601 N MAZEFIELD ST
City, State ZIP	MIDLAND, TX 79701	City, State ZIP	601 N MAZEFIELD ST
Phone	817-693-2503	Email	KJENNINGS@ENSOLVUM.COM

Work Order Comments	
Program: UST/PST	PRP Brownfields RRC Superfund
State of Project:	
Reporting Level II	Level III
Deliverables EDD	ADAPT Other

Project Name	JHAUER 18 STRT LOW 2H 3H	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush
Project Number	03E20240047	Due Date	
Project Location	32.1933, -103.1005	TAT starts the day received by the lab. If received by 4:30pm	
Sampler's Name	HADIE GREEN	Parameters	
PO #			

SAMPLE RECEIPT		Temp Blank	Yes No	Wet Ice	Yes No
Samples Received Intact		Yes No	Thermometer ID		
Cooler Custody Seals		Yes No	Correction Factor		
Sample Custody Seals		Yes No	Temperature Reading		
Total Containers		Yes No	Corrected Temperature		



880-15967 Chain of Custody

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 Ti 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 Ti U	Hg 1631 / 2451 / 7470 / 7471
Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)
Hadie Green		10/10/22	
		1040	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-15967-1

SDG Number: 03E20240047

Login Number: 15967

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



APPENDIX D

NMOCD Notification

From: [Nobui, Jennifer, EMNRD](#)
To: [Kalei Jennings](#)
Cc: [Bratcher, Mike, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: FW: [EXTERNAL] Sampling Notification (Week of 06/13/22-06/17/22)
Date: Wednesday, June 8, 2022 4:31:39 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Kalei

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Wednesday, June 8, 2022 4:21 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: Fw: [EXTERNAL] Sampling Notification (Week of 06/13/22-06/17/22)

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Wednesday, June 8, 2022 4:11 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: [EXTERNAL] Sampling Notification (Week of 06/13/22-06/17/22)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

COP plans to complete final sampling activities at the following sites the week of June 13, 2022.

Monday

- Columbus Fed 021 & 022H CTB / NAPP2203830124

Tuesday

- Battle Axe Federal Com 002H / NAPP2134740531
- Broadcaster 29 Federal 3H / NAPP2201938653 & NAPP2132773092

- Super Cobra State Com #001H / NAPP2211531225
- Raspberry State Com 001H / NAPP2213029810

Wednesday

- Raspberry State Com 001H / NAPP2213029810
- Jaguar 18 State Com 002H & 003H / NAPP2213643210
-

Thursday

Friday

Thank you,



Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC





APPENDIX E

Final C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

L48 Spill Volume Estimate Form

Received by OCD: 7/27/2022 3:52:13 PM

Page 46 of 50

Facility Name & Number:	Jaguar 18 State #2 & #3 Battery
Asset Area:	DBE
Release Discovery Date & Time:	5/7/2022 19:45
Release Type:	Oil
Provide any known details about the event:	Oil to flare due to flow line restriction between ko and heater

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	18.0	8.0	0.25	4	144.000	0.005	0.134	0.000	0.134
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Released to Imaging: 8/2/2022 11:57:33 AM

Total Volume Release:

0.134

Incident ID	NAPP2213643210
District RP	
Facility ID	fAPP2203953388
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2213643210
District RP	
Facility ID	fAPP2203953388
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: Charles Beauvais Title: Senior Environmental Engineer
Signature: Charles R. Beauvais 99 Date: 07/22/2022
email: Charles.R.Beauvais@conocophillips.com Telephone: (575) 988-2043

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2213643210
District RP	
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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: Charles Beauvais Title: Senior Environmental Engineer

Signature: Charles R. Beauvais 99 Date: 07/22/2022

email: Charles.R.Beauvais@conocophilips.com Telephone: (575) 988-2043

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: Jennifer Nobui Date: 08/02/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist 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 129255

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 129255
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	8/2/2022