

Chris Brand Environmental Remediation/ Facility Decom Advisor

VIA ELECTRONIC MAIL

June 10, 2024

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

Re: Lovington Paddock Unit #118 Soil Remediation Work Plan Incident No. NPAC0711538356 Case No. 1RP-1235

Dear Whom it May Concern:

Please find enclosed for your files, copies of the following: Lovington Paddock Unit #118 Soil Remediation Work Plan

The Work Plan was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC) for Chevron USA Inc.

Please do not hesitate to call Scott Foord with Arcadis at 713.953.4853, or myself at 661.401.0359, should you have any questions.

Sincerely,

Chris Brand

- Encl. 2024 Work Plan Lovington Paddock Unit #118
- cc. Scott Foord Arcadis Morgan Jordan – Arcadis

Chris Brand Environmental Remediation/ Facility Decom Advisor 6301 Deauville Blvd, Midland, TX 79706 Mobile 661 401 0359 chrisbrand@chevron.com



Chevron Environmental Management Company

2024 Work Plan

Lovington Paddock Unit #118 Lea County, New Mexico Incident # nPAC0711538356

June 2024

2024 Work Plan

Lovington Paddock Unit #118 Incident # nPAC0711538356

Lea County, New Mexico

June 2024

Prepared By:

Arcadis U.S., Inc. 10205 Westheimer Road, Suite 800 Houston Texas 77042 Phone: 713 953 4800 Fax: 713 977 4620

Prepared For:

Chris Brand Project Manager CEMC 6301 Deauville Blvd. Midland, TX 79706

hot 2001

Scott Foord, PG Program Manager

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- Appendix B. Laboratory Analytical Reports
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1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Work Plan, for Chevron Environmental Management Company (CEMC) on behalf of Chevron U.S.A. Inc., through its division Chevron North America Exploration and Production Company, for the release site known as the Chevron Lovington Paddock Unit #118 (Site) located at coordinates: 32.867921, -103.302875. Details of the release are summarized in the New Mexico Oil Conservation Division (NMOCD) Initial C-141 Form included as **Appendix A**.

2 Project Summary

The Site is located on City of Lovington owned land approximately 5.80 miles southwest of the City of Lovington in Unit A, Section 1, Township 17 South, Range 36 East, Lea County, New Mexico. The site is located within a low karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # nPAC0711538356

According to the Initial C-141 Form, on May 31, 2006, a crack in a 3-inch poly line caused the release of approximately 1.5 barrels (bbls) of oil and 20 bbls of produced water to be released at the Site. Affected area was approximately a 30-foot circular diameter. According to the Initial C-141 Form submitted on April 23, 2007, the amount recovered was approximately 10 bbls of produced water and 0.5 bbls of oil. Visually confirmed contaminated soil was excavated and transported to landfill. The Initial C-141 Form was approved on April 25, 2007 and assigned remediation permit number 1RP-1235 and incident number nPAC0711538356. The Initial C-141 Form is included as **Appendix A**.

3 Site Characterization

There are several groundwater monitoring wells approximately 0.06 miles east of the Site associated with the Chevron Lovington Water Plant Site (OGRID No. 4323 - Case No. 1RP-394) with depth to groundwater verified at greater than 100 feet (ft) below ground surface (bgs) during the most recent semi-annual groundwater monitoring conducted by Arcadis. The Site is within the City of Lovington municipal well field, therefore the most stringent NMOCD closure criteria will be applied.

The following site characteristics were determined in accordance with 19.15.29 New Mexico Administrative Code (NMAC):

- Shallowest depth to groundwater beneath the area affected by the release in ft bgs: Between 100 and 500; feet;
- Method used to determine the depth to groundwater: direct measurement;
- Distance to continuously flowing watercourse or any other significant watercourse: >5 miles;
- Distance to lakebed, sinkhole, or playa lake: Between 1,000 and 0.50 miles;
- Distance to occupied permanent residence, school, hospital, institution, or church: Between 1 and 5 miles;
- Distance to spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes: Between 0.50 and 1 mile;

- Distance to any other fresh water well or spring: Between 1000 feet and 0.5 mile;
- Distance to incorporated municipal boundaries or a defined municipal fresh water well field: 0 feet, overlying, or within area;
- Distance to wetland: Between 1,000 feet and 0.50 mile;
- Distance to subsurface mine: >5 miles;
- Distance to (non-karst) unstable area: >5 miles;
- Categorize the risk of this well/site being in a karst geology: Low;
- Distance to a 100-year floodplain: Between 1 and 5 miles; and
- Did the release impact areas not on an exploration, development, production, or storage site? Yes

4 NMAC Regulatory Criteria

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for reclamation activities within the first 4 feet of soil and within soil greater than 4 feet bgs due to the Site location being within the City of Lovington municipal well field boundaries.

Constituent	Limit (mg/kg)
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO)	100 mg/kg
Chloride	600 mg/kg

5 Site Assessment Activities

In March 2023, Arcadis performed site assessment activities to evaluate soil impacts stemming from the release. A total of three sample points (SB-1 through SB-3) were advanced to depths ranging from the surface to 2 feet bgs inside and surrounding the release area to evaluate the horizontal and vertical extents of the release. Soil sample locations are shown on **Figure 3**. Soil samples were collected for chemical analyses, placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas.

The soil samples were analyzed for BTEX by United States Environmental Protection Agency (EPA) Method 8021B, TPH by EPA Method 8015, and chloride by EPA method 300.0. Soil samples analyzed for BTEX had no detections. Soil samples analyzed for TPH were reported with concentrations ranging from 24.4 J mg/kg (SB-1) to 31.4 mg/kg (SB-3). Soil samples analyzed for chloride were reported with concentrations ranging from 65 mg/kg (SB-1) to 658 mg/kg (SB-2).

Horizontal and vertical delineation of the area of concern was completed during assessment activities. Analytical data collected to date and field screening during proposed remediation activities will be utilized to guide remediation activities. Soil sample analytical results from assessment activities are summarized in **Table 1**. Laboratory reports for soil samples collected during the assessments, including analytical methods, results, and chain-of-custody documents, are attached in **Appendix B.** NMOCD correspondence is shown in **Appendix C.**

6 Proposed Work Plan

Based on the analytical data and the detected TPH and chloride concentrations in soil samples collected during site assessment activities, CEMC proposes to remediate the area of concern via excavation illustrated in orange as shown in **Figure 3** and bolded in **Table 1**.

The proposed excavation area encompasses a surface area of approximately 3,650 square feet. An estimated 300 cubic yards of soil will be removed and transported to the R360 CRI Facility, which is listed as an NMOCD approved disposal facility.

In accordance with NMAC 19.15.29.12(D)(1)(b) CEMC proposes the following confirmation sampling plan to adhere with NMOCD requirements. Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 200 square foot intervals for analysis of BTEX by EPA Method 8260, TPH for GRO, DRO, and ORO by EPA Method 8015, and chloride by EPA Method 300.0. Lateral and vertical limits of the excavation will halt once confirmation sample analytical results are in accordance with NMAC 19.15.29.12(D)(1)(c).

Backfill material will be verified to be non-waste containing prior to backfilling the remediated area by obtaining analytical data from the backfill material supplier (R360) if available, or by collecting a five-point composite sample and analyzing for BTEX by EPA Method 8260, TPH for GRO, DRO, and ORO by EPA Method 8015, and chloride by EPA Method 300.0. Following completion of excavation activities and confirmation that the backfill material is non-waste containing, the areas will be backfilled with the clean material and graded to match the original surface conditions and drainage. Approximately 3,650 square feet of the area of concern located within the pasture area will be reclaimed to original condition and re-seeded following remediation activities.

The proposed remediation activities will be implemented within 90 days following approval of this work plan by the NMOCD. The anticipated schedule includes 30 days to setup field work and confirm sub-contractors, 30 days to complete on-site remediation activities, and 30 days to prepare a soil remediation summary and closure request report.

7 Work Plan Approval Request

Upon completion of the above proposed soil remediation activities, a final closure request report describing the remediation activities and a separate reclamation report will be submitted to the NMOCD for review. If you have any questions regarding this work plan or need additional information, please do not hesitate to contact Scott Foord at 281-725-7447 or Morgan Jordan at 281-644-9437.

Tables

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	Sample Depth (feet bgs)																
Sample I.D.		Depth	Depth	Depth	Depth	Depth	Date	Benzene	Toluene	Toluene Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH GRO + DRO	TPH MRO	Total TPH
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)				
NMAC Standards			10				50					100	600				
Restoration Requirements			10				50					100	600				
SB-1	0-0.5'	03/29/23	<0.000381	<0.000451	<0.000559	<0.000341	<0.000341	26.9 J B	<15.0	26.9 J B	<15.0	26.9 J	65.2				
00-1	2'	03/29/23	<0.000383	< 0.000453	<0.000562	<0.000342	<0.000342	24.4 J B	<15.0	24.4 J B	<15.0	24.4 J	181				
SB-2	0-0.5'	03/29/23	<0.000384	<0.000455	<0.000564	< 0.000343	<0.000343	25.5 J B	<15.0	25.5 J B	<15.0	25.5 J	658				
38-2	2'	03/29/23	<0.000387	< 0.000459	<0.000568	< 0.000346	< 0.000346	30.4 J B	<15.0	30.4 J B	<15.0	30.4 J	549				
SB-3	0-0.5'	03/29/23	<0.000389	<0.000461	<0.000571	<0.000347	<0.000347	31.4 J B	<14.9	31.4 J B	<14.9	31.4 J	171 F1				
38-3	2'	03/29/23	<0.000383	<0.000454	<0.000563	<0.000343	<0.000343	31.1 J B	<15.0	31.1 J B	<15.0	31.1 J	184				

Legend:

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BOLD = Analytes exceeding Restoration Requirement

J: Result is less than the Reporting Limit but greater than or equal to the MDL and the concentration is an approximate value

B: Compound was found in the blank and sample.

F1: Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recovery exceeds control limits.

'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)

mg/kg: Milligram per Kilogram

BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes

NMAC : New Mexico Administration Code. Criteria based off of depth to groundwater of greater than 100 feet.

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH MRO: Total Petroluem Hydrocarbons Motor Oil Range Organics

TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics

Total TPH: GRO + DRO + MRO

*Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018

Notes:

1. Chloride analyzed by United States Environmental Protection Agency Method 300

2. TPH analyzed by TPH by SW8015 Mod DRO/ORO Method

3. BTEX analyzed by USEPA Method 8021B

4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

1/1

Figures

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Initial C-141 Form Incident # nPAC0711538356

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<u>District 1</u> 625 N. French Dr., Hobbs, NM 88240			ew Mex			Form C-141 Revised October 10, 2003		
District II 301 W. Grand Avenue, Artesia, NM 88210	Energy Mine							
<u>vistrict III</u> 000 Rio Brazos Road, Aztec, NM 87410			ation Div St. Franc			Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back		
<u>istrict IV</u> 220 S. St. Francis Dr., Santa Fe, NM 87505			NM 875			side of form		
	Release Notifica				ction			
			DPERA	· · · · · · · · · · · · · · · · · · ·	🖂 Initia	al Report 🔲 Final Report		
Name of Company Chevron USA In Address HCR 60 Box 423 Lovingto				Vayne Minchew No. 505-396-44	14			
Facility Name Lovington Paddock	011, INIVI 88200			e Well #118				
Surface Owner City of Lovington	Mineral Ov	wner S	State		Lease N	lo.		
	OCATION OF REI	LEASI	E A	PI #3002531	2750000			
			outh Line	Feet from the	East/West Line	County		
A 1 178 3	6E					LEA		
(83')	Latitude 32.86787	Long	itude 1	03.303	<u></u>			
(85))F REL					
ype of Release Oil and Produced Wate			Volume of	Release 1.5 bbls	oil Volume R	Recovered 10 bbls		
ource of Release Injection trunk line			and 20 bbl Date and H	water lour of Occurrenc	e Date and	Hour of Discovery		
-			S/31/06 5:00 pm 5/31/06 5:00 pm If YES, To Whom? 5/31/06 5:00 pm 5/31/06 5:00 pm					
Vas Immediate Notice Given? Yes	X No Not Required		II YES, 10	whom?				
y Whom? Larry Ridenour	· · · · · · · · · · · · · · · · · · ·		Date and H			······································		
Vas a Watercourse Reached?	Yes 🛛 No		If YES, Vo	lume Impacting t	he Watercourse.			
Describe Cause of Problem and Remedia Crack in 3" poly line causing 1.5 bbl oil a		ased. Dig	g out contar	ninated soil and to	ook to land fill. Wi	ll do final clean up after testing		
s done. Describe Area Affected and Cleanup Act 30' circle around area where leak occurr			bl of water	and .5 bbl oil. Th	is will be turned or	ver to EPI for clean up.		
hereby certify that the information given egulations all operators are required to re- bublic health or the environment. The ac- hould their operations have failed to ade or the environment. In addition, NMOCI ederal, state, or local laws and/or regulat	eport and/or file certain rel ceptance of a C-141 report equately investigate and rer D acceptance of a C-141 re	ease noti t by the N nediate c	ifications and NMOCD microsoft	nd perform correc arked as "Final Re on that pose a thre	tive actions for rele eport" does not reli eat to ground water	eases which may endanger eve the operator of liability , surface water, human health		
ignature tank	Illa			OIL CONS	SERVATION	DIVISION		
rinted Name: Larry Williams		Ap	oproved by	ENURE District Supervise	MER DOR	30-		
itle: HES Champion		Ap	oproval Dat	e: 4.25.07	LEXPIRATION 1	Date: 6 29 5 7		
-mail Address: lcwlr@chevron.com			onditions of	Approval:		Attached		
Date: 04/23/07 ttach Additional Sheets If Necessary	Phone: 505-396-4414	4						
ttach Additional Sheets If Necessary	ACO7115383	56				RP#12		

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Laboratory Analytical Reports

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Douglas Jordan ARCADIS U.S. Inc 10205 Westheimer Rd Suite 800 Houston, Texas 77042 Generated 4/11/2023 9:17:54 AM

JOB DESCRIPTION

Lovington LPU 118

JOB NUMBER

880-26567-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701





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1

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Ger 4/1

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Authorized for release by John Builes, Project Manager John.Builes@et.eurofinsus.com (561)558-4549

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-26567-1

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	Definitions/Glossary	
Client: ARCAE Project/Site: L	DIS U.S. Inc Job ID: 880-26567 ovington LPU 118	-1
Qualifiers		_
Qualifier	Qualifier Description	_
-		
GC Semi VOA		
Qualifier B	Qualifier Description	-
J	Compound was found in the blank and sample. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
5 S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC Qualifier	Quelifier Description	1
F1	Qualifier Description MS and/or MSD recovery exceeds control limits.	_
U	Indicates the analyte was analyzed for but not detected.	
0		_
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		
MCL	EPA recommended "Maximum Contaminant Level"	
MDA MDC	Minimum Detectable Activity (Radiochemistry)	
MDL	Minimum Detectable Concentration (Radiochemistry) 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)	
	Reporting Limit or Requested Limit (Radiochemistry)	
RL		
	Relative Percent Difference, a measure of the relative difference between two points	
RPD		
RL RPD TEF TEQ	Relative Percent Difference, a measure of the relative difference between two points	

.

Job ID: 880-26567-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-26567-1

Receipt

The samples were received on 3/29/2023 5:32 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 4.0°C

Receipt Exceptions

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar.

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 surrogate recovery for the blank associated with preparation batch 880-50056 and analytical batch 880-50075 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-50056/2-A) and (LCSD 880-50056/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SB-1-S-0-0.5-20230329 (880-26567-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SB-2-S-2-20230329 (880-26567-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-50056 and analytical batch 880-50075 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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 for preparation batch 880-50417 and analytical batch 880-50616 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.SB-3-S-0.5-20230329 (880-26567-5), SB-3-S-2-20230329 (880-26567-6), (880-26567-A-5-D MS) and (880-26567-A-5-E MSD)

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

Client: ARCADIS U.S. Inc Project/Site: Lovington LPU 118

Client Sample ID: SB-1-S-0-0.5-20230329 Date Collected: 03/29/23 11:16

Method: SW846 8021B - Volatile Organic Compounds (GC)

Date Received: 03/29/23 17:32

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		04/06/23 11:50	04/08/23 04:53	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		04/06/23 11:50	04/08/23 04:53	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		04/06/23 11:50	04/08/23 04:53	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		04/06/23 11:50	04/08/23 04:53	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		04/06/23 11:50	04/08/23 04:53	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		04/06/23 11:50	04/08/23 04:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				04/06/23 11:50	04/08/23 04:53	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/06/23 11:50	04/08/23 04:53	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26.9	J	50.0	15.0	mg/Kg			04/03/23 12:07	1
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.9	JB	50.0	15.0	mg/Kg		03/31/23 17:04	04/01/23 21:22	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/31/23 17:04	04/01/23 21:22	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/31/23 17:04	04/01/23 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				03/31/23 17:04	04/01/23 21:22	1
o-Terphenyl	105		70 - 130				03/31/23 17:04	04/01/23 21:22	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Soluble)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.2		5.03	0.397	mg/Kg			04/07/23 02:22	1
Client Sample ID: SB-1-S-2-2	0230329						Lab Sam	ple ID: 880-2	6567-2
ate Collected: 03/29/23 11:23 ate Received: 03/29/23 17:32								Matri	x: Solid
Method: SW846 8021B - Volatile 0	Organic Comp	ounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383		0.00199	0.000383			04/06/23 11:50	04/08/23 08:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/06/23 11:50	04/08/23 08:45	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/06/23 11:50	04/08/23 08:45	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/06/23 11:50	04/08/23 08:45	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/06/23 11:50	04/08/23 08:45	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/06/23 11:50	04/08/23 08:45	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/06/23 11:50	04/08/23 08:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				04/06/23 11:50	04/08/23 08:45	1
1,4-Difluorobenzene (Surr)	106		70 - 130				04/06/23 11:50	04/08/23 08:45	1
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analvzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.4	J	49.9	15.0	mg/Kg			04/03/23 12:07	1

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Job ID: 880-26567-1

Lab Sample ID: 880-26567-1

Matrix: Solid

5

RL

49.9

49.9

49.9

RL

5.02

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

15.0 mg/Kg

MDL Unit

0.397 mg/Kg

15.0

15.0

D

D

Prepared

03/31/23 17:04

03/31/23 17:04

03/31/23 17:04

Prepared

03/31/23 17:04

03/31/23 17:04

Prepared

Client: ARCADIS U.S. Inc Project/Site: Lovington LPU 118

Date Collected: 03/29/23 11:23

Date Received: 03/29/23 17:32

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

Client Sample ID: SB-1-S-2-20230329

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

24.4 JВ

<15.0 U

<15.0 U

105 85

181

Result Qualifier

Qualifier

%Recovery

Dil Fac

1

1

1

1

Dil Fac

Dil Fac

Matrix: Solid

Job ID: 880-26567-1

Lab Sample ID: 880-26567-2

Analyzed

04/01/23 22:26

04/01/23 22:26

04/01/23 22:26

Analyzed

04/01/23 22:26

04/01/23 22.26

Analyzed

04/07/23 02:27

Lab Sample ID: 880-26567-3

Matrix: Solid

Client Sample ID: SB-2-S-0.5-20230329 Date Collected: 03/29/23 11:25

Date Received: 03/29/23 17:32

Method: SW846 8021B - Volatile Organic Compounds (GC) Analvte Result Qualifier RL MDL Unit D Dil Fac Prepared Analvzed Benzene <0.000384 U 0.00200 0.000384 mg/Kg 04/06/23 11:50 04/08/23 09:05 1 Toluene <0.000455 U 0.00200 0.000455 mg/Kg 04/06/23 11:50 04/08/23 09:05 1 Ethylbenzene <0.000564 U 0.00200 0.000564 04/06/23 11:50 04/08/23 09:05 mg/Kg 1 m-Xylene & p-Xylene <0.00101 0.00399 0.00101 04/06/23 11:50 04/08/23 09:05 U mg/Kg o-Xylene <0.000343 U 0.00200 0.000343 mg/Kg 04/06/23 11:50 04/08/23 09:05 1 Xylenes, Total <0.00101 U 0.00399 0.00101 mg/Kg 04/06/23 11:50 04/08/23 09:05 1 %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 4-Bromofluorobenzene (Surr) 103 70 - 130 04/06/23 11:50 04/08/23 09:05 70 - 130 04/06/23 11:50 04/08/23 09:05 1,4-Difluorobenzene (Surr) 101 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.5	J	50.0	15.0	mg/Kg			04/03/23 12:07	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	25.5	JB	50.0	15.0	mg/Kg		03/31/23 17:04	04/01/23 22:47	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<15.0	U	50.0	15.0	mg/Kg		03/31/23 17:04	04/01/23 22:47	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/31/23 17:04	04/01/23 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/31/23 17:04	04/01/23 22:47	1
o-Terphenyl	86		70 - 130				03/31/23 17:04	04/01/23 22:47	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	658		4.97	0.393	mg/Kg			04/07/23 02:31	1

Client: ARCADIS U.S. Inc Project/Site: Lovington LPU 118

Client Sample ID: SB-2-S-2-20230329 Date Collected: 03/29/23 11:32

Date Received: 03/29/23 17:32

	ounds (GC)				_			
	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
								1
								1
								1
								1
<0.000346	U					04/06/23 11:50	04/08/23 09:26	1
<0.00102	U	0.00402	0.00102	mg/Kg		04/06/23 11:50	04/08/23 09:26	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
98		70 - 130				04/06/23 11:50	04/08/23 09:26	1
106		70 _ 130				04/06/23 11:50	04/08/23 09:26	1
I Range Organ	ics (DRO) (0	GC)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
30.4	J	49.9	15.0	mg/Kg			04/03/23 12:07	1
sel Range Orga	nics (DRO)	(GC)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
30.4	JB	49.9	15.0	mg/Kg		03/31/23 17:04	04/01/23 23:09	1
<15.0	U	49.9	15.0	mg/Kg		03/31/23 17:04	04/01/23 23:09	1
<15.0	U	49.9	15.0	mg/Kg		03/31/23 17:04	04/01/23 23:09	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
140	S1+	70 - 130				03/31/23 17:04	04/01/23 23:09	1
116		70 - 130				03/31/23 17:04	04/01/23 23:09	1
Chromatograp	ohy - Solubl	e						
	-	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
549		4.96	0.392	mg/Kg			04/07/23 02:36	1
5-20230329						Lab Sam	ple ID: 880-2	6567-5
							Matri	x: Solid
• •			MD	Unit	P	Broparod	Analyzod	Dil Eco
						· · · · · · · · · · · · · · · · · · ·		Dil Fac
								1
		0.00202	0.000461			04/06/23 11:50	04/08/23 09:46	1
	0	0.00202	0.000071	ing/itg		04/00/23 11.00	04/00/23 09.40	1
<0.000571		0.00404	0.00400	malk~		04/06/00 44.50	04/00/22 00.40	
<0.000371 <0.00102 <0.000347	U	0.00404	0.00102 0.000347			04/06/23 11:50 04/06/23 11:50	04/08/23 09:46 04/08/23 09:46	1
	 <0.000387 <0.000459 <0.000568 <0.00102 <0.000346 <0.00102 < <	<0.000387	<0.000387	<0.000387	<0.000387 U 0.00201 0.000387 mg/Kg <0.000459	<0.000387 U 0.00201 0.000387 mg/Kg ng/Kg <0.000459	<0.000387	-0.000387 U 0.00201 0.000387 mg/kg 0.4/06/23 0.4/08/23 0.926 -0.000568 U 0.00201 0.000459 mg/kg 0.4/06/23 0.4/06/23 0.4/06/23 0.4/06/23 0.4/06/23 0.4/06/23 0.004/06/23 0.00021 0.000366 mg/kg 0.4/06/23

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac						
4-Bromofluorobenzene (Surr)	102		70 - 130	04/06/23 11:50	04/08/23 09:46	1						
1,4-Difluorobenzene (Surr)	107		70 - 130	04/06/23 11:50	04/08/23 09:46	1						
Method: SW846 8015 NM - Diesel Bange Organics (DBO) (GC)												

Method: SW846 8015 NM - Diesei Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	31.4	J	49.8	14.9	mg/Kg			04/03/23 12:07	1

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Job ID: 880-26567-1

Lab Sample ID: 880-26567-4

Matrix: Solid

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Released to Imaging: 7/2/2024 9:41:50 AM

Client: ARCADIS U.S. Inc Project/Site: Lovington LPU 118

Client Sample ID: SB-3-S-0.5-20230329

Date Collected: 03/29/23 11:37 Date Received: 03/29/23 17:32

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	31.4	JB	49.8	14.9	mg/Kg		03/31/23 17:04	04/01/23 23:30	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<14.9	U	49.8	14.9	mg/Kg		03/31/23 17:04	04/01/23 23:30	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		03/31/23 17:04	04/01/23 23:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				03/31/23 17:04	04/01/23 23:30	1
o-Terphenyl	103		70 - 130				03/31/23 17:04	04/01/23 23:30	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	е						
	Desult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Quaimer	RL	WDL	Unit		Flepaleu	Analyzeu	DIFAC

Client Sample ID: SB-3-S-2-20230329

Date Collected: 03/29/23 11:48

Date Received: 03/29/23 17:32

Method: SW846 8021B - Volat	thod: SW846 8021B - Volatile Organic Compounds (GC)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/06/23 11:50	04/08/23 10:07	1				
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/06/23 11:50	04/08/23 10:07	1				
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/06/23 11:50	04/08/23 10:07	1				
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/06/23 11:50	04/08/23 10:07	1				
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/06/23 11:50	04/08/23 10:07	1				
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/06/23 11:50	04/08/23 10:07	1				
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	105		70 - 130				04/06/23 11:50	04/08/23 10:07	1				
1,4-Difluorobenzene (Surr)	104		70 - 130				04/06/23 11:50	04/08/23 10:07	1				

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)											
Analyte Result Qualifier RL MDL Unit D Prepared Analy											
Total TPH	31.1	J	49.9	15.0	mg/Kg			04/03/23 12:07	1		
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)											
Method: SW846 8015B NM - Dies	sel Range Orga	INICS (DRO) (C	3C)								
Method: SW846 8015B NM - Dies Analyte		Qualifier	BC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
		Qualifier			Unit mg/Kg	<u>D</u>	Prepared 03/31/23 17:04	Analyzed 04/01/23 23:52	Dil Fac		
Analyte	Result	Qualifier	RL			<u> </u>			Dil Fac		
Analyte Gasoline Range Organics	Result	Qualifier J B	RL	15.0		<u>D</u>			Dil Fac 1		

Oll Range Organics (Over C28-C36)	<15.0	U	49.9	15.0 mg/Kg	03/31/23 17:04	04/01/23 23:52	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130		03/31/23 17:04	04/01/23 23:52	1
o-Terphenyl	104		70 - 130		03/31/23 17:04	04/01/23 23:52	1
 Method: EPA 300.0 - Anions, Ion (Chromatograp	hy - Soluble	•				

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	184		5.04	0.398	mg/Kg			04/07/23 02:54	1

Job ID: 880-26567-1

Lab Sample ID: 880-26567-5 Matrix: Solid

Lab Sample ID: 880-26567-6

Matrix: Solid

5

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-26567-1	SB-1-S-0-0.5-20230329	96	103		
880-26567-2	SB-1-S-2-20230329	95	106		6
880-26567-3	SB-2-S-0.5-20230329	103	101		
880-26567-4	SB-2-S-2-20230329	98	106		
880-26567-5	SB-3-S-0.5-20230329	102	107		
880-26567-6	SB-3-S-2-20230329	105	104		8
LCS 880-50513/1-A	Lab Control Sample	105	111		
LCSD 880-50513/2-A	Lab Control Sample Dup	101	109		0
MB 880-50513/5-A	Method Blank	92	97		3
MB 880-50621/8	Method Blank	91	100		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

-			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-26567-1	SB-1-S-0-0.5-20230329	131 S1+	105
880-26567-1 MS	SB-1-S-0-0.5-20230329	127	94
880-26567-1 MSD	SB-1-S-0-0.5-20230329	124	91
880-26567-2	SB-1-S-2-20230329	105	85
880-26567-3	SB-2-S-0.5-20230329	108	86
880-26567-4	SB-2-S-2-20230329	140 S1+	116
880-26567-5	SB-3-S-0.5-20230329	128	103
880-26567-6	SB-3-S-2-20230329	126	104
LCS 880-50056/2-A	Lab Control Sample	83	64 S1-
LCSD 880-50056/3-A	Lab Control Sample Dup	79	60 S1-
MB 880-50056/1-A	Method Blank	136 S1+	116

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: ARCADIS U.S. Inc Project/Site: Lovington LPU 118

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50513/5-A Matrix: Solid Analysis Batch: 50621	МВ	МВ					d Blank fotal/NA n: 50513		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/06/23 11:50	04/08/23 03:23	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/06/23 11:50	04/08/23 03:23	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/06/23 11:50	04/08/23 03:23	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/06/23 11:50	04/08/23 03:23	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/06/23 11:50	04/08/23 03:23	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/06/23 11:50	04/08/23 03:23	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				04/06/23 11:50	04/08/23 03:23	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/06/23 11:50	04/08/23 03:23	1
Lab Sample ID: LCS 880-50513/1-A Matrix: Solid Analysis Batch: 50621					C	lient Sample I	D: Lab Control Prep Type: 1 Prep Batch	otal/NA	

Analysis Batch: 50621

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1084		mg/Kg		108	70 - 130	
Toluene	0.100	0.1043		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.09719		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.1918		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.09751		mg/Kg		98	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-50513/2-A

Matrix: Solid

Analysis Batch: 50621							Prep	Batch:	50513
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1093		mg/Kg		109	70 - 130	1	35
Toluene	0.100	0.1042		mg/Kg		104	70 - 130	0	35
Ethylbenzene	0.100	0.09465		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1857		mg/Kg		93	70 - 130	3	35
o-Xylene	0.100	0.09401		mg/Kg		94	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-50621/8 Matrix: Solid

Analysis Batch: 50621

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg			04/07/23 15:47	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg			04/07/23 15:47	1

Eurofins Midland

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

5

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QC Sample Results

Client: ARCADIS U.S. Inc Project/Site: Lovington LPU 118 Job ID: 880-26567-1

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Lab Sample ID: MB 880-50621/8 Matrix: Solid Analysis Batch: 50621										Client S	ample ID: Metho Prep Type: `	
Analysia		ИВ М 					11			Deserved	Analyzad	
Analyte	<0.0005		ualifier	R			Unit		D	Prepared	Analyzed 04/07/23 15:47	Dil Fac
Ethylbenzene						0565	mg/Kg					1
m-Xylene & p-Xylene o-Xylene	<0.001 <0.0003			0.0040 0.0020			mg/Kg mg/Kg				04/07/23 15:47 04/07/23 15:47	1
Xylenes, Total	<0.0003			0.0020			mg/Kg				04/07/23 15:47	1
Ayieries, Totai	~0.00T	01 0		0.0040	0 0.0	0101	mg/rty				04/07/23 13:47	
	Л	ИВ М	1B									
Surrogate	%Recove	ery Q	ualifier	Limits	_				_	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		91		70 - 130							04/07/23 15:47	1
1,4-Difluorobenzene (Surr)	1	00		70 - 130							04/07/23 15:47	1
Method: 8015B NM - Diesel Ra Lab Sample ID: MB 880-50056/1-A	inge Org	anio	cs (DR	.O) (GC)						Client S	ample ID: Metho	
Matrix: Solid											Prep Type:	
Analysis Batch: 50075			в								Prep Batc	n: 50056
Analyta		ИВ М	ualifier	R		мы	Unit		D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		50 J		50.			mg/Kg			03/31/23 17:04	Analyzed 04/01/23 20:18	1
(GRO)-C6-C10	20.	50 5		50.	0	10.0	ing/itg			03/31/23 17:04	04/01/20 20:10	
Diesel Range Organics (Over	<15	5.0 U		50.	0	15.0	mg/Kg			03/31/23 17:04	04/01/23 20:18	1
C10-C28)												
Oll Range Organics (Over C28-C36)	<15	5.0 U		50.	0	15.0	mg/Kg			03/31/23 17:04	04/01/23 20:18	1
	л	ив м	1B									
Surrogate	%Recove		ualifier	Limits						Prepared	Analyzed	Dil Fac
1-Chlorooctane		36 S		70 - 130	_				-	03/31/23 17:04		1
o-Terphenyl	1	16		70 - 130						03/31/23 17:04	04/01/23 20:18	1
Lab Sample ID: LCS 880-50056/2-A Matrix: Solid	\								CI	ient Sample	ID: Lab Control Prep Type:	
Analysis Batch: 50075											Prep Batc	
				Spike	LCS	LCS					%Rec	
Analyte				Added	Result	Qua	lifier	Unit		D %Rec	Limits	
Gasoline Range Organics				1000	801.6			mg/Kg		80	70 - 130	
(GRO)-C6-C10				1055							70 400	
Diesel Range Organics (Over C10-C28)				1000	794.3			mg/Kg		79	70 - 130	
	LCS L	.CS										
	Recovery	Qualifi	er	Limits								
Surrogate % 1-Chlorooctane o-Terphenyl	Recovery G 83 64 S		er	Limits 70 - 130 70 - 130								

Lab Sample ID: LCSD 880-50056/3-A				Clier	nt Sam	ple ID:	Lab Contro	I Sample	e Dup
Matrix: Solid							Prep T	Type: Tot	tal/NA
Analysis Batch: 50075							Prep	Batch:	50056
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	844.1		mg/Kg		84	70 - 130	5	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	802.1		mg/Kg		80	70 - 130	1	20
C10-C28)									

Eurofins Midland

QC Sample Results

Client: ARCADIS U.S. Inc Project/Site: Lovington LPU 118

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

Lab Sample ID: LCSD 880-5005	6/3-A					Clier	nt San	ple ID:	Lab Contro		
Matrix: Solid									Prep 1	уре: То	tal/N
Analysis Batch: 50075									Prep	Batch:	5005
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	79		70 - 130								
o-Terphenyl	60	S1-	70 _ 130								
Lab Sample ID: 880-26567-1 MS	5					CI	ient S	ample IC): SB-1-S-0	-0.5-202	3032
Matrix: Solid								- C		ype: To	
Analysis Batch: 50075										Batch:	
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	26.9	JB	998	1186		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.0	U	998	1144		mg/Kg		115	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	127		70 - 130								
o-Terphenyl	94		70 - 130								
Lab Sample ID: 880-26567-1 MS	D					CI	ient S	ample IC): SB-1-S-0	-0.5-202	3032
Matrix: Solid									Prep 1	ype: To	tal/N
Analysis Batch: 50075									Prep	Batch:	5005
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lin
Gasoline Range Organics (GRO)-C6-C10	26.9	JB	997	1135		mg/Kg		111	70 - 130	4	2
Diesel Range Organics (Over	<15.0	U	997	1100		mg/Kg		110	70 - 130	4	2
C10-C28)											
		MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	124		70 - 130								
o-Terphenyl	91		70 - 130								

Lab Sample ID: MB 880-50417/1-A Matrix: Solid Analysis Batch: 50616									Client S	Sample ID: Metho Prep Type:	
	МВ	МВ									
Analyte	Result	Qualifier	RL		MDL	Unit		D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	(0.395	mg/Kg				04/07/23 01:23	1
Lab Sample ID: LCS 880-50417/2-A								Clier	nt Sample	e ID: Lab Control	Sample
Matrix: Solid										Prep Type:	Soluble
Analysis Batch: 50616											
-		Spik	e	LCS	LCS					%Rec	
Analyte		Adde	d	Result	Qual	ifier	Unit	D	%Rec	Limits	
Chloride		25		244.6			mg/Kg		98	90 - 110	

Eurofins Midland

Job ID: 880-26567-1

QC Sample Results

Client: ARCADIS U.S. Inc Project/Site: Lovington LPU 118 Job ID: 880-26567-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-50417/3 Matrix: Solid	B-A					Cli	ent San	nple ID:	Lab Contro Prep	ol Sampl Type: S	
Analysis Batch: 50616											
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	243.0		mg/Kg		97	90 - 110	1	20
Lab Sample ID: 880-26567-5 MS							Client	Sample	ID: SB-3-5	6-0.5-202	30329
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 50616											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	171	F1	249	369.2	F1	mg/Kg		80	90 - 110		
Lab Sample ID: 880-26567-5 MSD							Client	Sample	ID: SB-3-5	6-0.5-202	30329
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 50616											
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	171	F1	249	367.0	F1	mg/Kg		79	90 _ 110	1	20

Eurofins Midland

QC Association Summary

Client: ARCADIS U.S. Inc Project/Site: Lovington LPU 118

Prep Batch: 50513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-26567-1	SB-1-S-0-0.5-20230329	Total/NA	Solid	5030B		
880-26567-2	SB-1-S-2-20230329	Total/NA	Solid	5030B		5
880-26567-3	SB-2-S-0.5-20230329	Total/NA	Solid	5030B		
880-26567-4	SB-2-S-2-20230329	Total/NA	Solid	5030B		
880-26567-5	SB-3-S-0.5-20230329	Total/NA	Solid	5030B		
880-26567-6	SB-3-S-2-20230329	Total/NA	Solid	5030B		
MB 880-50513/5-A	Method Blank	Total/NA	Solid	5030B		
LCS 880-50513/1-A	Lab Control Sample	Total/NA	Solid	5030B		8
LCSD 880-50513/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B		
Analysis Batch: 50621						9
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-26567-1	SB-1-S-0-0.5-20230329	Total/NA	Solid	8021B	50513	
880-26567-2	SB-1-S-2-20230329	Total/NA	Solid	8021B	50513	
880-26567-3	SB-2-S-0.5-20230329	Total/NA	Solid	8021B	50513	
880-26567-4	SB-2-S-2-20230329	Total/NA	Solid	8021B	50513	
880-26567-5	SB-3-S-0.5-20230329	Total/NA	Solid	8021B	50513	
880-26567-6	SB-3-S-2-20230329	Total/NA	Solid	8021B	50513	
MB 880-50513/5-A	Method Blank	Total/NA	Solid	8021B	50513	Т3
MB 880-50621/8	Method Blank	Total/NA	Solid	8021B		

Total/NA

Total/NA

Solid

Solid

GC Semi VOA

LCS 880-50513/1-A

LCSD 880-50513/2-A

Lab Control Sample

Lab Control Sample Dup

Prep Batch: 50056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26567-1	SB-1-S-0-0.5-20230329	Total/NA	Solid	8015NM Prep	
880-26567-2	SB-1-S-2-20230329	Total/NA	Solid	8015NM Prep	
880-26567-3	SB-2-S-0.5-20230329	Total/NA	Solid	8015NM Prep	
880-26567-4	SB-2-S-2-20230329	Total/NA	Solid	8015NM Prep	
880-26567-5	SB-3-S-0.5-20230329	Total/NA	Solid	8015NM Prep	
880-26567-6	SB-3-S-2-20230329	Total/NA	Solid	8015NM Prep	
MB 880-50056/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50056/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50056/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26567-1 MS	SB-1-S-0-0.5-20230329	Total/NA	Solid	8015NM Prep	
880-26567-1 MSD	SB-1-S-0-0.5-20230329	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26567-1	SB-1-S-0-0.5-20230329	Total/NA	Solid	8015B NM	50056
880-26567-2	SB-1-S-2-20230329	Total/NA	Solid	8015B NM	50056
880-26567-3	SB-2-S-0.5-20230329	Total/NA	Solid	8015B NM	50056
880-26567-4	SB-2-S-2-20230329	Total/NA	Solid	8015B NM	50056
880-26567-5	SB-3-S-0.5-20230329	Total/NA	Solid	8015B NM	50056
880-26567-6	SB-3-S-2-20230329	Total/NA	Solid	8015B NM	50056
MB 880-50056/1-A	Method Blank	Total/NA	Solid	8015B NM	50056
LCS 880-50056/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50056
LCSD 880-50056/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50056
880-26567-1 MS	SB-1-S-0-0.5-20230329	Total/NA	Solid	8015B NM	50056

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50513

50513

Job ID: 880-26567-1

8021B

8021B

QC Association Summary

GC Semi VOA (Continued)

Analysis Batch: 50075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26567-1 MSD	SB-1-S-0-0.5-20230329	Total/NA	Solid	8015B NM	50056
Analysis Batch: 501	88				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26567-1	SB-1-S-0-0.5-20230329	Total/NA	Solid	8015 NM	
880-26567-2	SB-1-S-2-20230329	Total/NA	Solid	8015 NM	
880-26567-3	SB-2-S-0.5-20230329	Total/NA	Solid	8015 NM	
880-26567-4	SB-2-S-2-20230329	Total/NA	Solid	8015 NM	
880-26567-5	SB-3-S-0.5-20230329	Total/NA	Solid	8015 NM	
880-26567-6	SB-3-S-2-20230329	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26567-1	SB-1-S-0-0.5-20230329	Soluble	Solid	DI Leach	
880-26567-2	SB-1-S-2-20230329	Soluble	Solid	DI Leach	
880-26567-3	SB-2-S-0.5-20230329	Soluble	Solid	DI Leach	
880-26567-4	SB-2-S-2-20230329	Soluble	Solid	DI Leach	
880-26567-5	SB-3-S-0.5-20230329	Soluble	Solid	DI Leach	
880-26567-6	SB-3-S-2-20230329	Soluble	Solid	DI Leach	
MB 880-50417/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50417/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50417/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26567-5 MS	SB-3-S-0.5-20230329	Soluble	Solid	DI Leach	
880-26567-5 MSD	SB-3-S-0.5-20230329	Soluble	Solid	DI Leach	

Analysis Batch: 50616

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-26567-1	SB-1-S-0-0.5-20230329	Soluble	Solid	300.0	50417
880-26567-2	SB-1-S-2-20230329	Soluble	Solid	300.0	50417
880-26567-3	SB-2-S-0.5-20230329	Soluble	Solid	300.0	50417
880-26567-4	SB-2-S-2-20230329	Soluble	Solid	300.0	50417
880-26567-5	SB-3-S-0.5-20230329	Soluble	Solid	300.0	50417
880-26567-6	SB-3-S-2-20230329	Soluble	Solid	300.0	50417
MB 880-50417/1-A	Method Blank	Soluble	Solid	300.0	50417
LCS 880-50417/2-A	Lab Control Sample	Soluble	Solid	300.0	50417
LCSD 880-50417/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50417
880-26567-5 MS	SB-3-S-0.5-20230329	Soluble	Solid	300.0	50417
880-26567-5 MSD	SB-3-S-0.5-20230329	Soluble	Solid	300.0	50417

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Job ID: 880-26567-1

Client: ARCADIS U.S. Inc

Project/Site: Lovington LPU 118

Date Collected: 03/29/23 11:16

Date Received: 03/29/23 17:32

Job ID: 880-26567-1

Lab Sample ID: 880-26567-1

Analyst

Lab Sample ID: 880-26567-2

Lab Sample ID: 880-26567-3

Prepared

or Analyzed

Matrix: Solid

Lab

9

Matrix: Solid

Matrix: Solid

Client Sample ID: SB-2-S-0.5-20230329

Date Collected: 03/29/23 11:25 Date Received: 03/29/23 17:32

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	50513	04/06/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50621	04/08/23 09:05	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50188	04/03/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50056	03/31/23 17:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/01/23 22:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50417	04/05/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50616	04/07/23 02:31	SMC	EET MID

Client Sample ID: SB-2-S-2-20230329 Date Collected: 03/29/23 11:32 Date Received: 03/29/23 17:32

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	50513	04/06/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50621	04/08/23 09:26	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50188	04/03/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50056	03/31/23 17:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/01/23 23:09	SM	EET MID

Lab Sample ID: 880-26567-4

Matrix: Solid

Eurofins Midland

Batch Batch Prep Type Туре Method

Client Sample ID: SB-1-S-0-0.5-20230329

T	otal/NA	Prep	5030B		5.05 g	5 mL	50513	04/06/23 11:50	MNR	EET MID
Т	otal/NA	Analysis	8021B	1	5 mL	5 mL	50621	04/08/23 04:53	MNR	EET MID
Т	otal/NA	Analysis	8015 NM	1			50188	04/03/23 12:07	SM	EET MID
Т	otal/NA	Prep	8015NM Prep		10.00 g	10 mL	50056	03/31/23 17:04	AJ	EET MID
Т	otal/NA	Analysis	8015B NM	1	1 uL	1 uL	50075	04/01/23 21:22	SM	EET MID
s	oluble	Leach	DI Leach		4.97 g	50 mL	50417	04/05/23 14:49	KS	EET MID
s	oluble	Analysis	300.0	1	50 mL	50 mL	50616	04/07/23 02:22	SMC	EET MID

Initial

Amount

Final

Amount

Batch

Number

Dil

Factor

Run

Client Sample ID: SB-1-S-2-20230329 Date Collected: 03/29/23 11:23

Date Received: 03/29/23 17:32

Batch Batch Dil Initial Final Batch Prepared Method or Analyzed Ргер Туре Туре Factor Amount Amount Number Run Analyst Lab 5030B Total/NA 50513 04/06/23 11:50 Prep 5.03 g 5 mL MNR EET MID Total/NA Analysis 8021B 5 mL 5 mL 50621 04/08/23 08:45 MNR EET MID 1 Total/NA 8015 NM 50188 04/03/23 12:07 EET MID Analysis 1 SM Total/NA 8015NM Prep 10 mL 50056 03/31/23 17:04 AJ EET MID Prep 10.02 g Total/NA Analysis 8015B NM 1 1 uL 1 uL 50075 04/01/23 22:26 SM EET MID DI Leach Soluble I each 4.98 g 50 mL 50417 04/05/23 14:49 KS EET MID Soluble Analysis 300.0 1 50 mL 50 mL 50616 04/07/23 02:27 SMC EET MID

Released to Imaging: 7/2/2024 9:41:50 AM

Job ID: 880-26567-1

Lab Sample ID: 880-26567-4

Lab Sample ID: 880-26567-5

Matrix: Solid

Matrix: Solid

Project/Site: Lovington LPU 118
Client Sample ID: SB-2-S-2-20230329

Client: ARCADIS U.S. Inc

Date Collected: 03/29/23 11:32 Date Received: 03/29/23 17:32

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	50417	04/05/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50616	04/07/23 02:36	SMC	EET MID

Client Sample ID: SB-3-S-0.5-20230329 Date Collected: 03/29/23 11:37 Date Received: 03/29/23 17:32

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	50513	04/06/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50621	04/08/23 09:46	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50188	04/03/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	50056	03/31/23 17:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/01/23 23:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50417	04/05/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50616	04/07/23 02:40	SMC	EET MID

Client Sample ID: SB-3-S-2-20230329 Date Collected: 03/29/23 11:48 Date Received: 03/29/23 17:32

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	50513	04/06/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50621	04/08/23 10:07	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50188	04/03/23 12:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50056	03/31/23 17:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/01/23 23:52	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50417	04/05/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50616	04/07/23 02:54	SMC	EET MID

Laboratory References:

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

Lab Sample ID: 880-26567-6

Matrix: Solid

Analysis Method

8015 NM

Prep Method

Matrix

Solid

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9 10

	Accreditation/0	Certification Summary		
Client: ARCADIS U.S. Inc				Job ID: 880-26567-1
Project/Site: Lovington LPU	118			
Laboratory: Eurofins M	lidland			
Unless otherwise noted, all analytes	for this laboratory were covered under each a	ccreditation/certification below.		
Authority	Program	Identification Number	Expiration Date	
Texas	NELAP	T104704400-22-25	06-30-23	
The following analytes are inc the agency does not offer cert	luded in this report, but the laboratory is not cer ification .	tified by the governing authority. This list ma	ay include analytes for	which

Analyte

Total TPH

Eurofins Midland

Method Summary

Client: ARCADIS U.S. Inc Project/Site: Lovington LPU 118 Job ID: 880-26567-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
	STM International		
EPA = US	Environmental Protection Agency		
SW846 =	'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E	Edition, November 1986 And Its Updates.	
Laboratory R			
EET MID	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-544	0	

Protocol References:

Laboratory References:

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Eurofins Midland
Sample Summary

Client: ARCADIS U.S. Inc Project/Site: Lovington LPU 118 Job ID: 880-26567-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
880-26567-1	SB-1-S-0-0.5-20230329	Solid	03/29/23 11:16	03/29/23 17:32	
880-26567-2	SB-1-S-2-20230329	Solid	03/29/23 11:23	03/29/23 17:32	
880-26567-3	SB-2-S-0.5-20230329	Solid	03/29/23 11:25	03/29/23 17:32	
880-26567-4	SB-2-S-2-20230329	Solid	03/29/23 11:32	03/29/23 17:32	
880-26567-5	SB-3-S-0.5-20230329	Solid	03/29/23 11:37	03/29/23 17:32	
880-26567-6	SB-3-S-2-20230329	Solid	03/29/23 11:48	03/29/23 17:32	



4/11/2023

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Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Login Number: 26567 List Number: 1 Creator: Rodriguez, Leticia

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 880-26567-1

List Source: Eurofins Midland

.



NMOCD Correspondence

Released to Imaging: 7/2/2024 9:41:50 AM

From: Sent: To: Subject: Jordan, Morgan Monday, May 6, 2024 10:53 AM Krueger, Lauren FW: [EXTERNAL] NMOCD Deadline Extension Request - City of Lovington Surface Owned Sites

Thank You,

Morgan Jordan | Project Manager | <u>douglas.jordan@arcadis.com</u> Arcadis | Arcadis U.S., Inc. <u>98 San Jacinto Blvd, Suite 414 | Austin, TX | 78701</u> | USA M. +1 281 644 9437

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ARCADIS Design & Consultancy for natural and built assets

Be green, leave it on the screen.

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Tuesday, April 30, 2024 3:41 PM
To: Foord, Scott <William.Foord@arcadis.com>
Cc: Chrisbrand@chevron.com; Michelson, Jason C <jmichelson@chevron.com>; Jordan, Morgan
<Douglas.Jordan@arcadis.com>
Subject: RE: [EXTERNAL] NMOCD Deadline Extension Request - City of Lovington Surface Owned Sites

Arcadis Warning: Exercise caution with email messages from external sources such as this message. Always verify the sender and avoid clicking on links or scanning QR codes unless certain of their authenticity.

Scott,

Based on the age of the releases, OCD will grant the following extension:

- 1. Inc. No. nPAC0617931420 LPU 45 New due date is June 26, 2024 (60 days)
- 2. Inc. No. nPAC0617434320 LPU Injection Station New due date is June 26, 2024 (60 days)
- 3. Inc. No. nPAC0711538356 LPU 118 New due date is June 30, 2024 (60 days)
- 4. Inc. No. nPAC0706832335 LSAU 24 New due date is June 26, 2024 (60 days)
- 5. Inc. No. nGRL0821729742 LSAU 73 New due date is June 30, 2024 (60 days)
- 6. Inc. No. NGRL0916650301 LSAU 82 New due date is June 30, 2024 (60 days)

Please include a copy of this email in the reports for each of the above referenced incident numbers.

Thank you, **Brittany Hall ●** Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | <u>Brittany.Hall@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or <a hr

From: Foord, Scott <<u>William.Foord@arcadis.com</u>>
Sent: Monday, April 29, 2024 8:07 AM
To: Hall, Brittany, EMNRD <<u>Brittany.Hall@emnrd.nm.gov</u>>
Cc: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>; Chrisbrand@chevron.com; Michelson, Jason C
<<u>imichelson@chevron.com</u>>; Jordan, Morgan <<u>Douglas.Jordan@arcadis.com</u>>
Subject: RE: [EXTERNAL] NMOCD Deadline Extension Request - City of Lovington Surface Owned Sites

Brittany,

Please see comments below specific to the status for each of these sites. We are currently summarizing the analytical data and preparing remediation work plans for each site that has been recently assessed. Chevron Legal has been and is currently in communication with the City of Lovington (surface owner) and we anticipate access confirmation soon. This has been ongoing since at least late 2022 to early 2023. Please let me know if you need any additional information.

- 1. Inc. No. nPAC0617931420 LPU 45 Additional soil assessment activities completed in February 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
- Inc. No. nPAC0617434320 LPU Injection Station Additional soil assessment activities completed in February and April 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
- Inc. No. nPAC0711538356 LPU 118 The latest soil assessment was completed in March 2023 and a Site Characterization and Remediation Work Plan was submitted to NMOCD in December 2023. The 2023 Site Characterization and Remediation Work Plan was rejected and is currently being revised to address NMOCD comments for resubmittal to the Portal.
- Inc. No. nPAC0706832335 LSAU 24 Additional soil assessment activities completed in February and April 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
- 5. Inc. No. nGRL0821729742 LSAU 73 The latest soil assessment was completed in March 2023 and a Site Characterization and Remediation Work Plan was submitted to NMOCD in December 2023. The 2023 Site Characterization and Remediation Work Plan was rejected and is currently being revised to address NMOCD comments for resubmittal to the Portal.
- 6. Inc. No. NGRL0916650301 LSAU 82 – The latest soil assessment was completed in March 2023 and a Site Characterization and Remediation Work Plan was submitted to NMOCD in December 2023. The 2023 Site Characterization and Remediation Work Plan was rejected and is currently being revised to address NMOCD comments for resubmittal to the Portal.

Thanks, Scott Direct 713-953-4853 Cell 281-725-7477

From: Hall, Brittany, EMNRD <<u>Brittany.Hall@emnrd.nm.gov</u>> Sent: Wednesday, April 24, 2024 11:14 AM To: Foord, Scott <<u>William.Foord@arcadis.com</u>>

Cc: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>; Chrisbrand@chevron.com; Michelson, Jason C <<u>imichelson@chevron.com</u>>; Jordan, Morgan <<u>Douglas.Jordan@arcadis.com</u>> Subject: RE: [EXTERNAL] NMOCD Deadline Extension Request - City of Lovington Surface Owned Sites

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Mr. Foord,

After reviewing the previous rejections for the 6 below mentioned incident numbers, the most recent sampling dates in those reports are all over a year old (samples are dated 3/28 or 3/29/2023). These reports were also not submitted to the OCD until December 2023.

Could you please clarify if any additional work has been done at the sites, and how long obtaining access agreements with the City of Lovington has been ongoing?

Thank you,

Brittany Hall ● Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or <a hr

From: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Sent: Wednesday, April 24, 2024 8:05 AM
To: Hall, Brittany, EMNRD <<u>Brittany.Hall@emnrd.nm.gov</u>>
Subject: Fw: [EXTERNAL] NMOCD Deadline Extension Request - City of Lovington Surface Owned Sites

FYI. All are under your review.

Nelson V.

From: Foord, Scott <<u>William.Foord@arcadis.com</u>>
Sent: Wednesday, April 3, 2024 3:41 PM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Cc: Brand, Chris M <<u>Chrisbrand@chevron.com</u>>; Michelson, Jason C <<u>jmichelson@chevron.com</u>>; Jordan, Morgan
<<u>Douglas.Jordan@arcadis.com</u>>
Subject: [EXTERNAL] NMOCD Deadline Extension Request - City of Lovington Surface Owned Sites

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Nelson,

Chevron is currently working on finalizing access agreements with the City of Lovington for the following sites. The City owns the surface. We apologize for the delays, but this has been a back and forth process with all parties and is still ongoing. We would like to please request 90-day extensions for the 4/26/2024 through 4/30/2024 deadlines to complete remediation plans or closure reports for the following sites:

- 1. Inc. No. nPAC0617931420 LPU 45
- 2. Inc. No. nPAC0617434320 LPU Injection Station
- 3. Inc. No. nPAC0711538356 LPU 118
- 4. Inc. No. nPAC0706832335 LSAU 24
- 5. Inc. No. nGRL0821729742 LSAU 73
- 6. Inc. No. NGRL0916650301 LSAU 82

Please let me know if you need any additioanl information.

Thanks, Scott

Scott Foord PG, RSO, CPM AFS Group Service Leader Arcadis U.S., Inc. 10205 Westheimer Road Suite 800 | Houston, Texas | 77042 | USA T +1 713 953 4853 M +1 281 725 7477 www.arcadis.com







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Arcadis U.S., Inc. 10205 Westheimer Road, Suite 800 Houston Texas 77042 Phone: 713 953 4800 Fax: 713 977 4620 www.arcadis.com

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District III

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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

QUESTIONS

Action 359075

QUESTIONS		
Operator:	OGRID:	
CHEVRON U S A INC	4323	
6301 Deauville Blvd	Action Number:	
Midland, TX 79706	359075	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites		
Incident ID (n#)	nPAC0711538356	
Incident Name	NPAC0711538356 LOVINGTON PADDOCK UNIT #118 @ 30-025-31275	
Incident Type	Produced Water Release	
Incident Status	Remediation Plan Received	
Incident Well	[30-025-31275] LOVINGTON PADDOCK UNIT #118	

Location of Release Source

Please answer all the questions in this group.		
Site Name	LOVINGTON PADDOCK UNIT #118	
Date Release Discovered	05/31/2006	
Surface Owner	Private	

Incident Details

Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. Τ ude Oil Released (bbls) Details d: 0 BBL 11 oct: 2 BBL (Apy) | Crude Oil | Beles L Dia

Crude Oli Released (bbis) Detalis	Cause: Pipeline (Any) Crude Oil Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Pipeline (Any) Produced Water Released: 20 BBL Recovered: 10 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 359075

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QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	359075
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

Initial Response

The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 06/27/2024

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

QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	359075
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	Direct Measurement	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)	
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Zero feet, overlying, or within area	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan

Please answer all the questions th	at apply or are indicated. This information must be provided to t	he appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	nonstrating the lateral and vertical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in mill	igrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	658
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	31.4
GRO+DRO	(EPA SW-846 Method 8015M)	31.4
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	MAC unless the site characterization report includes completed elines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date wi	I the remediation commence	07/30/2024
On what date will (or did) th	e final sampling or liner inspection occur	08/05/2024
On what date will (or was) t	he remediation complete(d)	08/29/2024
What is the estimated surfa	ce area (in square feet) that will be reclaimed	3650
What is the estimated volume (in cubic yards) that will be reclaimed		300
What is the estimated surfa	ce area (in square feet) that will be remediated	3650
What is the estimated volur	ne (in cubic yards) that will be remediated	300
These estimated dates and measu	rements are recognized to be the best guess or calculation at the	time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that propose	d remediation measures may have to be minimally adjusted in a	ccordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

QUESTIONS, Page 3

Action 359075

District I

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

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

QUESTIONS, Page 4

Action 359075

QUESTIONS (continued)				
Operator: CHEVRON U S A INC 6301 Deauville Blvd	OGRID: 4323 Action Number:			
Midland, TX 79706	359075 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)			
QUESTIONS				
Remediation Plan (continued)				
Please answer all the questions that apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.			
This remediation will (or is expected to) utilize the following processes to remedi	iate / reduce contaminants:			
(Select all answers below that apply.)				
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes			
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [fEEM0112340644]			
OR which OCD approved well (API) will be used for off-site disposal	Not answered.			
OR is the off-site disposal site, to be used, out-of-state	Not answered.			
OR is the off-site disposal site, to be used, an NMED facility	Not answered.			

(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) No (In Situ) Soil Vapor Extraction No (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) No (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) No (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) No Ground Water Abatement pursuant to 19.15.30 NMAC No OTHER (Non-listed remedial process) No Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation 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. Name: Chris Brand Title: Lead Environmental Specialist I hereby agree and sign off to the above statement Email: Chrisbrand@chevron.com Date: 06/27/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS,	Page	5

Action 359075

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QUESTIONS (continued)		
Operator: CHEVRON U S A INC	OGRID: 4323	
6301 Deauville Blvd Midland, TX 79706	Action Number: 359075	
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Defermel Demusete Only		

Delenal Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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

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

QUESTIONS, Page 6

Action 359075

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QUESTIONS (continued) Operator: OGRID: CHEVRON US A INC 4323 6301 Deauville Blvd Action Number Midland, TX 79706 359075 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) QUESTIONS Sampling Event Information Last sampling notification (C-141N) recorded {Unavailable.}

No

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission

Released to Imaging: 7/2/2024 9:41:50 AM

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

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District III

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District IV

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

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CONDITIONS

Action 359075

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	359075
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan approved. The site will need to meet the requirements of 19.15.29.13 NMAC at time of remediation as the site is no longer reasonably needed for production or subsequent drilling activities. A reclamation report will need to be submitted either with the closure report or immediately following the approval of the closure report.	7/2/2024
bhall	The soil cover (backfill) must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	7/2/2024
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/2/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/2/2024
bhall	Submit a complete report through the OCD Permitting website by October 2, 2024.	7/2/2024