ENSOLUM

July 13, 2022

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

Re: Remediation Work Plan
VGEU 30-01
Incident Number NAPP2200643457
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared the following Remediation Work Plan to document the site assessment and soil sampling activities completed to date and proposal to delineate the extent of the release at the VGEU 30-01 (Site), resulting from a flow line release of crude oil and produced water into the surrounding pasture. The following Work Plan proposes lateral and vertical delineation of the release.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 31, Township 17 South, Range 35 East, in Lea County, New Mexico (32.786389° N, 103.495278° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On December 21, 2021, a hole in the poly flowline resulted in the release of approximately 66.4 barrels (bbls) of produced water and 7.4 bbls of crude oil into the pasture where fluids pooled. Released fluids were not recovered. The previous operator, ConocoPhillips Company, reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on January 6, 2022. The release was assigned Incident Number NAPP2200643457.

The previous operator, ConocoPhillips Company, sold the asset to Maverick on June 1, 2022. Field activities at the Site were postponed until the sale of the Site was complete.

SITE CHARATERIZATION 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 between 50 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well with depth to

groundwater data is United States Geological Suvery (USGS) well 324657103292801 located approximately 368 feet southeast of the Site. The groundwater well has a reported depth to groundwater of 95 feet bgs and a total depth of 146 feet bgs. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 165 feet 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, and church. The Site is less 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). The Site is less than 300 feet from a wetland. 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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

On January 3, 2022, personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Six preliminary soil samples (SS01 through SS06) were collected within the release extent from a depth of approximately 0.25 feet bgs. The preliminary soil samples were field screened for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The preliminary 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-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil sample SS05 indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for preliminary soil samples SS01 through SS04, and SS06 indicated BTEX, TPH, and/or chloride concentrations exceeded the Site Closure Criteria.

Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation activities appear to be warranted to define the vertical and lateral extents of impacts to soil following the December 2021 release.

PROPOSED REMEDIATION WORK PLAN

The results from the preliminary soil sampling suggest soil containing elevated BTEX, TPH, and/or chloride concentrations is present across portions of the 6,660 square foot release area.

Maverick requests approval to complete the following remediation activities:

- Lateral and vertical delineation of impacted soil to below the Site Closure Criteria. Proposed delineation points are representative locations and may adjust based on the situation of active subsurface utilities or above-ground pipelines that may interfere with advancement. Proposed delineation locations are provided on Figure 3.
- Soil samples will be field screened for volatile aromatic hydrocarbons and chloride. Soils samples exhibiting the highest field screening concentrations and deepest depths from each sample location will be submitted for laboratory analysis of BTEX, TPH, and chloride.
- Following successful lateral and vertical delineation through laboratory analytical results, Maverick will proceed with providing NMOCD an addendum detailing delineation results and proposing additional remedial action, if applicable, based on results of delineation activities.

Maverick will complete the delineation activities within 60 days of the date of approval of this Remediation Work Plan by the NMOCD. A Remediation Work Plan Addendum detailing remedial action will be submitted within 30 days of receipt of laboratory analytical results. Maverick believes the scope of work described above will meet requirements set forth in 19.15.29.13 NMAC and be protective of human health, the environment, and groundwater. As such, Maverick respectfully requests approval of this Work Plan from NMOCD.

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

Sincerely,
Ensolum, LLC

Kalei Jennings
Senior Scientist

Daniel Moir, P.G.
Senior Managing Geologist

cc: Thomas Haigood, Maverick Natural Resources, LLC
New Mexico State Land Office

Appendices:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Proposed Delineation Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log

Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D Final C-141

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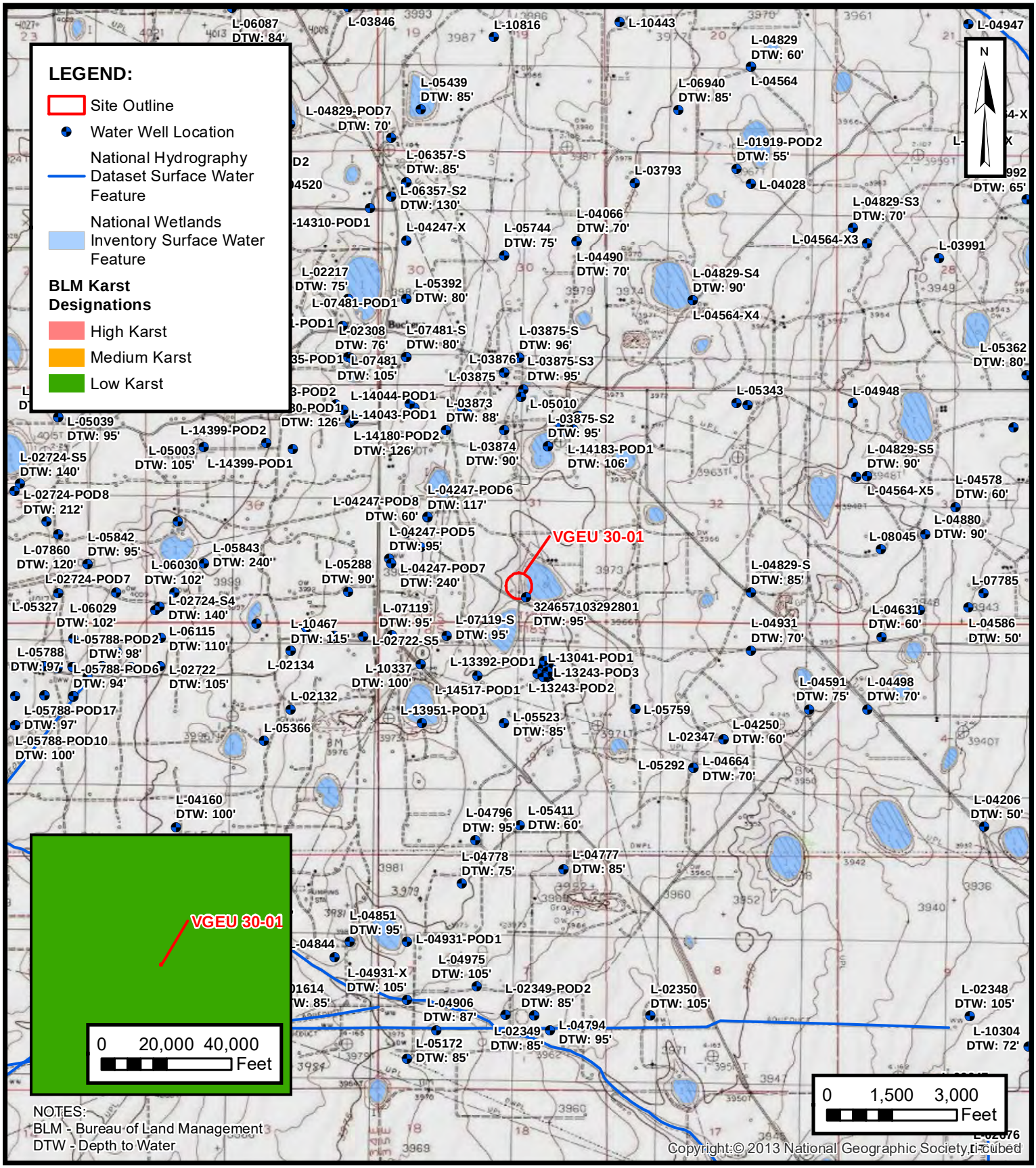
FIGURES



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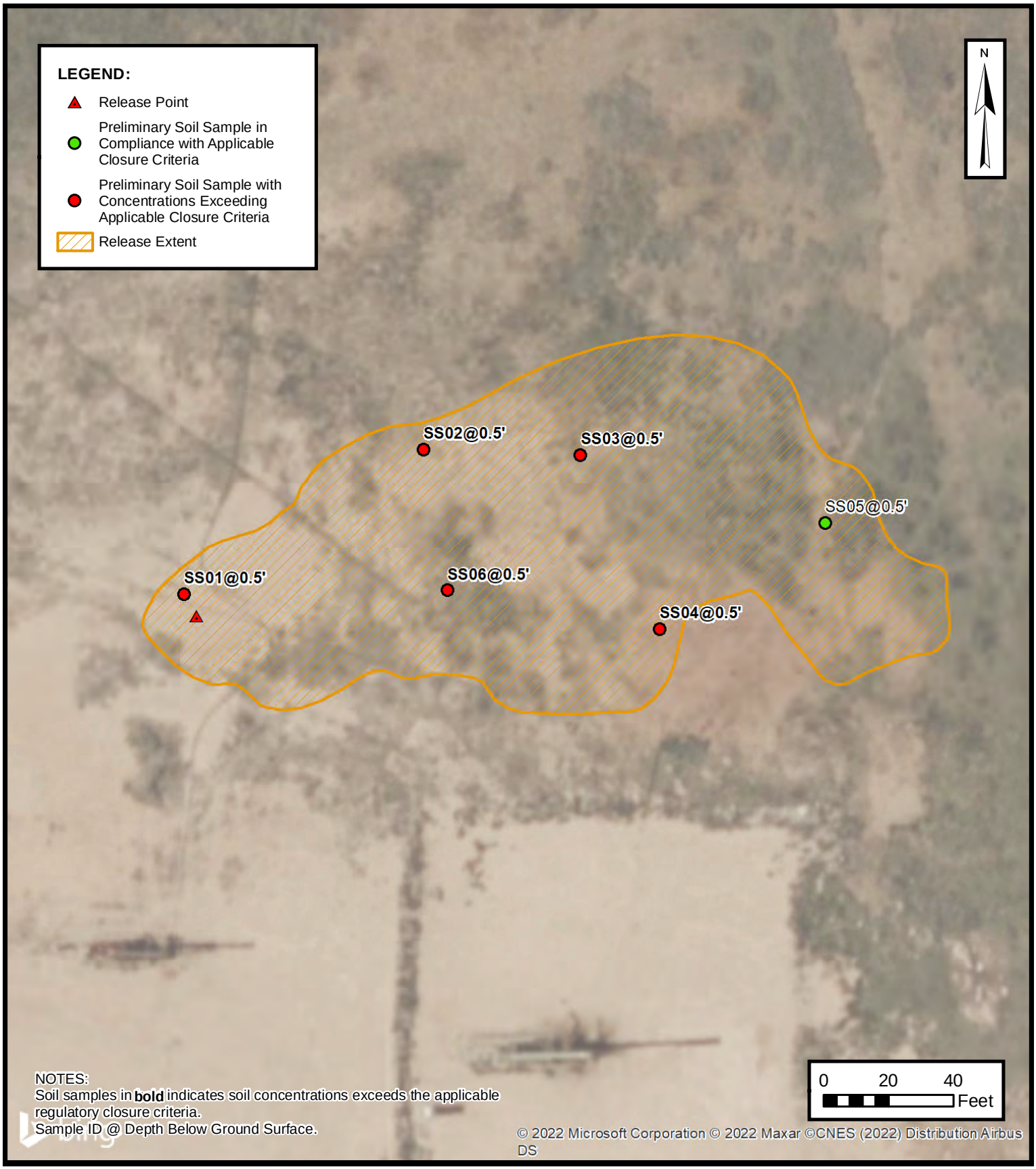
Environmental & Hydrogeologic Consultants

SITE RECEPTOR MAP

MAVERICK NATURAL RESOURCES, LLC
VGEU 30-01
NAPP2200643457
Unit O, Sec 31, T17S, R35E
Lea County, New Mexico

FIGURE
1



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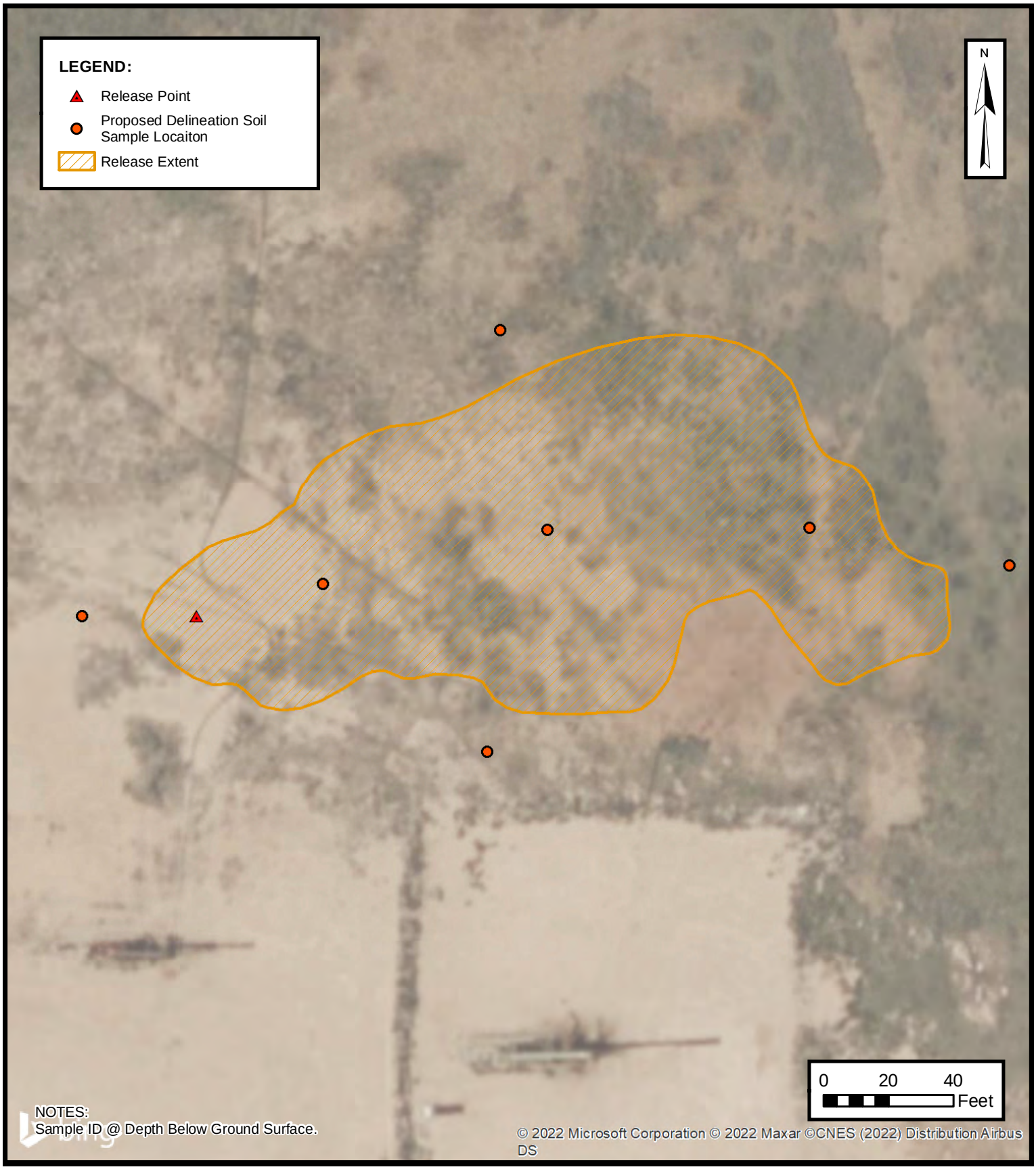
PRELIMINARY SOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC
VGEU 30-01
NAPP2200643457
Unit O, Sec 31, T17S, R35E
Lea County, New Mexico

FIGURE
2



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PROPOSED DELINEATION LOCATIONS

MAVERICK NATURAL RESOURCES, LLC
VGEU 30-01
NAPP2200643457
Unit O, Sec 31, T17S, R35E
Lea County, New Mexico

FIGURE
3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
VGEU 30-01
Maverick Natural Resources, 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	NE	100	600
Preliminary Soil Samples										
SS01	01/03/2022	0.5	<0.0401	0.102	157	2,160	<50.0	2,317	**2,320**	**4,990**
SS02	01/03/2022	0.5	<0.0398	<0.0795	<49.9	586	<49.9	586	**586**	**661**
SS03	01/03/2022	0.5	<0.0400	<0.0800	<49.9	<49.9	<49.9	<49.9	<49.9	**10,000**
SS04	01/03/2022	0.5	0.558	**97.8**	1,950	11,200	<249	13,150	**13,200**	281
SS05	01/03/2022	0.5	<0.0396	<0.0792	<50.0	<50.0	<50.0	<50.0	<50.0	51.4
SS06	01/03/2022	0.5	1.67	**80.4**	1,520	7,040	<250	8,560	**8,560**	**5,770**

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
Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

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APPENDIX A

Referenced Well Records

National Water Information System: Web Interface

USGS Water Resources

Data Category: Site Information | Geographic Area: United States | GO

Click to hideNews Bulletins

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

USGS 324657103292801 17S.35E.31.43411

Available data for this site SUMMARY OF ALL AVAILABLE DATA | GO

Well Site

DESCRIPTION:

Latitude 32°47'08", Longitude 103°29'38" NAD27
Lea County, New Mexico , Hydrologic Unit 13070007
Well depth: 146 feet
Land surface altitude: 3,968.00 feet above NGVD29.
Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

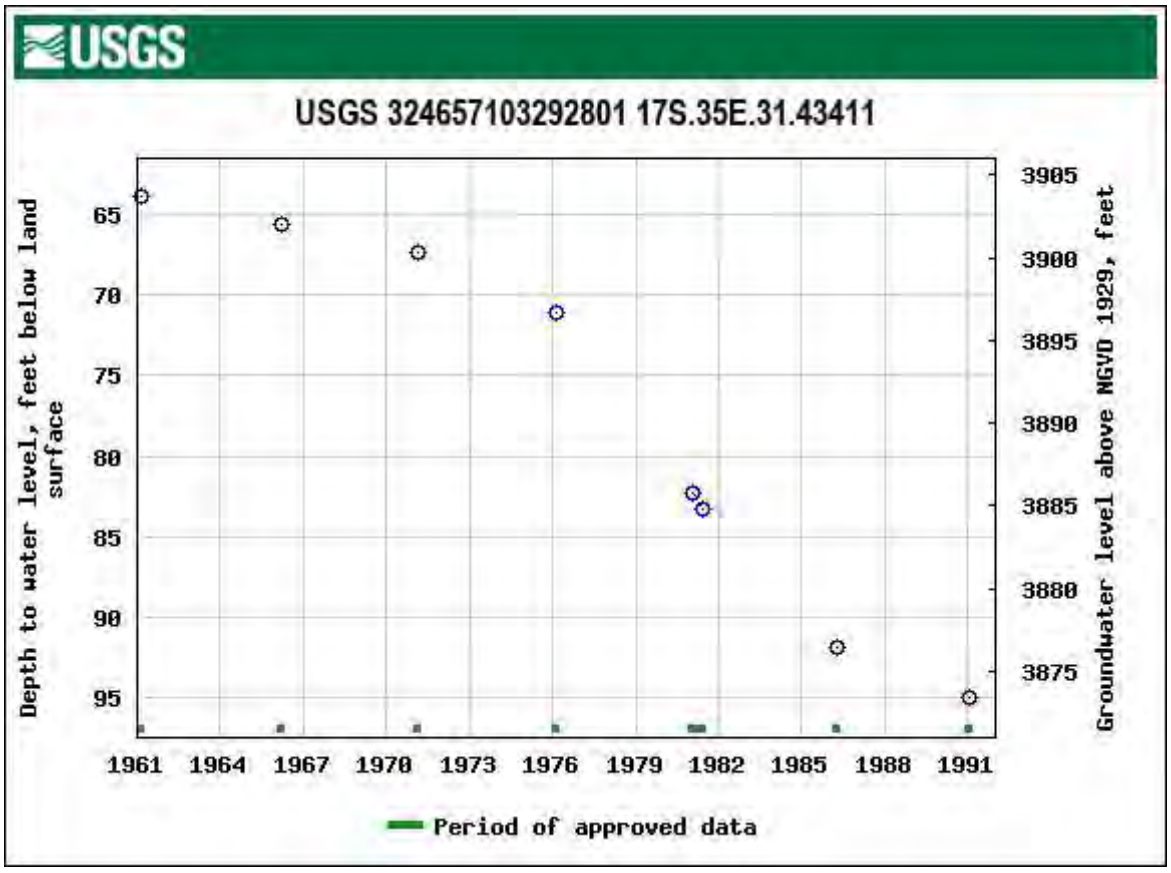
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1961-02-16	1991-01-15	6
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

---

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


USGS
USGS 324657103292801 17S.35E.31.43411
Depth to water level, feet below land surface
65
70
75
80
85
90
95
Groundwater level above NGVD 1929, feet
3905
3900
3895
3890
3885
3880
3875
1961
1964
1967
1970
1973
1976
1979
1982
1985
1988
1991
Period of approved data

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324657103292801

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

USGS 324657103292801 17S.35E.31.43411

Lea County, New Mexico
Latitude 32°47'08", Longitude 103°29'38" NAD27
Land-surface elevation 3,968.00 feet above NGVD29
The depth of the well is 146 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1961-02-16		D	62610		3904.08	NGVD29	1	Z			A
1961-02-16		D	62611		3905.59	NAVD88	1	Z			A
1961-02-16		D	72019	63.92			1	Z			A
1966-03-17		D	62610		3902.37	NGVD29	1	Z			A
1966-03-17		D	62611		3903.88	NAVD88	1	Z			A
1966-03-17		D	72019	65.63			1	Z			A
1971-02-12		D	62610		3900.62	NGVD29	1	Z			A
1971-02-12		D	62611		3902.13	NAVD88	1	Z			A
1971-02-12		D	72019	67.38			1	Z			A
1976-03-04		D	62610		3896.88	NGVD29	1	Z			A
1976-03-04		D	62611		3898.39	NAVD88	1	Z			A
1976-03-04		D	72019	71.12			1	Z			A
1981-01-20		D	62610		3885.73	NGVD29	1	Z			A
1981-01-20		D	62611		3887.24	NAVD88	1	Z			A
1981-01-20		D	72019	82.27			1	Z			A
1981-06-17		D	62610		3884.75	NGVD29	1	Z			A
1981-06-17		D	62611		3886.26	NAVD88	1	Z			A
1981-06-17		D	72019	83.25			1	Z			A
1986-04-04		D	62610		3876.11	NGVD29	1	Z			A
1986-04-04		D	62611		3877.62	NAVD88	1	Z			A
1986-04-04		D	72019	91.89			1	Z			A
1991-01-15		D	62610		3872.99	NGVD29	1	Z			A
1991-01-15		D	62611		3874.50	NAVD88	1	Z			A
1991-01-15		D	72019	95.01			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet

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

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

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-07-13 12:03:24 EDT
0.3 0.27 nadww01

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 07119 **Subbasin:** L **Cross Reference:** -

Primary Purpose: OIL OIL PRODUCTION

Primary Status: LIC LICENSED

Total Acres: 3006.2 **Subfile:** - **Header:** -

Total Diversion: 910 **Cause/Case:** -

Owner: TEXACO INC.

Documents on File

Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	485816	LIC 1982-09-24	LIC	CRT	L 07119	T	3006.2	910	
get images	485731	APPRO 1974-04-02	PMT	PBU	L 07119	T	0	910	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 07119		Shallow	1	1	1	06	18S	35E	640068	3628255*	
L 07119 S		Shallow	1	2	1	06	18S	35E	640445	3628259*	

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

Priority Summary

Priority	Status	Acres	Diversion	Pod Number	
08/29/1973	LIC	3006.2	910	L 07119	Shallow
				L 07119 S	Shallow

Place of Use

Q 256	Q 64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
				06	18S	35E	630.16	0		OIL	08/29/1973	LIC	SEE PREVIOUS PLACE SCREEN FOR DIVERSION AMOUNT
				30	17S	35E	630.56	0		OIL	08/29/1973	LIC	SEE PREVIOUS PLACE SCREEN FOR DIVERSION AMOUNTS
				36	17S	34E	640	0		OIL	08/29/1973	LIC	SEE PREVIOUS PLACE SCREEN FOR DIVERSION AMOUNT
			2	12	18S	34E	80	0		OIL	08/29/1973	LIC	SEE PREVIOUS PLACE SCREEN FOR DIVERSION AMOUNT
		4	2	25	17S	34E	360	910		OIL	08/29/1973	LIC	SEE COMMENT FOR EXPLANATION OF DIVERSION AND ACRES
	1	1	1	07	18S	35E	195.52	0		OIL	08/29/1973	LIC	SEE PREVIOUS PLACE SCREEN FOR DIVERSION AMOUNT
	3	3	4	31	17S	35E	469.96	0		OIL	08/29/1973	LIC	SEE PREVIOUS PLACE SCREEN FOR DIVERSION AMOUNT

Source

Acres	Diversion	CU	Use	Priority	Source	Description
3006.2	910		OIL	08/29/1973	GW	

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	L 07119 S	1	2	1	06	18S	35E	640445	3628259*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:	MURRELL ABBOTT				
Drill Start Date:	01/31/1978	**Drill Finish Date:**	02/10/1978	**Plug Date:**	
Log File Date:	02/13/1978	**PCW Rcv Date:**	03/14/1978	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	1000 GPM
Casing Size:	14.00	**Depth Well:**	233 feet	**Depth Water:**	95 feet

Water Bearing Stratifications:	Top	Bottom	Description
	95	233	Other/Unknown

Casing Perforations:	Top	Bottom
	148	233

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

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APPENDIX B

Photographic Log

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Photographic Log
Maverick Natural Resources, LLC
VGEU 30-01
Incident Number NAPP2200643457

Photograph 1 Date: 01/03/2022
Description: Photo of release extent taken durinng initial site assessment.

Photograph 2 Date: 01/03/2022
Description: Photo of release extent taken during initial site assessment.

Photograph 3 Date: 01/03/2022
Description: Photo of release extent taken during initial site assessment.

Photograph 4 Date: 01/03/2022
Description: Photo of release extent taken during initial site assessment.

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APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1792-1
Laboratory Sample Delivery Group: PENDING
Client Project/Site: VGEU 30-01 FLOWLINE

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Kalei Jennings

JKramer

Authorized for release by:
1/10/2022 12:07:40 PM

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

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

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

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Laboratory Job ID: 890-1792-1
SDG: PENDING

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1792-1
Project/Site: VGEU 30-01 FLOWLINE SDG: PENDING

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD 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.
¤	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: WSP USA Inc. Job ID: 890-1792-1
Project/Site: VGEU 30-01 FLOWLINE SDG: PENDING

Job ID: 890-1792-1

Laboratory: Eurofins Xenco

Narrative

Job Narrative
890-1792-1

Receipt
The samples were received on 1/3/2022 1:44 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA
Method 8021B: The following samples were diluted due to the nature of the sample matrix: SS02 (890-1792-2), SS03 (890-1792-3), SS04 (890-1792-4), SS05 (890-1792-5) and SS06 (890-1792-6) at 20.0, 20.0, 100.0, 20.0 and 100.0. Elevated reporting limits (RLs) are provided.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16102 and analytical batch 880-16116 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

Client Sample ID: SS01

Date Collected: 01/03/22 12:21
Date Received: 01/03/22 13:44
Sample Depth: 0.5

Lab Sample ID: 890-1792-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0401	U	0.0401		mg/Kg		01/05/22 12:00	01/05/22 15:52	20
Toluene	<0.0401	U	0.0401		mg/Kg		01/05/22 12:00	01/05/22 15:52	20
Ethylbenzene	<0.0401	U	0.0401		mg/Kg		01/05/22 12:00	01/05/22 15:52	20
m-Xylene & p-Xylene	**0.102**		0.0802		mg/Kg		01/05/22 12:00	01/05/22 15:52	20
o-Xylene	<0.0401	U	0.0401		mg/Kg		01/05/22 12:00	01/05/22 15:52	20
Xylenes, Total	**0.102**		0.0802		mg/Kg		01/05/22 12:00	01/05/22 15:52	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/05/22 12:00*	*01/05/22 15:52*	*20*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/05/22 12:00*	*01/05/22 15:52*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.102**		0.0802		mg/Kg			01/07/22 16:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2320**		50.0		mg/Kg			01/06/22 15:12	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	**157**		50.0		mg/Kg		01/05/22 16:34	01/07/22 11:36	1
Diesel Range Organics (Over C10-C28)	**2160**		50.0		mg/Kg		01/05/22 16:34	01/07/22 11:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/07/22 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*01/05/22 16:34*	*01/07/22 11:36*	*1*
o-Terphenyl	*114*		*70 - 130*	*01/05/22 16:34*	*01/07/22 11:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4990**		100		mg/Kg			01/06/22 01:02	20

Client Sample ID: SS02

Date Collected: 01/03/22 12:22
Date Received: 01/03/22 13:44
Sample Depth: 0.5

Lab Sample ID: 890-1792-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		01/05/22 12:00	01/05/22 16:12	20
Toluene	<0.0398	U	0.0398		mg/Kg		01/05/22 12:00	01/05/22 16:12	20
Ethylbenzene	<0.0398	U	0.0398		mg/Kg		01/05/22 12:00	01/05/22 16:12	20
m-Xylene & p-Xylene	<0.0795	U	0.0795		mg/Kg		01/05/22 12:00	01/05/22 16:12	20
o-Xylene	<0.0398	U	0.0398		mg/Kg		01/05/22 12:00	01/05/22 16:12	20
Xylenes, Total	<0.0795	U	0.0795		mg/Kg		01/05/22 12:00	01/05/22 16:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/05/22 12:00*	*01/05/22 16:12*	*20*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

Client Sample ID: SS02

Date Collected: 01/03/22 12:22
Date Received: 01/03/22 13:44
Sample Depth: 0.5

Lab Sample ID: 890-1792-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/05/22 12:00*	*01/05/22 16:12*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0795	U	0.0795	mg/Kg			01/07/22 16:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**586**		49.9	mg/Kg			01/06/22 15:12	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 F2	49.9	mg/Kg		01/05/22 16:34	01/06/22 11:05	1
Diesel Range Organics (Over C10-C28)	**586**		49.9	mg/Kg		01/05/22 16:34	01/06/22 11:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/05/22 16:34	01/06/22 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*01/05/22 16:34*	*01/06/22 11:05*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*01/05/22 16:34*	*01/06/22 11:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**661**		25.0	mg/Kg			01/06/22 01:10	5

Client Sample ID: SS03

Date Collected: 01/03/22 12:24
Date Received: 01/03/22 13:44
Sample Depth: 0.5

Lab Sample ID: 890-1792-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0400	U	0.0400	mg/Kg		01/05/22 12:00	01/05/22 16:32	20
Toluene	<0.0400	U	0.0400	mg/Kg		01/05/22 12:00	01/05/22 16:32	20
Ethylbenzene	<0.0400	U	0.0400	mg/Kg		01/05/22 12:00	01/05/22 16:32	20
m-Xylene & p-Xylene	<0.0800	U	0.0800	mg/Kg		01/05/22 12:00	01/05/22 16:32	20
o-Xylene	<0.0400	U	0.0400	mg/Kg		01/05/22 12:00	01/05/22 16:32	20
Xylenes, Total	<0.0800	U	0.0800	mg/Kg		01/05/22 12:00	01/05/22 16:32	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*01/05/22 12:00*	*01/05/22 16:32*	*20*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/05/22 12:00*	*01/05/22 16:32*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0800	U	0.0800	mg/Kg			01/07/22 16:05	1

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			01/06/22 15:12	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

Client Sample ID: SS03

Lab Sample ID: 890-1792-3
Matrix: Solid
Date Collected: 01/03/22 12:24
Date Received: 01/03/22 13:44
Sample Depth: 0.5

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	49.9		mg/Kg		01/05/22 16:34	01/06/22 12:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/05/22 16:34	01/06/22 12:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/05/22 16:34	01/06/22 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*01/05/22 16:34*	*01/06/22 12:07*	*1*
o-Terphenyl	*115*		*70 - 130*	*01/05/22 16:34*	*01/06/22 12:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10000**		49.8		mg/Kg			01/06/22 01:18	10

Client Sample ID: SS04

Lab Sample ID: 890-1792-4
Matrix: Solid
Date Collected: 01/03/22 12:26
Date Received: 01/03/22 13:44
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.558**		0.200		mg/Kg		01/05/22 12:00	01/05/22 16:53	100
Toluene	**16.3**		0.200		mg/Kg		01/05/22 12:00	01/05/22 16:53	100
Ethylbenzene	**35.5**		0.200		mg/Kg		01/05/22 12:00	01/05/22 16:53	100
m-Xylene & p-Xylene	**31.1**		0.399		mg/Kg		01/05/22 12:00	01/05/22 16:53	100
o-Xylene	**14.3**		0.200		mg/Kg		01/05/22 12:00	01/05/22 16:53	100
Xylenes, Total	**45.4**		0.399		mg/Kg		01/05/22 12:00	01/05/22 16:53	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*205*	*S1+*	*70 - 130*	*01/05/22 12:00*	*01/05/22 16:53*	*100*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/05/22 12:00*	*01/05/22 16:53*	*100*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**97.8**		0.399		mg/Kg			01/07/22 16:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**13200**		249		mg/Kg			01/06/22 15:12	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	**1950**		249		mg/Kg		01/05/22 16:34	01/06/22 12:48	5
Diesel Range Organics (Over C10-C28)	**11200**		249		mg/Kg		01/05/22 16:34	01/06/22 12:48	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		01/05/22 16:34	01/06/22 12:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*01/05/22 16:34*	*01/06/22 12:48*	*5*
o-Terphenyl	*104*		*70 - 130*	*01/05/22 16:34*	*01/06/22 12:48*	*5*

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1792-1
Project/Site: VGEU 30-01 FLOWLINE SDG: PENDING

Client Sample ID: SS04 — Lab Sample ID: 890-1792-4

Date Collected: 01/03/22 12:26 **Matrix: Solid**
Date Received: 01/03/22 13:44
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		49.5		mg/Kg			01/06/22 01:26	10

Client Sample ID: SS05 — Lab Sample ID: 890-1792-5

Date Collected: 01/03/22 12:28 **Matrix: Solid**
Date Received: 01/03/22 13:44
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0396	U	0.0396		mg/Kg		01/05/22 12:00	01/05/22 17:13	20
Toluene	<0.0396	U	0.0396		mg/Kg		01/05/22 12:00	01/05/22 17:13	20
Ethylbenzene	<0.0396	U	0.0396		mg/Kg		01/05/22 12:00	01/05/22 17:13	20
m-Xylene & p-Xylene	<0.0792	U	0.0792		mg/Kg		01/05/22 12:00	01/05/22 17:13	20
o-Xylene	<0.0396	U	0.0396		mg/Kg		01/05/22 12:00	01/05/22 17:13	20
Xylenes, Total	<0.0792	U	0.0792		mg/Kg		01/05/22 12:00	01/05/22 17:13	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/05/22 12:00*	*01/05/22 17:13*	*20*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*01/05/22 12:00*	*01/05/22 17:13*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0792	U	0.0792		mg/Kg			01/07/22 16:05	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			01/10/22 12:40	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	50.0		mg/Kg		01/05/22 16:34	01/06/22 13:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 13:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*01/05/22 16:34*	*01/06/22 13:33*	*1*
o-Terphenyl	*116*		*70 - 130*	*01/05/22 16:34*	*01/06/22 13:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.4		4.96		mg/Kg			01/06/22 01:34	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

Client Sample ID: SS06
Date Collected: 01/03/22 12:30
Date Received: 01/03/22 13:44
Sample Depth: 0.5

Lab Sample ID: 890-1792-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.67		0.201		mg/Kg		01/05/22 12:00	01/05/22 17:34	100
Toluene	18.8		0.201		mg/Kg		01/05/22 12:00	01/05/22 17:34	100
Ethylbenzene	26.8		0.201		mg/Kg		01/05/22 12:00	01/05/22 17:34	100
m-Xylene & p-Xylene	23.1		0.402		mg/Kg		01/05/22 12:00	01/05/22 17:34	100
o-Xylene	10.0		0.201		mg/Kg		01/05/22 12:00	01/05/22 17:34	100
Xylenes, Total	33.1		0.402		mg/Kg		01/05/22 12:00	01/05/22 17:34	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*183*	*S1+*	*70 - 130*	*01/05/22 12:00*	*01/05/22 17:34*	*100*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/05/22 12:00*	*01/05/22 17:34*	*100*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	80.4		0.402		mg/Kg			01/07/22 16:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8560		250		mg/Kg			01/10/22 12:40	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	1520		250		mg/Kg		01/05/22 16:34	01/06/22 13:12	5
Diesel Range Organics (Over C10-C28)	7040		250		mg/Kg		01/05/22 16:34	01/06/22 13:12	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		01/05/22 16:34	01/06/22 13:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*01/05/22 16:34*	*01/06/22 13:12*	*5*
o-Terphenyl	*110*		*70 - 130*	*01/05/22 16:34*	*01/06/22 13:12*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5770		50.0		mg/Kg			01/06/22 01:41	10

Surrogate Summary

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-9832-A-1-B MS	Matrix Spike	119	117										
880-9832-A-1-C MSD	Matrix Spike Duplicate	118	105										
890-1792-1	SS01	89	110										
890-1792-2	SS02	93	108										
890-1792-3	SS03	80	105										
890-1792-4	SS04	205 S1+	96										
890-1792-5	SS05	95	112										
890-1792-6	SS06	183 S1+	96										
LCS 880-16035/1-A	Lab Control Sample	116	107										
LCSD 880-16035/2-A	Lab Control Sample Dup	133 S1+	128										
MB 880-16035/5-A	Method Blank	100	105										

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-1792-1	SS01	117	114										
890-1792-2	SS02	120	131 S1+										
890-1792-2 MS	SS02	131 S1+	143 S1+										
890-1792-2 MSD	SS02	109	119										
890-1792-3	SS03	110	115										
890-1792-4	SS04	148 S1+	104										
890-1792-5	SS05	112	116										
890-1792-6	SS06	126	110										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO2	OTPH2										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
LCS 880-16102/2-A	Lab Control Sample	102	108										
LCSD 880-16102/3-A	Lab Control Sample Dup	108	111										
MB 880-16102/1-A	Method Blank	108	114										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16035/5-A
Matrix: Solid
Analysis Batch: 16038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16035

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/05/22 07:48	01/05/22 11:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/22 07:48	01/05/22 11:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/05/22 07:48	01/05/22 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/05/22 07:48*	*01/05/22 11:05*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/05/22 07:48*	*01/05/22 11:05*	*1*

Lab Sample ID: LCS 880-16035/1-A
Matrix: Solid
Analysis Batch: 16038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16035

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07126		mg/Kg		71	70 - 130		
Toluene			0.100	0.07102		mg/Kg		71	70 - 130		
Ethylbenzene			0.100	0.07381		mg/Kg		74	70 - 130		
m-Xylene & p-Xylene			0.200	0.1596		mg/Kg		80	70 - 130		
o-Xylene			0.100	0.08193		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-16035/2-A
Matrix: Solid
Analysis Batch: 16038

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16035

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07161		mg/Kg		72	70 - 130	0	35
Toluene			0.100	0.07438		mg/Kg		74	70 - 130	5	35
Ethylbenzene			0.100	0.08415		mg/Kg		84	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.1740		mg/Kg		87	70 - 130	9	35
o-Xylene			0.100	0.08829		mg/Kg		88	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*

Lab Sample ID: 880-9832-A-1-B MS
Matrix: Solid
Analysis Batch: 16038

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 16035

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U	0.100	0.07479		mg/Kg		74	70 - 130		
Toluene	<0.00200	U	0.100	0.06185	F1	mg/Kg		61	70 - 130		

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1792-1
Project/Site: VGEU 30-01 FLOWLINE SDG: PENDING

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

Lab Sample ID: 880-9832-A-1-B MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16038 **Prep Batch: 16035**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.100	0.04817	F1	mg/Kg		48	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.201	0.09237	F1	mg/Kg		45	70 - 130
o-Xylene	<0.00200	U	0.100	0.04840	F1	mg/Kg		48	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: 880-9832-A-1-C MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16038 **Prep Batch: 16035**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.05117	F1 F2	mg/Kg		51	70 - 130	38	35
Toluene	<0.00200	U	0.0996	0.04211	F1 F2	mg/Kg		42	70 - 130	38	35
Ethylbenzene	<0.00200	U	0.0996	0.02536	F1 F2	mg/Kg		25	70 - 130	62	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.04725	F1 F2	mg/Kg		23	70 - 130	65	35
o-Xylene	<0.00200	U	0.0996	0.02367	F1 F2	mg/Kg		23	70 - 130	69	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 880-16102/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16116 **Prep Batch: 16102**

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		01/05/22 16:34	01/06/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 10:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*01/05/22 16:34*	*01/06/22 10:03*	*1*
o-Terphenyl	*114*		*70 - 130*	*01/05/22 16:34*	*01/06/22 10:03*	*1*

Lab Sample ID: LCS 880-16102/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16116 **Prep Batch: 16102**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10			1000	968.7		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1021		mg/Kg		102	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

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

Lab Sample ID: LCS 880-16102/2-A
Matrix: Solid
Analysis Batch: 16116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16102

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-16102/3-A
Matrix: Solid
Analysis Batch: 16116

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16102

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	945.6		mg/Kg		95	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	998.5		mg/Kg		100	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 890-1792-2 MS
Matrix: Solid
Analysis Batch: 16116

Client Sample ID: SS02
Prep Type: Total/NA
Prep Batch: 16102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	996	1189		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)	586		996	1713		mg/Kg		113	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	143	S1+	70 - 130

Lab Sample ID: 890-1792-2 MSD
Matrix: Solid
Analysis Batch: 16116

Client Sample ID: SS02
Prep Type: Total/NA
Prep Batch: 16102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	922.0	F2	mg/Kg		90	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	586		999	1457		mg/Kg		87	70 - 130	16	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	119		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15959/1-A
Matrix: Solid
Analysis Batch: 16111

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			01/05/22 21:00	1

Lab Sample ID: LCS 880-15959/2-A
Matrix: Solid
Analysis Batch: 16111

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-15959/3-A
Matrix: Solid
Analysis Batch: 16111

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	246.1		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-9793-A-9-C MS
Matrix: Solid
Analysis Batch: 16111

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	36.6		248	288.7		mg/Kg		102	90 - 110		

Lab Sample ID: 880-9793-A-9-D MSD
Matrix: Solid
Analysis Batch: 16111

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	36.6		248	285.9		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1792-1
Project/Site: VGEU 30-01 FLOWLINE SDG: PENDING

GC VOA

Prep Batch: 16035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1792-1	SS01	Total/NA	Solid	5035	
890-1792-2	SS02	Total/NA	Solid	5035	
890-1792-3	SS03	Total/NA	Solid	5035	
890-1792-4	SS04	Total/NA	Solid	5035	
890-1792-5	SS05	Total/NA	Solid	5035	
890-1792-6	SS06	Total/NA	Solid	5035	
MB 880-16035/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16035/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16035/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9832-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-9832-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1792-1	SS01	Total/NA	Solid	8021B	16035
890-1792-2	SS02	Total/NA	Solid	8021B	16035
890-1792-3	SS03	Total/NA	Solid	8021B	16035
890-1792-4	SS04	Total/NA	Solid	8021B	16035
890-1792-5	SS05	Total/NA	Solid	8021B	16035
890-1792-6	SS06	Total/NA	Solid	8021B	16035
MB 880-16035/5-A	Method Blank	Total/NA	Solid	8021B	16035
LCS 880-16035/1-A	Lab Control Sample	Total/NA	Solid	8021B	16035
LCSD 880-16035/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16035
880-9832-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	16035
880-9832-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16035

Analysis Batch: 16308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1792-1	SS01	Total/NA	Solid	Total BTEX	
890-1792-2	SS02	Total/NA	Solid	Total BTEX	
890-1792-3	SS03	Total/NA	Solid	Total BTEX	
890-1792-4	SS04	Total/NA	Solid	Total BTEX	
890-1792-5	SS05	Total/NA	Solid	Total BTEX	
890-1792-6	SS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 16102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1792-1	SS01	Total/NA	Solid	8015NM Prep	
890-1792-2	SS02	Total/NA	Solid	8015NM Prep	
890-1792-3	SS03	Total/NA	Solid	8015NM Prep	
890-1792-4	SS04	Total/NA	Solid	8015NM Prep	
890-1792-5	SS05	Total/NA	Solid	8015NM Prep	
890-1792-6	SS06	Total/NA	Solid	8015NM Prep	
MB 880-16102/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16102/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16102/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1792-2 MS	SS02	Total/NA	Solid	8015NM Prep	
890-1792-2 MSD	SS02	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1792-1
Project/Site: VGEU 30-01 FLOWLINE SDG: PENDING

GC Semi VOA

Analysis Batch: 16116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1792-1	SS01	Total/NA	Solid	8015B NM	16102
890-1792-2	SS02	Total/NA	Solid	8015B NM	16102
890-1792-3	SS03	Total/NA	Solid	8015B NM	16102
890-1792-4	SS04	Total/NA	Solid	8015B NM	16102
890-1792-5	SS05	Total/NA	Solid	8015B NM	16102
890-1792-6	SS06	Total/NA	Solid	8015B NM	16102
MB 880-16102/1-A	Method Blank	Total/NA	Solid	8015B NM	16102
LCS 880-16102/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16102
LCSD 880-16102/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16102
890-1792-2 MS	SS02	Total/NA	Solid	8015B NM	16102
890-1792-2 MSD	SS02	Total/NA	Solid	8015B NM	16102

Analysis Batch: 16174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1792-1	SS01	Total/NA	Solid	8015 NM	
890-1792-2	SS02	Total/NA	Solid	8015 NM	
890-1792-3	SS03	Total/NA	Solid	8015 NM	
890-1792-4	SS04	Total/NA	Solid	8015 NM	

Analysis Batch: 16428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1792-5	SS05	Total/NA	Solid	8015 NM	
890-1792-6	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1792-1	SS01	Soluble	Solid	DI Leach	
890-1792-2	SS02	Soluble	Solid	DI Leach	
890-1792-3	SS03	Soluble	Solid	DI Leach	
890-1792-4	SS04	Soluble	Solid	DI Leach	
890-1792-5	SS05	Soluble	Solid	DI Leach	
890-1792-6	SS06	Soluble	Solid	DI Leach	
MB 880-15959/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15959/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15959/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9793-A-9-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9793-A-9-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 16111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1792-1	SS01	Soluble	Solid	300.0	15959
890-1792-2	SS02	Soluble	Solid	300.0	15959
890-1792-3	SS03	Soluble	Solid	300.0	15959
890-1792-4	SS04	Soluble	Solid	300.0	15959
890-1792-5	SS05	Soluble	Solid	300.0	15959
890-1792-6	SS06	Soluble	Solid	300.0	15959
MB 880-15959/1-A	Method Blank	Soluble	Solid	300.0	15959
LCS 880-15959/2-A	Lab Control Sample	Soluble	Solid	300.0	15959
LCSD 880-15959/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15959

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1792-1
Project/Site: VGEU 30-01 FLOWLINE SDG: PENDING

HPLC/IC (Continued)

Analysis Batch: 16111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9793-A-9-C MS	Matrix Spike	Soluble	Solid	300.0	15959
880-9793-A-9-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15959

Lab Chronicle

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

Client Sample ID: SS01

Lab Sample ID: 890-1792-1

Date Collected: 01/03/22 12:21

Matrix: Solid

Date Received: 01/03/22 13:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16035	01/05/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	16038	01/05/22 15:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16308	01/07/22 16:05	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/07/22 11:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15959	01/05/22 08:48	CA	XEN MID
Soluble	Analysis	300.0		20			16111	01/06/22 01:02	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-1792-2

Date Collected: 01/03/22 12:22

Matrix: Solid

Date Received: 01/03/22 13:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16035	01/05/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	16038	01/05/22 16:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16308	01/07/22 16:05	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 11:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15959	01/05/22 08:48	CA	XEN MID
Soluble	Analysis	300.0		5			16111	01/06/22 01:10	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-1792-3

Date Collected: 01/03/22 12:24

Matrix: Solid

Date Received: 01/03/22 13:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16035	01/05/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	16038	01/05/22 16:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16308	01/07/22 16:05	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 12:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15959	01/05/22 08:48	CA	XEN MID
Soluble	Analysis	300.0		10			16111	01/06/22 01:18	CH	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-1792-4

Date Collected: 01/03/22 12:26

Matrix: Solid

Date Received: 01/03/22 13:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	16035	01/05/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	16038	01/05/22 16:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16308	01/07/22 16:05	KL	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

Client Sample ID: SS04

Date Collected: 01/03/22 12:26
Date Received: 01/03/22 13:44

Lab Sample ID: 890-1792-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16174	01/06/22 15:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		5			16116	01/06/22 12:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	15959	01/05/22 08:48	CA	XEN MID
Soluble	Analysis	300.0		10			16111	01/06/22 01:26	CH	XEN MID

Client Sample ID: SS05

Date Collected: 01/03/22 12:28
Date Received: 01/03/22 13:44

Lab Sample ID: 890-1792-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	16035	01/05/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	16038	01/05/22 17:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16308	01/07/22 16:05	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 13:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	15959	01/05/22 08:48	CA	XEN MID
Soluble	Analysis	300.0		1			16111	01/06/22 01:34	CH	XEN MID

Client Sample ID: SS06

Date Collected: 01/03/22 12:30
Date Received: 01/03/22 13:44

Lab Sample ID: 890-1792-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	16035	01/05/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	16038	01/05/22 17:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16308	01/07/22 16:05	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		5			16116	01/06/22 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15959	01/05/22 08:48	CA	XEN MID
Soluble	Analysis	300.0		10			16111	01/06/22 01:41	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

Laboratory: Eurofins Xenco

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: VGEU 30-01 FLOWLINE

Job ID: 890-1792-1
SDG: PENDING

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1792-1	SS01	Solid	01/03/22 12:21	01/03/22 13:44	0.5
890-1792-2	SS02	Solid	01/03/22 12:22	01/03/22 13:44	0.5
890-1792-3	SS03	Solid	01/03/22 12:24	01/03/22 13:44	0.5
890-1792-4	SS04	Solid	01/03/22 12:26	01/03/22 13:44	0.5
890-1792-5	SS05	Solid	01/03/22 12:28	01/03/22 13:44	0.5
890-1792-6	SS06	Solid	01/03/22 12:30	01/03/22 13:44	0.5

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	Kalei.jennings@wsp.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	VGEU 30-01 FLOWLINE	Turn Around	
Project Number:	Pending	Routine	~~R~~
P.O. Number:		Rush:	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.4 / 1.2	Thermometer ID	T-NM-007	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

890-1792 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
SS01	S	01/03/22	12:21	0.25	1	X	X	X
SS02	S	01/03/22	12:22	0.25	1	X	X	X
SS03	S	01/03/22	12:24	0.25	1	X	X	X
SS04	S	01/03/22	12:26	0.25	1	X	X	X
SS05	S	01/03/22	12:28	0.25	1	X	X	X
SS06	S	01/03/22	12:30	0.25	1	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

DISCRETE
DISCRETE
DISCRETE
DISCRETE
DISCRETE
DISCRETE

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 SiO2 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 **1631 / 245.1 / 7470 / 7471** : Hg

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 $75.00 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 P Benner	N. Ett	1/3/22 3:44			
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1792-1
SDG Number: PENDING

Login Number: 1792
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1792-1
SDG Number: PENDING

Login Number: 1792
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Xenco
List Creation: 01/05/22 11:47 AM

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	

ENSOLUM

APPENDIX D

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	NAPP2200643457
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	217817
Contact Name	Kelsy Waggaman	Contact Telephone	(432) 688 - 9057
Contact email	Kelsy.Waggaman@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2200643457
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.786389 Longitude -103.495278
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	VGEU 30-01	Site Type	FlowLine
Date Release Discovered	December 21, 2021	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
O	31	17S	35E	Lea

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

Nature and Volume of Release

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

■ Crude Oil	Volume Released (bbls) 7.4	Volume Recovered (bbls) 0
■ Produced Water	Volume Released (bbls) 66.4	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	■ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a hole in the poly flowline.
The release was in the pasture. A vacuum truck was dispatched to remove all freestanding fluids. ConocoPhillips will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2200643457
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The release was greater than 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A

Initial Response

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

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

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

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

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

Printed Name: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 1/6/2022

email: Brittany.Esparza@ConocoPhillips.com Telephone: (432) 221-0398

OCD Only

Received by: Ramona Marcus Date: 1/6/2022

L48 Spill Volume Estimate Form

NAPP2200643457

Facility Name & Number:	VGEU 30-01
Asset Area:	Buckeye
Release Discovery Date & Time:	12/21/2021 8:30am
Release Type:	Oil Mixture
Provide any known details about the event:	Hole in 3in poly flowline. Closed 2in ball valve on tubing, casing and header to isolate fluids

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	102.0	45.0	5.00	15.32%	340.425	52.153	10.00%	5.215	46.938
Rectangle B	12.0	54.0	6.00	15.32%	57.672	8.835	10.00%	0.884	7.952
Rectangle C	54.0	9.0	2.00	15.32%	14.418	2.209	10.00%	0.221	1.988
Rectangle D	78.0	12.0	5.00	15.32%	69.420	10.635	10.00%	1.064	9.572
Rectangle E					0.000	0.000		0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
Rectangle J					0.000	0.000		0.000	0.000
					Total Volume Release:	73.832		7.383	66.449

District I
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 70862
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	1/6/2022

Incident ID	NAPP2200643457
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	50-100 (feet 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 5

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2200643457
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Thomas Haigood Title: HSE Specialist

Signature: Thomas Haigood Date: 07/15/2022

email: Thomas.Haigood@mavresources.com Telephone: ~~432-523-1807~~ 432-701-7802

OCD Only

Received by: Date:

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

Signature: Jennifer Nobui Date: 07/19/2022

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2200643457
District RP	
Facility ID	
Application ID	

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

Printed Name: Thomas Haigood Title: HSE Specialist

Signature: [signature] Date: 07/15/2022

email: Thomas.Haigood@mavresources.com Telephone: ~~432-523-1807~~ 432-701-7802

OCD Only

Received by: _____ Date: _____

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1625 N. French Dr., Hobbs, NM 88240
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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 125313

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 125313
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved.	7/19/2022