



Chevron Environmental Management Company

Remediation Summary and Soil Closure Request Report

Jal Landfarm, Permit NM-02-0012

Centralized Surface Waste Management Facility

Lea County, New Mexico

March 10, 2025

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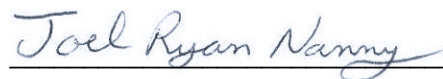
Chevron Environmental Management Company

Our Ref:

30269201



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Acronyms and Abbreviations

Arcadis	Arcadis U.S., Inc.
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CEMC	Chevron Environmental Management Company
Closure Report	Remediation Summary and Soil Closure Request Report
DRO	diesel range organics
GRO	gasoline range organics
mg/kg	milligram per kilogram
NMAC	New Mexico Administrative Code
NMOCD	New Mexico Oil Conservation Division
ORO	oil range organics
Site	Jal Landfarm, located in Lea County, New Mexico
TPH	total petroleum hydrocarbons
USEPA	United States Environmental Protection Agency
Work Plan	Site Characterization and Soil Remediation Work Plan

Remediation Summary and Soil Closure Request Report

1 Introduction

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) prepared this Remediation Summary and Soil Closure Request Report (Closure Report) for the Jal Landfarm, a centralized surface waste management facility (permit NM-02-0012), located in Lea County, New Mexico (Site; Figure 1).

On August 2, 1999, the New Mexico Oil Conservation Division (NMOCD) issued Texaco Exploration and Production, Inc. (a legacy company of Chevron North America Exploration & Production Company) permit NM-02-0012, under Rule 711, to construct and operate a surface waste management facility (NMOCD 1999). The permit was subsequently amended on March 26, 2003, and April 1, 2004 (NMOCD 2003a, 2004). On February 14, 2007, Rule 711 was repealed and replaced by 19.15.36 New Mexico Administrative Code (NMAC; February 14, 2007, as amended through June 30, 2016), commonly referred to as Part 36. On December 24, 2020, the NMOCD approved a minor permit modification request that permitted future site activities to be conducted in accordance with Part 36 requirements in lieu of the requirements of provision 19.15.36.20 of Part 36 (NMOCD 2020). Since 2021, the Site has been operated in accordance with the requirements specified in permit NM-02-0012 and Part 36.

Under Part 36, semiannual vadose zone monitoring is performed at the Site to determine whether a release has occurred in the vadose zone. Analytical results of vadose zone monitoring indicated minor impacts of total petroleum hydrocarbons (TPH) and chloride to the vadose zone. In response, CEMC submitted an Initial Form C-141 (i.e., Release Notification Form) to the NMOCD on April 21, 2021, to notify the division of the release in accordance with 19.15.29 NMAC. The NMOCD approved the Release Notification Form on May 18, 2021, and assigned the Site incident number NAPP2113741693. The initial and final C-141 Forms are provided in Appendix A. On November 13, 2024, CEMC submitted a Site Characterization and Soil Remediation Work Plan (Work Plan) for the Site, which provides a site assessment and characterization and describes the remediation plan to address TPH impacts (Arcadis 2024). The NMOCD approved the Work Plan on November 19, 2024 (NMOCD 2024), and remediation activities were performed from January 27 through February 10, 2025. This Closure Report provides a summary of remediation activities completed at the Site and provides documentation of the excavation areas and confirmation sample results. CEMC requested an extension for submittal of the Closure Report, which NMOCD approved on February 17, 2025; the extension request approval is provided in Appendix B.

2 Site Description and Background

The Site is located approximately 4.5 miles northwest of Jal, New Mexico (western half of Section 17, Township 24 south, Range 36 east) north of Cooper Cemetery Road (Figure 1). The Site is located within the Tertiary-age Ogallala Formation, which comprises fluvial sand, silt, clay, and localized gravel. A caliche layer, approximately 9 to 21 feet thick, forms a hard, erosion-resistant pedogenic calcrete approximately 4 feet below ground surface (bgs). Caliche has been observed as shallow as 1½ to 3 feet bgs at the Site. The Ogallala Formation is underlain by the Chinle Formation, which comprises clay, silty clay, shale, and sandstone. Depth to water beneath the landfarm is expected to range from 148 to 174 feet bgs, and regional groundwater flows from northwest to southeast (Stantec Consulting Services Inc. 2017).

The Site was originally approved for 56 landfarm cells (cells) to be constructed over approximately 320 acres; however, only 26 cells were constructed (Cells 1 through 26). Each cell is approximately 300 by 625 feet (approximately 4.3 acres). On July 29, 2003, the NMOCD approved discontinuation of maintenance for Cells 1

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through 16 because the soil was treated to applicable standards required under permit NM-02-0012 and no additional soil lifts were planned for these cells (NMOCD 2003b). On February 19, 2008, the NMOCD approved the discontinuation of maintenance and closure for Cells 22, 23, and 24 because the treatment zone closure performance standards specified in provision 19.15.36.15(F) NMAC were met (NMOCD 2008). Active maintenance has continued at Cells 17, 18, 19, 20, 21, 25, and 26; however, no soil has been added to these cells since 2007.

In December 2020, the NMOCD approved a minor permit modification request to discontinue tilling operations at Cells 17, 18, 19, 20, 21, 25, and 26 (NMOCD 2020). Current site activities include monthly site inspections and semiannual treatment zone and vadose zone monitoring. The treatment zone is defined as surface soils (0 to 12 inches bgs) within a cell that were originally impacted by petroleum hydrocarbons and placed in the landfarm for treatment via bioremediation. The vadose zone is defined as native unimpacted subsurface soils that underlie treatment zone soils.

In October 2024, a site assessment was completed at Cells 17, 18, 19, 20, 21, 25, and 26 to delineate TPH; benzene, toluene, ethylbenzene, and xylenes (BTEX); and chloride based on the 19.15.29 NMAC closure criteria for soils impacted by a release (Part 29 closure criteria; see Section 3) and determine if vadose zone soils were impacted by the treatment zone. Select locations within Cells 17 and 21 exceeded the Part 29 closure criteria for chloride or TPH and required remediation. Additionally, during the December 2024 semiannual vadose zone monitoring event, select locations within Cells 17, 18, and 21 exceeded the Part 29 closure criteria for chloride or TPH and also required remediation. The impacted locations are shown on Figure 2.

3 Closure Criteria for Soils Impacted by a Release

The Part 29 closure criteria are determined based on the depth to groundwater and the characteristics of the Site. Given the volume of the release at the Site is unknown, the most stringent Part 29 closure criteria are used. According to Table I of provision 19.15.29.12 NMAC, the Part 29 closure criteria listed in Table 1, below, apply to the Site for remediation and reclamation of the first 4 feet of native soil.

Table 1 Applicable Part 29 Closure Criteria for Site Soils

Depth to Groundwater	Constituent	Part 29 Closure Criteria (mg/kg)	Restoration Criteria (mg/kg) ^a
Less than 50 feet	Chloride	600	600
	TPH (GRO+DRO+ORO)	100	100
	BTEX	50	50
	Benzene	10	10

Notes:

^a Revised screening limit and restoration criteria within the first 4 feet bgs in accordance with 19.15.29 NMAC, effective August 14, 2018.

DRO = diesel range organics

GRO = gasoline range organics

mg/kg = milligram per kilogram

ORO = oil range organics

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4 Soil Remediation Activities

Soil remediation activities were performed from January 27 through February 10, 2025, at the following locations (Figure 2):

- Cell 17, Squares 5, 22, 24, and 66;
- Cell 18, Square 180; and
- Cell 21, Squares 44, 89, 125, and 150.

At each location, treatment zone soil was removed using a backhoe and stockpiled adjacent to the excavation area. Impacted vadose zone soil was then excavated to a maximum depth of approximately 5 to 6 feet below native ground surface. To determine the extent of impacted soil that needed to be removed, soils were screened in the field at 1-foot intervals using a photoionization detector and Hach® chloride test strips.

Once the desired excavation depth and width were achieved at each location (based on field screening results), a five-point composite confirmation sample was collected from the excavation floor and sidewalls. Before sample collection, the backhoe bucket was decontaminated using an Alconox® solution and a pressure washer with potable rinse water. After decontamination was complete, the backhoe bucket was used to collect representative soil from the excavation area. Discrete samples collected from the excavation floor and sidewalls were homogenized in a stainless-steel bowl and placed into laboratory-supplied 4-ounce jars. The sample jars were placed on ice and shipped or delivered to Eurofins Environmental Testing laboratory in Midland, Texas, or Stafford, Texas, for analysis of the following constituents:

- TPH as GRO, DRO, and oil range organics by United States Environmental Protection Agency (USEPA) Method 8015B NM;
- BTEX by USEPA Method 8021B or 8260C; and
- Chloride by USEPA Method 300.

If the confirmation sample results were less than the Part 29 closure criteria, the excavation was considered complete, and the location was backfilled with clean material. If the confirmation sample results exceeded the Part 29 closure criteria, additional soil was removed, and a new confirmation sample was collected to determine whether additional soil removal would be required or if the excavation was complete. A total of 10 confirmation samples were collected from the excavated areas.

Confirmation sample analytical results are provided in Table 2 and shown on Figure 2. Laboratory analytical reports are provided in Appendix C. A photolog of the excavation activities is provided in Appendix D.

In total, approximately 140 cubic yards of impacted soil were excavated and placed in hauling trucks for transport to an offsite disposal facility. The impacted soil was disposed of at the Gandy Marley facility in Caprock, New Mexico as Class 2 non-hazardous material. The disposal manifests are provided in Appendix E.

5 Restoration, Reclamation, and Re-Vegetation Plan

Once the confirmation sample results confirmed excavation was complete, each excavation area was backfilled with locally sourced, non-impacted material from the Gandy Marley facility in Caprock, New Mexico, and covered with treatment zone soil that had been removed prior to excavation. A five-point composite soil sample was collected from the backfill material and analyzed for TPH, BTEX, and chloride. The analytical results confirmed the backfill material was below the Part 29 closure criteria (Table 2).

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Provision 19.15.29.13 NMAC outlines the restoration, reclamation, and re-vegetation requirements under Part 29. Specifically, provision 19.15.29.13(E) states that “the surface restoration, reclamation and re-vegetation obligations imposed by federal or state agencies or tribes on lands managed or owned by those agencies supersede these provisions and govern the obligations of any responsible party subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment”. CEMC will comply with the applicable requirements of Part 36 in lieu of the requirements of provision 19.15.29.13 NMAC.

6 Soil Closure Request

Remediation activities at the Site were conducted in accordance with 19.15.29 NMAC. Impacted soil was excavated and disposed of offsite. Confirmation sample results indicate that concentrations of TPH, BTEX, and chloride are below the Part 29 closure criteria in each excavation area.

No additional soil assessment or remediation activities are recommended for the Site at this time. CEMC requests closure of the vadose zone under 19.15.29 NMAC.

Remediation Summary and Soil Closure Request Report

7 References

- Arcadis. 2024. Site Characterization and Soil Remediation Work Plan. Jal Landfarm NM-020-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 13.
- NMOCD. 1999. OCD Rule 711 Permit Approval NM-01-0012 and NM-02-0013. August 2.
- NMOCD. 2003a. Letter from R. Anderson (NMOCD) to R. Bailey (Chevron Texaco) re: Texaco E&P Inc. OCD Rule 711 Permit Approval NM-02-0012. March 26.
- NMOCD. 2003b. Letter from M. Kieling (NMOCD) to R. Bailey (Chevron Texaco) re: Approval of Discontinued Maintenance Status and Application of Additional Lifts, Texaco E&P Inc., Permit NM-02-0012. July 29.
- NMOCD. 2004. Letter from R. Anderson (NMOCD) to R. Bailey (Chevron) re: Chevron USA Inc. Surface Waste Management Facility Permits NM-02-0012 and NM-02-0013. April 1.
- NMOCD. 2008. Letter from B. Jones (NMOCD) to R. Bailey (CEMC) re: 2007 Sampling Results of Chevron Centralized Landfarm. Centralized Surface Waste Management Facility Permit NM-2-0012. Lea County, New Mexico. February 19.
- NMOCD. 2020. Letter from B. Jones (NMOCD) to R. Speer (Chevron) re: Approval of Permit Minor Modification and Exception Requests. Jal Landfarm, Permit NM2-012. December 24.
- NMOCD. 2024. Email from C. Walker (NMOCD) to A. Barnhill (CEMC) re: The Oil Conservation Division (OCD) has approved the application, Application ID: 403258. November 19.
- Stantec Consulting Services Inc. 2017. Draft Landfarm Operations, Sampling and Analysis Plan. Chevron Jal Landfarm Surface Waste Management Facility Number NM-02-0012. September 27.

Table



Table 2
January 2025 Confirmation Sample Results
Remediation Summary and Soil Closure Request Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

Constituent Method Units Part 29 Closure Criteria					DRO USEPA SW846 8015B NM mg/kg		GRO USEPA SW846 8015B NM mg/kg		ORO USEPA SW846 8015B NM mg/kg		TPH ^a -- mg/kg 100		Benzene USEPA SW846 8021B mg/kg 10		Toluene USEPA SW846 8021B mg/kg --		Ethylbenzene USEPA SW846 8021B mg/kg --		Xylenes, Total USEPA SW846 8021B mg/kg --		BTEX ^b -- mg/kg 50		Chloride USEPA 300.0 mg/kg 600	
					--		--		--		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
					Result	Qualifier	Result	Qualifier	Result	Qualifier														
Cell	Zone	Sample ID	Sample Date	Excavation Depth (feet bngs)																				
--	Borrow	Borrow-S-250205	2/5/2025	--	18.6	U	17.8	U	18.6	U	18.6	--	0.00172	U	0.00246	U	0.00134	U*	0.00282	U	0.00282	--	75.4	--
Cell 17	Vadose	Cell 17-Square 22-E-6-250129	1/29/2025	6	15.1	U	14.5	U	15.1	U	15.1	--	0.00139	U	0.00199	U	0.00108	U	0.00228	U	0.00228	--	739	--
Cell 17	Vadose	Cell 17-Square 22-E-6-250204	2/4/2025	6	16.3	U	15.6	U	16.3	U	16.3	--	0.00150	U	0.00215	U	0.00117	U	0.00246	U	0.00246	--	482	--
Cell 17	Vadose	Cell 17-Square 24-E-6-250128	1/28/2025	6	23.2	U	23.2	U	23.2	U	23.2	--	0.000419	U	0.00133	U	0.000333	U	0.000474	U	0.00133	--	484	--
Cell 17	Vadose	Cell 17-Square 5-E-5-250130	1/30/2025	5	16.0	U	15.4	U	16.0	U	16.0	--	0.00148	U	0.00212	U	0.00116	U	0.00242	U	0.00242	--	290	--
Cell 17	Vadose	Cell 17-Square 66-E-5-250129	1/29/2025	5	15.1	U	14.5	U	15.1	U	15.1	--	0.00138	U	0.00198	U	0.00108	U	0.00226	U	0.00226	--	146	--
Cell 18	Vadose	Cell 18-Square 180-E-5-250206	2/6/2025	5	20.2	U	19.4	U	20.2	U	20.2	--	0.00186	U	0.00268	U	0.00146	U	0.00306	U	0.00306	--	7.26	J
Cell 21	Vadose	Cell 21-Square 125-E-5-250206	2/6/2025	5	17.2	U	16.6	U	17.2	U	17.2	--	0.00158	U	0.00227	U	0.00124	U	0.00260	U	0.00260	--	4.53	J
Cell 21	Vadose	Cell 21-Square 150-E-6-250205	2/5/2025	6	16.2	U	15.5	U	16.2	U	16.2	--	0.00148	U	0.00213	U	0.00116	U	0.00244	U	0.00244	--	12.4	--
Cell 21	Vadose	Cell 21-Square 44-E-5-250205	2/5/2025	5	16.2	U	15.5	U	16.2	U	16.2	--	0.00148	U	0.00213	U	0.00116	U	0.00244	U	0.00244	--	4.54	J
Cell 21	Vadose	Cell 21-Square 89-E-5-250205	2/5/2025	5	16.2	U	15.6	U	16.2	U	16.2	--	0.00149	U	0.00214	U	0.00116	U	0.00244	U	0.00244	--	4.64	J

Notes:

1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.

2. Detected values highlighted in gray exceed the 19.15.29 NMAC closure criteria for soils impacted by a release.

3. Cell 17-Square24-E-6-250128 was analyzed for BTEX using method USEPA SW846 8260C.

^a TPH is the sum of detected DRO, GRO, and ORO fractions. If all results are non-detect, the highest non-detect value is presented.

^b BTEX is the sum of benzene, toluene, ethylbenzene, and xylenes. If all results are non-detect, the highest non-detect value is presented.

-- = not applicable	mg/kg = milligram per kilogram
bngs = below native ground surface	MQL = method quantitation limit
BTEX = benzene, toluene, ethylbenzene, and xylenes	NMAC = New Mexico Administrative Code
DRO = diesel range organics	ORO = oil range organics
GRO = gasoline range organics	SDL = sample detection limit
ID = identification	SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," Third Edition, November 1986 and its updates
LCS = laboratory control sample	TPH = total petroleum hydrocarbon
LCSD = laboratory control sample duplicate	USEPA = United States Environmental Protection Agency

Qualifier

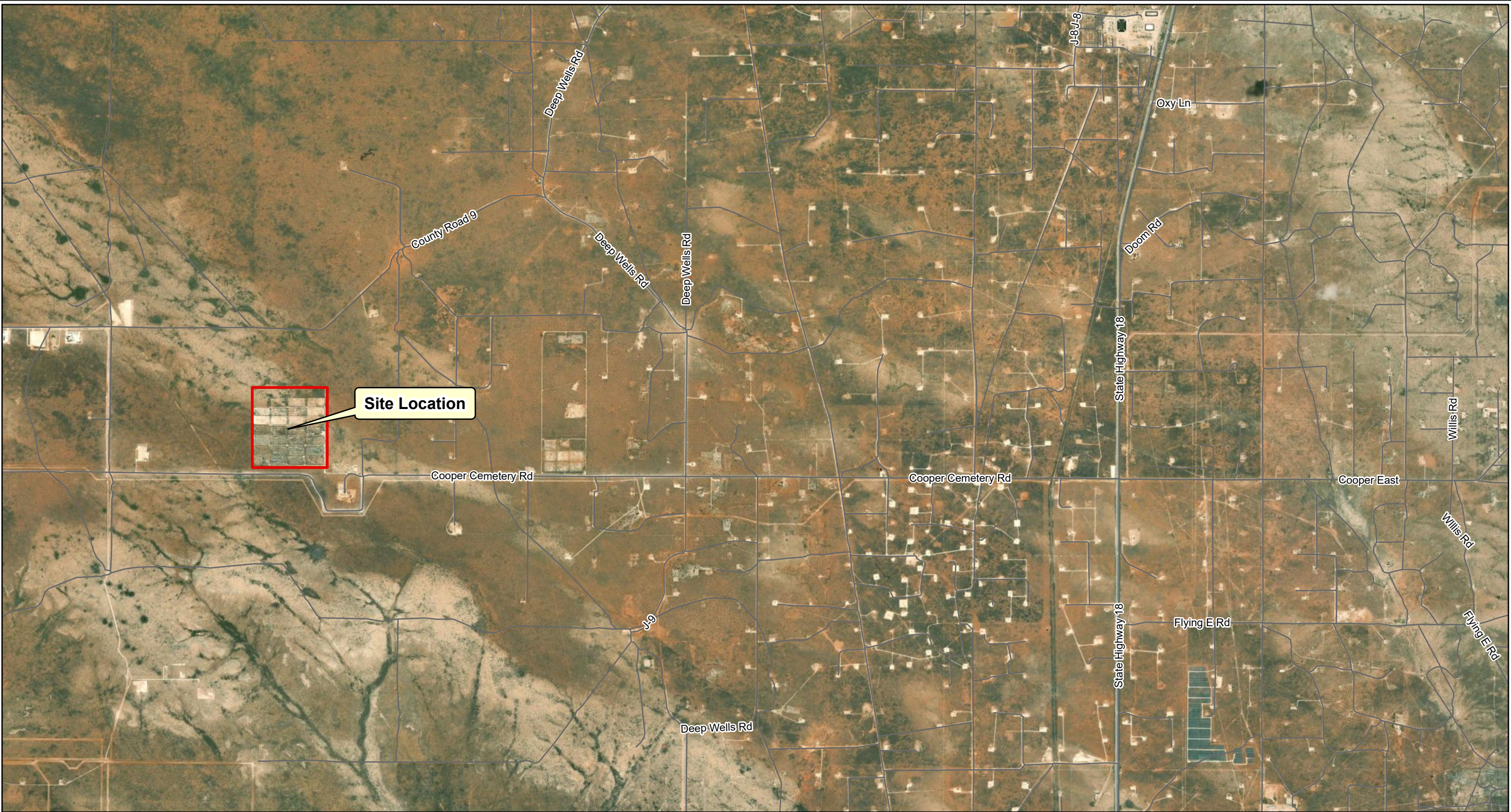
-- = LCS or LCSD is outside acceptance limits.

J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

U = Analyte was not detected at or above the SDL.

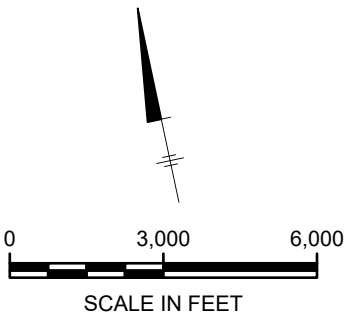
Figures

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LEGEND

 Landfarm Boundary

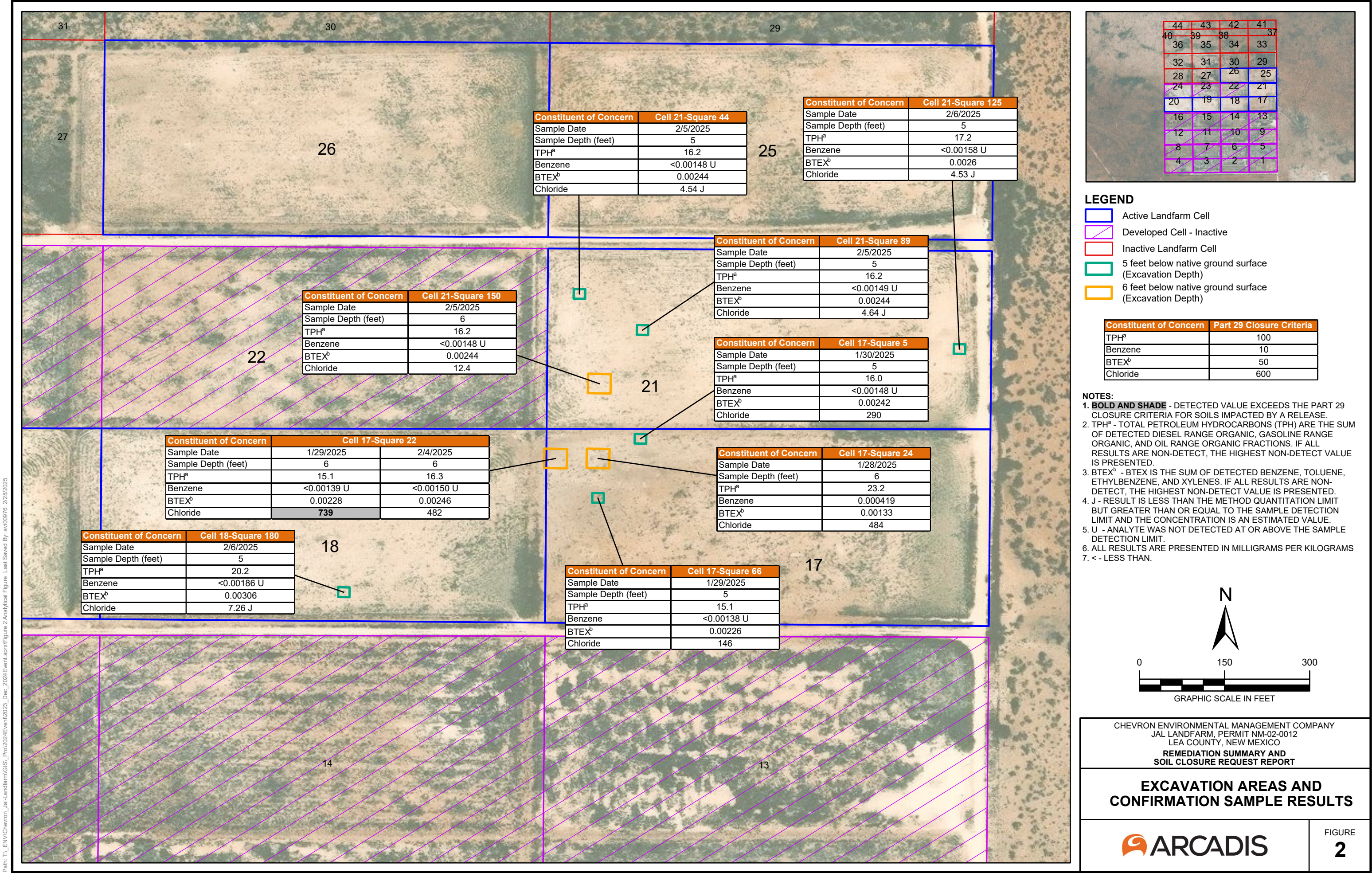


CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
**REMEDIATION SUMMARY AND
SOIL CLOSURE REQUEST REPORT**

SITE LOCATION MAP



FIGURE
1



Appendix A

Initial and Final C-141 Forms

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	NAPP2113741693
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron USA Inc.	OGRID: 22364
Contact Name: Armando Martinez	Contact Telephone: 505.690.5408.
Contact email: amarti@chevron.com	Incident # <i>(assigned by OCD)</i>
Contact mailing address: P.O. Box 469 Questa, NM 87564	

Location of Release Source

Latitude 32.214875 Longitude -103.291479
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Jal Landfarm	Site Type: Landfarm
Date Release Discovered: N/A	API# (if applicable): N/A

Unit Letter	Section	Township	Range	County
K	17	24S	36E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Texaco Exploration & Production Co.)

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)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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): Unknown	Volume/Weight Released (provide units): Unknown	Volume/Weight Recovered (provide units)

Cause of Release: The Site operates as a surface waste management facility; however, no new waste material has been received since 2007. Waste received at the facility consisted of soil/solids impacted with exempt hydrocarbons. Minor impacts of TPH and Chloride to the vadose zone (2 – 3 feet below native ground surface) have been measured.

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? This is considered a major release due to the unknown volume of material released.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, notification provided to OCD (Bradford Billings) by Arcadis/Chevron on 4/21/2021 via teleconference.	

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 <u>not</u> been undertaken, explain why: Routine operation, maintenance, and monitoring activities to remediate impacted treatment zone soils in accordance with NMAC Part 36 (which replaced rule 711) are being conducted and have been since 1999.	
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: <u>Armando Martinez</u>	Title: <u>Operations Lead - Central</u>
Signature: 	Date: <u>4/21/2021</u>
email: <u>amarti@chevron.com</u>	Telephone: <u>505.690.5408</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>5/18/2021</u>	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 28440

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX79706			4323	28440	C-141
OCD Reviewer	Condition				
rmarcus	The submitted C-141 is accepted with the following condition(s): The lateral and longitudinal information does not match the ULSTR regarding the release location. Please correct the conflicting information and report back to OCD. The information provided points to the ULSTR: L-17-24S-36E. The C-141 is reflecting K-17-24S-36E. Also, when submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.				

Incident ID	NAPP2113741693
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Armando Martinez Title: Operations Lead

Signature:  Date: February 26, 2025

email: amarti@chevron.com Telephone: 505-690-5408

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B

Closure Report Extension Request Approval

Schaffer, Alison

From: Walker, Crystal, EMNRD <Crystal.Walker@emnrd.nm.gov>
Sent: Monday, February 17, 2025 7:20 AM
To: Schaffer, Alison
Cc: Martinez, Armando; Hudson, Matt; Tyler, Loyd; Johnson, Sarah; Nanny, Ryan
Subject: RE: [EXTERNAL] Jal Landfarm (Permit NM02-0012) - Site Assessment/Characterization and Remediation Plan Modification Request

You don't often get email from crystal.walker@emnrd.nm.gov. [Learn why this is important](#)

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Good morning Alison,

Your extension request for the closure report to be due on March 10, 2025 is approved. Please include this extension approval in your submission documents.

Thank you,
Crystal

From: Schaffer, Alison <Alison.Schaffer@arcadis.com>
Sent: Friday, February 14, 2025 3:26 PM
To: Walker, Crystal, EMNRD <Crystal.Walker@emnrd.nm.gov>
Cc: Martinez, Armando <amarti@chevron.com>; Hudson, Matt <MHudson@chevron.com>; Tyler, Loyd <Loyd.Tyler@chevron.com>; Johnson, Sarah <Sarah.Johnson@arcadis.com>; Nanny, Ryan <Ryan.Nanny@arcadis.com>
Subject: RE: [EXTERNAL] Jal Landfarm (Permit NM02-0012) - Site Assessment/Characterization and Remediation Plan Modification Request

Hi Crystal,

We recently completed remediation activities at the Jal Landfarm in accordance with the approved Site Assessment/Characterization and Remediation Plan. The work was performed January 27 – February 7, 2025. We are in the process of developing the Part 29 Closure Report. The current due date for submittal of the Closure Report is 2/17/2025. We would like to request a 3-week extension for submittal of the report with a proposed due date of March 10, 2025.

Please let me know if you have any questions or if you would like to discuss further.

Thank you,
Alison

Alison Schaffer
Environmental Scientist
Arcadis U.S., Inc.
630 Plaza Drive, Suite 200 | Highlands Ranch, CO | 80129 | USA
T +1 303 471 3575

www.arcadis.com



From: Walker, Crystal, EMNRD <Crystal.Walker@emnrd.nm.gov>

Sent: Wednesday, January 15, 2025 11:38 AM

To: Nanny, Ryan <Ryan.Nanny@arcadis.com>

Cc: Martinez, Armando <amarti@chevron.com>; Hudson, Matt <MHudson@chevron.com>; Tyler, Loyd <Loyd.Tyler@chevron.com>; Schaffer, Alison <Alison.Schaffer@arcadis.com>; Johnson, Sarah <Sarah.Johnson@arcadis.com>; Rice, Steve <Steve.Rice@arcadis.com>; Walker, Crystal, EMNRD <Crystal.Walker@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Jal Landfarm (Permit NM02-0012) - Site Assessment/Characterization and Remediation Plan Modification Request

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Good morning Ryan,

Per the approval of the remediation plan a closure report is due on 2/17/2025.

Your request to modify the remediation plan as stated below is approved. Please include this communication and documentation in your closure report. If you request a remediation plan extension and no work or activity on the remediation is/has taking place the extension will most likely be denied.

Please contact me if you have any questions.

Thank you,
Crystal Walker

From: Nanny, Ryan <Ryan.Nanny@arcadis.com>

Sent: Wednesday, January 15, 2025 10:55 AM

To: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>

Cc: Martinez, Armando <amarti@chevron.com>; Hudson, Matt <MHudson@chevron.com>; Tyler, Loyd <Loyd.Tyler@chevron.com>; Schaffer, Alison <Alison.Schaffer@arcadis.com>; Johnson, Sarah <Sarah.Johnson@arcadis.com>; Rice, Steve <Steve.Rice@arcadis.com>; Walker, Crystal, EMNRD <Crystal.Walker@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Jal Landfarm (Permit NM02-0012) - Site Assessment/Characterization and Remediation Plan Modification Request

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Thank you so much Michael!

Crystal, if you have any questions or would like to discuss further, please let us know.

From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>

Sent: Wednesday, January 15, 2025 11:53 AM

To: Nanny, Ryan <Ryan.Nanny@arcadis.com>

Cc: Martinez, Armando <amarti@chevron.com>; Hudson, Matt <MHudson@chevron.com>; Tyler, Loyd <Loyd.Tyler@chevron.com>; Schaffer, Alison <Alison.Schaffer@arcadis.com>; Johnson, Sarah <Sarah.Johnson@arcadis.com>; Rice, Steve <Steve.Rice@arcadis.com>; Walker, Crystal, EMNRD <Crystal.Walker@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Jal Landfarm (Permit NM02-0012) - Site Assessment/Characterization and Remediation Plan Modification Request

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Good morning, Ryan

You may want to reach out to Crystal Walker, I have CC'd her on this response, as she was the last reviewer for this incident.

Thank you,

Mike

From: Nanny, Ryan <Ryan.Nanny@arcadis.com>

Sent: Wednesday, January 15, 2025 10:24 AM

To: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>

Cc: Martinez, Armando <amarti@chevron.com>; Hudson, Matt <MHudson@chevron.com>; Tyler, Loyd <Loyd.Tyler@chevron.com>; Schaffer, Alison <Alison.Schaffer@arcadis.com>; Johnson, Sarah <Sarah.Johnson@arcadis.com>; Rice, Steve <Steve.Rice@arcadis.com>

Subject: [EXTERNAL] Jal Landfarm (Permit NM02-0012) - Site Assessment/Characterization and Remediation Plan Modification Request

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

Hello Mr. Buchanan,

We recently received approval of the Jal Landfarm Site Assessment/Characterization and Remediation Plan (incident ID nAPP2113741693).

As part of 19.15.36 NMAC (Part 36), we are required to continue semi-annual vadose zone monitoring until the site is approved to begin closure activities under Part 36. During the recent semi-annual vadose zone monitoring event in December 2024, some samples exceeded the Part 29 closure criteria for chloride and TPH. Although chloride and TPH in the active landfarm cells have been delineated, as presented in the Site Assessment/Characterization and Remediation Plan, we recognize that variable concentrations may be observed across the site due to the sampling methodology (i.e., collection of discrete grab samples) and the heterogenous nature of soil. Since no new impacted material has been placed on the landfarm since 2007, we do not believe these additional chloride and TPH exceedances represent a new release.

We request approval to include these additional locations (and any future locations that may exceed the Part 29 closure criteria) in our Site Assessment/Characterization and Remediation Plan. We propose to remediate all locations that exceed the Part 29 closure criteria during one mobilization prior to initiation of Part 36 closure

activities. Part 36 closure activities will be initiated once the Part 36 Closure Plan is submitted and approved by the NMOCD.

Please let us know if you would like to discuss further or if you have any questions.

Thank you so much Mr. Buchanan!

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Appendix C

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis US Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 1/30/2025 3:44:15 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

880-53816-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
1/30/2025 3:44:15 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 880-53816-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53816-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
b	The compound was found in the blank and sample

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: Arcadis US Inc.
Project: Chevron - Jal Land Farm Soils

Job ID: 880-53816-1

Job ID: 880-53816-1

Eurofins Midland

Job Narrative 880-53816-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/29/2025 4:55 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 4.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: Cell 17-Square 22-E-6-250129 (880-53816-1) and Cell 17-Square 66-E-5-250129 (880-53816-2).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-101558 and analytical batch 880-101549 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-101549/2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-101544 and analytical batch 880-101567 was outside the upper control 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.

General Chemistry

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

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.

Job ID: 880-53816-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 22-E-6-250129

Lab Sample ID: 880-53816-1

Date Collected: 01/29/25 11:01

Matrix: Solid

Date Received: 01/29/25 16:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00139	U *	0.00199	0.00139	mg/Kg		01/30/25 08:55	01/30/25 13:18	1
Toluene	0.00199	U *	0.00199	0.00199	mg/Kg		01/30/25 08:55	01/30/25 13:18	1
Ethylbenzene	0.00108	U *	0.00199	0.00108	mg/Kg		01/30/25 08:55	01/30/25 13:18	1
m-Xylene & p-Xylene	0.00228	U *	0.00398	0.00228	mg/Kg		01/30/25 08:55	01/30/25 13:18	1
o-Xylene	0.00158	U *	0.00199	0.00158	mg/Kg		01/30/25 08:55	01/30/25 13:18	1
Xylenes, Total	0.00228	U *	0.00398	0.00228	mg/Kg		01/30/25 08:55	01/30/25 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/30/25 08:55	01/30/25 13:18	1
1,4-Difluorobenzene (Surr)	109		70 - 130	01/30/25 08:55	01/30/25 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	14.5	U	50.0	14.5	mg/Kg		01/30/25 07:54	01/30/25 13:04	1
Diesel Range Organics (Over C10-C28)	15.1	U	50.0	15.1	mg/Kg		01/30/25 07:54	01/30/25 13:04	1
Oil Range Organics (Over C28-C36)	15.1	U	50.0	15.1	mg/Kg		01/30/25 07:54	01/30/25 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	01/30/25 07:54	01/30/25 13:04	1
o-Terphenyl	75		70 - 130	01/30/25 07:54	01/30/25 13:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	739		10.0	0.397	mg/Kg			01/30/25 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D2216)	6.95		0.100	0.100	%			01/29/25 17:27	1
Percent Solids (ASTM D2216)	93.0	b	0.100	0.100	%			01/29/25 17:27	1

Client Sample ID: Cell 17-Square 66-E-5-250129

Lab Sample ID: 880-53816-2

Date Collected: 01/29/25 13:14

Matrix: Solid

Date Received: 01/29/25 16:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00138	U *	0.00198	0.00138	mg/Kg		01/30/25 08:55	01/30/25 13:38	1
Toluene	0.00198	U *	0.00198	0.00198	mg/Kg		01/30/25 08:55	01/30/25 13:38	1
Ethylbenzene	0.00108	U *	0.00198	0.00108	mg/Kg		01/30/25 08:55	01/30/25 13:38	1
m-Xylene & p-Xylene	0.00226	U *	0.00396	0.00226	mg/Kg		01/30/25 08:55	01/30/25 13:38	1
o-Xylene	0.00157	U *	0.00198	0.00157	mg/Kg		01/30/25 08:55	01/30/25 13:38	1
Xylenes, Total	0.00226	U *	0.00396	0.00226	mg/Kg		01/30/25 08:55	01/30/25 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	01/30/25 08:55	01/30/25 13:38	1
1,4-Difluorobenzene (Surr)	108		70 - 130	01/30/25 08:55	01/30/25 13:38	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53816-1

Client Sample ID: Cell 17-Square 66-E-5-250129
Date Collected: 01/29/25 13:14
Date Received: 01/29/25 16:55

Lab Sample ID: 880-53816-2
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	14.5	U	49.9	14.5	mg/Kg		01/30/25 07:58	01/30/25 13:04	1	
Diesel Range Organics (Over C10-C28)	15.1	U	49.9	15.1	mg/Kg		01/30/25 07:58	01/30/25 13:04	1	
Oil Range Organics (Over C28-C36)	15.1	U	49.9	15.1	mg/Kg		01/30/25 07:58	01/30/25 13:04	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	127		70 - 130				01/30/25 07:58	01/30/25 13:04	1	
o-Terphenyl	108		70 - 130				01/30/25 07:58	01/30/25 13:04	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	146		10.1	0.397	mg/Kg			01/30/25 10:30	1	

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture (ASTM D2216)	4.06		0.100	0.100	%			01/29/25 17:27	1	
Percent Solids (ASTM D2216)	95.9	b	0.100	0.100	%			01/29/25 17:27	1	

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53816-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-53816-1	Cell 17-Square 22-E-6-250129	96	109
880-53816-2	Cell 17-Square 66-E-5-250129	99	108
LCS 880-101558/1-A	Lab Control Sample	92	115
LCSD 880-101558/2-A	Lab Control Sample Dup	93	115
MB 880-101558/5-A	Method Blank	92	102
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-53816-1	Cell 17-Square 22-E-6-250129	80	75
880-53816-2	Cell 17-Square 66-E-5-250129	127	108
LCS 880-101543/2-A	Lab Control Sample	98	102
LCS 880-101544/2-A	Lab Control Sample	124	116
LCSD 880-101543/3-A	Lab Control Sample Dup	101	105
LCSD 880-101544/3-A	Lab Control Sample Dup	129	121
MB 880-101543/1-A	Method Blank	130	121
MB 880-101544/1-A	Method Blank	170 X	140 X
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.

Job ID: 880-53816-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101558/5-A

Matrix: Solid

Analysis Batch: 101549

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101558

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00139	U	0.00200	0.00139	mg/Kg		01/30/25 08:55	01/30/25 11:34	1
Toluene	0.00200	U	0.00200	0.00200	mg/Kg		01/30/25 08:55	01/30/25 11:34	1
Ethylbenzene	0.00109	U	0.00200	0.00109	mg/Kg		01/30/25 08:55	01/30/25 11:34	1
m-Xylene & p-Xylene	0.00229	U	0.00400	0.00229	mg/Kg		01/30/25 08:55	01/30/25 11:34	1
o-Xylene	0.00158	U	0.00200	0.00158	mg/Kg		01/30/25 08:55	01/30/25 11:34	1
Xylenes, Total	0.00229	U	0.00400	0.00229	mg/Kg		01/30/25 08:55	01/30/25 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/30/25 08:55	01/30/25 11:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/30/25 08:55	01/30/25 11:34	1

Lab Sample ID: LCS 880-101558/1-A

Matrix: Solid

Analysis Batch: 101549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.06715	*	mg/Kg		67	70 - 130
Toluene	0.100	0.05872	*	mg/Kg		59	70 - 130
Ethylbenzene	0.100	0.06264	*	mg/Kg		63	70 - 130
m-Xylene & p-Xylene	0.200	0.1328	*	mg/Kg		66	70 - 130
o-Xylene	0.100	0.06825	*	mg/Kg		68	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-101558/2-A

Matrix: Solid

Analysis Batch: 101549

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101558

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.06013	*	mg/Kg		60	70 - 130	11	35
Toluene	0.100	0.05237	*	mg/Kg		52	70 - 130	11	35
Ethylbenzene	0.100	0.05406	*	mg/Kg		54	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1156	*	mg/Kg		58	70 - 130	14	35
o-Xylene	0.100	0.06085	*	mg/Kg		61	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.

Job ID: 880-53816-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 880-101543/1-A

Matrix: Solid

Analysis Batch: 101565

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101543

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	14.5	U	50.0	14.5	mg/Kg		01/30/25 07:53	01/30/25 03:36	1
Diesel Range Organics (Over C10-C28)	15.1	U	50.0	15.1	mg/Kg		01/30/25 07:53	01/30/25 03:36	1
Oil Range Organics (Over C28-C36)	15.1	U	50.0	15.1	mg/Kg		01/30/25 07:53	01/30/25 03:36	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	130		70 - 130				01/30/25 07:53	01/30/25 03:36	1
o-Terphenyl	121		70 - 130				01/30/25 07:53	01/30/25 03:36	1

Lab Sample ID: LCS 880-101543/2-A

Matrix: Solid

Analysis Batch: 101565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	891.9		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	912.7		mg/Kg		91	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	98		70 - 130				
o-Terphenyl	102		70 - 130				

Lab Sample ID: LCSD 880-101543/3-A

Matrix: Solid

Analysis Batch: 101565

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101543

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	914.2		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	929.1		mg/Kg		93	70 - 130	2	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	101		70 - 130						
o-Terphenyl	105		70 - 130						

Lab Sample ID: MB 880-101544/1-A

Matrix: Solid

Analysis Batch: 101567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101544

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	14.5	U	50.0	14.5	mg/Kg		01/30/25 07:57	01/30/25 03:36	1
Diesel Range Organics (Over C10-C28)	15.1	U	50.0	15.1	mg/Kg		01/30/25 07:57	01/30/25 03:36	1
Oil Range Organics (Over C28-C36)	15.1	U	50.0	15.1	mg/Kg		01/30/25 07:57	01/30/25 03:36	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.

Job ID: 880-53816-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 880-101544/1-A

Matrix: Solid

Analysis Batch: 101567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101544

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	170	X	70 - 130	01/30/25 07:57	01/30/25 03:36	1				
o-Terphenyl	140	X	70 - 130	01/30/25 07:57	01/30/25 03:36	1				

Lab Sample ID: LCS 880-101544/2-A

Matrix: Solid

Analysis Batch: 101567

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101544

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1075		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1077		mg/Kg		108	70 - 130		

	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	124		70 - 130								
o-Terphenyl	116		70 - 130								

Lab Sample ID: LCSD 880-101544/3-A

Matrix: Solid

Analysis Batch: 101567

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101544

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1095		mg/Kg		109	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)			1000	1135		mg/Kg		113	70 - 130	5	20	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	129		70 - 130									
o-Terphenyl	121		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101556/1-A

Matrix: Solid

Analysis Batch: 101562

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac	
Chloride	0.395	U	10.0	0.395	mg/Kg			01/30/25 09:48	1		

Lab Sample ID: LCS 880-101556/2-A

Matrix: Solid

Analysis Batch: 101562

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	236.0		mg/Kg		94	90 - 110		

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53816-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-101556/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 101562											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	250	235.5		mg/Kg		94	90 - 110	0	20		

QC Association Summary

Client: Arcadis US Inc.

Job ID: 880-53816-1

Project/Site: Chevron - Jal Land Farm Soils

GC VOA

Analysis Batch: 101549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53816-1	Cell 17-Square 22-E-6-250129	Total/NA	Solid	8021B	101558
880-53816-2	Cell 17-Square 66-E-5-250129	Total/NA	Solid	8021B	101558
MB 880-101558/5-A	Method Blank	Total/NA	Solid	8021B	101558
LCS 880-101558/1-A	Lab Control Sample	Total/NA	Solid	8021B	101558
LCSD 880-101558/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101558

Prep Batch: 101558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53816-1	Cell 17-Square 22-E-6-250129	Total/NA	Solid	5030B	
880-53816-2	Cell 17-Square 66-E-5-250129	Total/NA	Solid	5030B	
MB 880-101558/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-101558/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-101558/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 101543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53816-1	Cell 17-Square 22-E-6-250129	Total/NA	Solid	8015NM Prep	
MB 880-101543/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101543/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101543/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 101544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53816-2	Cell 17-Square 66-E-5-250129	Total/NA	Solid	8015NM Prep	
MB 880-101544/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101544/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101544/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53816-1	Cell 17-Square 22-E-6-250129	Total/NA	Solid	8015B NM	101543
MB 880-101543/1-A	Method Blank	Total/NA	Solid	8015B NM	101543
LCS 880-101543/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101543
LCSD 880-101543/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101543

Analysis Batch: 101567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53816-2	Cell 17-Square 66-E-5-250129	Total/NA	Solid	8015B NM	101544
MB 880-101544/1-A	Method Blank	Total/NA	Solid	8015B NM	101544
LCS 880-101544/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101544
LCSD 880-101544/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101544

HPLC/IC

Leach Batch: 101556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53816-1	Cell 17-Square 22-E-6-250129	Soluble	Solid	DI Leach	
880-53816-2	Cell 17-Square 66-E-5-250129	Soluble	Solid	DI Leach	
MB 880-101556/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101556/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53816-1

HPLC/IC (Continued)

Leach Batch: 101556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-101556/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 101562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53816-1	Cell 17-Square 22-E-6-250129	Soluble	Solid	300.0	101556
880-53816-2	Cell 17-Square 66-E-5-250129	Soluble	Solid	300.0	101556
MB 880-101556/1-A	Method Blank	Soluble	Solid	300.0	101556
LCS 880-101556/2-A	Lab Control Sample	Soluble	Solid	300.0	101556
LCSD 880-101556/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101556

General Chemistry

Analysis Batch: 101522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53816-1	Cell 17-Square 22-E-6-250129	Total/NA	Solid	D2216	
880-53816-2	Cell 17-Square 66-E-5-250129	Total/NA	Solid	D2216	

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53816-1

Client Sample ID: Cell 17-Square 22-E-6-250129
Date Collected: 01/29/25 11:01
Date Received: 01/29/25 16:55

Lab Sample ID: 880-53816-1
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	5030B			5.02 g	5 mL	101558	01/30/25 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101549	01/30/25 13:18	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	101543	01/30/25 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101565	01/30/25 13:04	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	101556	01/30/25 08:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101562	01/30/25 10:24	CH	EET MID
Total/NA	Analysis	D2216		1			101522	01/29/25 17:27	SMC	EET MID

Client Sample ID: Cell 17-Square 66-E-5-250129
Date Collected: 01/29/25 13:14
Date Received: 01/29/25 16:55

Lab Sample ID: 880-53816-2
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	5030B			5.05 g	5 mL	101558	01/30/25 08:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101549	01/30/25 13:38	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101544	01/30/25 07:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101567	01/30/25 13:04	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	101556	01/30/25 08:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101562	01/30/25 10:30	CH	EET MID
Total/NA	Analysis	D2216		1			101522	01/29/25 17:27	SMC	EET MID

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

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53816-1

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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Method Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53816-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53816-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53816-1	Cell 17-Square 22-E-6-250129	Solid	01/29/25 11:01	01/29/25 16:55
880-53816-2	Cell 17-Square 66-E-5-250129	Solid	01/29/25 13:14	01/29/25 16:55

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Environment Testing

Client Information Client Contact: Sarah Johnson Company: Arcadis US Inc. Address: 1004 North Big Spring Suite 300 City: Midland State, Zip: TX, 79701 Phone: 303-316-6506(Tel) Email: sarah.johnson@arcadis.com Project Name: Chevron - Jal Land Farm Soils Site:		Due Date Requested: TAT Requested (days): 24 TAT Compliance Project: ☐ Yes ☒ No PO #: PN 3027704 WO #: Project #: 86001348 SSOW#:		Sample Identification Cell 17-59000 22-15-6-250129 Cell 17-59000 66-E-B-250129		Sample Date 01/29/25 1101 01/29/25 1314		Sample Type (C=comp, G=grab) C C		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air) Solid Solid Solid Solid Solid Solid Solid		Preservation Code: Solid Solid Solid Solid Solid Solid Solid		Form MS/MSR (Yes or No) X X		8015MOD_NM - Full TPH X X		300_ORG_FM_28D - Chloride X X		8021B - BTEX X X		MOISTURE_2540G - Percent Moisture X X		Analysis Requested		Carrier Tracking No(s): Kutchadkar, Sachin G State of Origin: Sachin.Kutchadkar@et.eurofinsus.com	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by:		Date: 01/29/25 1447		Company: ARCADIS		Received by: [Signature] Received by:		Date/Time: 01/29/25 1447		Method of Shipment: Received by:		Sample Disposal (A fee may be assessed if samples) ☐ Return To Client ☒ Disposal By Lab Special Instructions/QC Requirements:		Carrier Tracking No(s): Kutchadkar, Sachin G State of Origin: Sachin.Kutchadkar@et.eurofinsus.com											

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-53816-1

Login Number: 53816

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis US Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 2/3/2025 10:23:58 AM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

880-53848-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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2/3/2025 10:23:58 AM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 880-53848-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53848-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
U	Analyte was not detected at or above the SDL.

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: Arcadis US Inc.
Project: Chevron - Jal Land Farm Soils

Job ID: 880-53848-1

Job ID: 880-53848-1

Eurofins Midland

Job Narrative 880-53848-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/30/2025 1:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.5°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: Cell 17Square 5-E-5-250130 (880-53848-1).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-101558 and analytical batch 880-101549 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-101544 and analytical batch 880-101567 was outside the upper control 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.

General Chemistry

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

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.

Job ID: 880-53848-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17Square 5-E-5-250130

Lab Sample ID: 880-53848-1

Date Collected: 01/30/25 10:16

Matrix: Solid

Date Received: 01/30/25 13:50

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00148	U *	0.00212	0.00148	mg/Kg	☼	01/30/25 14:48	01/30/25 18:58	1
Toluene	0.00212	U *	0.00212	0.00212	mg/Kg	☼	01/30/25 14:48	01/30/25 18:58	1
Ethylbenzene	0.00116	U *	0.00212	0.00116	mg/Kg	☼	01/30/25 14:48	01/30/25 18:58	1
m-Xylene & p-Xylene	0.00242	U *	0.00424	0.00242	mg/Kg	☼	01/30/25 14:48	01/30/25 18:58	1
o-Xylene	0.00168	U *	0.00212	0.00168	mg/Kg	☼	01/30/25 14:48	01/30/25 18:58	1
Xylenes, Total	0.00242	U *	0.00424	0.00242	mg/Kg	☼	01/30/25 14:48	01/30/25 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/30/25 14:48	01/30/25 18:58	1
1,4-Difluorobenzene (Surr)	110		70 - 130	01/30/25 14:48	01/30/25 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.4	U	52.9	15.4	mg/Kg	☼	01/30/25 07:58	01/30/25 14:55	1
Diesel Range Organics (Over C10-C28)	16.0	U	52.9	16.0	mg/Kg	☼	01/30/25 07:58	01/30/25 14:55	1
Oil Range Organics (Over C28-C36)	16.0	U	52.9	16.0	mg/Kg	☼	01/30/25 07:58	01/30/25 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	01/30/25 07:58	01/30/25 14:55	1
o-Terphenyl	122		70 - 130	01/30/25 07:58	01/30/25 14:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		10.1	0.399	mg/Kg			01/31/25 02:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D2216)	5.92		0.100	0.100	%			01/30/25 18:24	1
Percent Solids (ASTM D2216)	94.1	b	0.100	0.100	%			01/30/25 18:24	1

Eurofins Midland

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53848-1

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-53848-1	Cell 17Square 5-E-5-250130	95	110
LCS 880-101558/1-A	Lab Control Sample	92	115
LCSD 880-101558/2-A	Lab Control Sample Dup	93	115
MB 880-101558/5-A	Method Blank	92	102
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-53848-1	Cell 17Square 5-E-5-250130	128	122
LCS 880-101544/2-A	Lab Control Sample	124	116
LCSD 880-101544/3-A	Lab Control Sample Dup	129	121
MB 880-101544/1-A	Method Blank	170 X	140 X
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis US Inc.

Job ID: 880-53848-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101558/5-A

Matrix: Solid

Analysis Batch: 101549

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101558

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00139	U	0.00200	0.00139	mg/Kg		01/30/25 08:55	01/30/25 11:34	1
Toluene	0.00200	U	0.00200	0.00200	mg/Kg		01/30/25 08:55	01/30/25 11:34	1
Ethylbenzene	0.00109	U	0.00200	0.00109	mg/Kg		01/30/25 08:55	01/30/25 11:34	1
m-Xylene & p-Xylene	0.00229	U	0.00400	0.00229	mg/Kg		01/30/25 08:55	01/30/25 11:34	1
o-Xylene	0.00158	U	0.00200	0.00158	mg/Kg		01/30/25 08:55	01/30/25 11:34	1
Xylenes, Total	0.00229	U	0.00400	0.00229	mg/Kg		01/30/25 08:55	01/30/25 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/30/25 08:55	01/30/25 11:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/30/25 08:55	01/30/25 11:34	1

Lab Sample ID: LCS 880-101558/1-A

Matrix: Solid

Analysis Batch: 101549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101558

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.06715	*	mg/Kg		67	70 - 130
Toluene	0.100	0.05872	*	mg/Kg		59	70 - 130
Ethylbenzene	0.100	0.06264	*	mg/Kg		63	70 - 130
m-Xylene & p-Xylene	0.200	0.1328	*	mg/Kg		66	70 - 130
o-Xylene	0.100	0.06825	*	mg/Kg		68	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-101558/2-A

Matrix: Solid

Analysis Batch: 101549

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101558

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.06013	*	mg/Kg		60	70 - 130	11	35
Toluene	0.100	0.05237	*	mg/Kg		52	70 - 130	11	35
Ethylbenzene	0.100	0.05406	*	mg/Kg		54	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1156	*	mg/Kg		58	70 - 130	14	35
o-Xylene	0.100	0.06085	*	mg/Kg		61	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.

Job ID: 880-53848-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 880-101544/1-A

Matrix: Solid

Analysis Batch: 101567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	14.5	U	50.0	14.5	mg/Kg		01/30/25 07:57	01/30/25 03:36	1
Diesel Range Organics (Over C10-C28)	15.1	U	50.0	15.1	mg/Kg		01/30/25 07:57	01/30/25 03:36	1
Oil Range Organics (Over C28-C36)	15.1	U	50.0	15.1	mg/Kg		01/30/25 07:57	01/30/25 03:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	170	X	70 - 130				01/30/25 07:57	01/30/25 03:36	1
o-Terphenyl	140	X	70 - 130				01/30/25 07:57	01/30/25 03:36	1

Lab Sample ID: LCS 880-101544/2-A

Matrix: Solid

Analysis Batch: 101567

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1075		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1077		mg/Kg		108	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	124		70 - 130				
o-Terphenyl	116		70 - 130				

Lab Sample ID: LCSD 880-101544/3-A

Matrix: Solid

Analysis Batch: 101567

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101544

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1095		mg/Kg		109	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1135		mg/Kg		113	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	129		70 - 130						
o-Terphenyl	121		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101670/1-A

Matrix: Solid

Analysis Batch: 101674

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.395	U	10.0	0.395	mg/Kg			01/31/25 00:37	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53848-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-101670/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 101674									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	242.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-101670/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 101674									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.7		mg/Kg		97	90 - 110	0	20

Method: D2216 - Percent Moisture

Lab Sample ID: MB 880-101679/1						Client Sample ID: Method Blank				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 101679										
	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture	0.100	U	0.100	0.100	%			01/30/25 18:24	1	
Percent Solids	100		0.100	0.100	%			01/30/25 18:24	1	

Lab Sample ID: 880-53848-1 DU						Client Sample ID: Cell 17Square 5-E-5-250130				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 101679										
	Sample	Sample		DU	DU					RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D		RPD	Limit
Percent Moisture	5.92			5.92		%			0	20
Percent Solids	94.1	b		94.1		%			0	20

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53848-1

GC VOA

Analysis Batch: 101549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53848-1	Cell 17Square 5-E-5-250130	Total/NA	Solid	8021B	101558
MB 880-101558/5-A	Method Blank	Total/NA	Solid	8021B	101558
LCS 880-101558/1-A	Lab Control Sample	Total/NA	Solid	8021B	101558
LCSD 880-101558/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101558

Prep Batch: 101558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53848-1	Cell 17Square 5-E-5-250130	Total/NA	Solid	5030B	
MB 880-101558/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-101558/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-101558/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 101544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53848-1	Cell 17Square 5-E-5-250130	Total/NA	Solid	8015NM Prep	
MB 880-101544/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101544/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101544/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53848-1	Cell 17Square 5-E-5-250130	Total/NA	Solid	8015B NM	101544
MB 880-101544/1-A	Method Blank	Total/NA	Solid	8015B NM	101544
LCS 880-101544/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101544
LCSD 880-101544/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101544

HPLC/IC

Leach Batch: 101670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53848-1	Cell 17Square 5-E-5-250130	Soluble	Solid	DI Leach	
MB 880-101670/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101670/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101670/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 101674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53848-1	Cell 17Square 5-E-5-250130	Soluble	Solid	300.0	101670
MB 880-101670/1-A	Method Blank	Soluble	Solid	300.0	101670
LCS 880-101670/2-A	Lab Control Sample	Soluble	Solid	300.0	101670
LCSD 880-101670/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101670

General Chemistry

Analysis Batch: 101679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53848-1	Cell 17Square 5-E-5-250130	Total/NA	Solid	D2216	
MB 880-101679/1	Method Blank	Total/NA	Solid	D2216	
880-53848-1 DU	Cell 17Square 5-E-5-250130	Total/NA	Solid	D2216	

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53848-1

Client Sample ID: Cell 17Square 5-E-5-250130
Date Collected: 01/30/25 10:16
Date Received: 01/30/25 13:50

Lab Sample ID: 880-53848-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	101670	01/30/25 16:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101674	01/31/25 02:06	CH	EET MID
Total/NA	Analysis	D2216		1			101679	01/30/25 18:24	SMC	EET MID

Client Sample ID: Cell 17Square 5-E-5-250130
Date Collected: 01/30/25 10:16
Date Received: 01/30/25 13:50

Lab Sample ID: 880-53848-1
Matrix: Solid
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	101558	01/30/25 14:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101549	01/30/25 18:58	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	101544	01/30/25 07:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101567	01/30/25 14:55	TKC	EET MID

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

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53848-1

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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

Method Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53848-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-53848-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53848-1	Cell 17Square 5-E-5-250130	Solid	01/30/25 10:16	01/30/25 13:50

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

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

Client Information Client Contact: Sarah Johnson Company: Arcadis US Inc. Address: 1004 North Big Spring Suite 300 City: Midland State, Zip: TX, 79701 Phone: 303-318-6506 (Tel) Email: sarah.johnson@arcadis.com Project Name: Chevron - Jal Land Farm Soils Site:		Lab PM: Kuchadkar, Sachin G E-Mail: Sachin.Kuchadkar@et.eurofinsus.com Carrier Tracking No.:	
Due Date Requested: TAT Requested (days): 24 Hrs - TAT Compliance Project: Δ Yes Δ No PO #: PN 3027704 WO #: Project #: 86001348 SSOW#:		Analysis Requested MOISTURE, 2540G - Percent Moisture 300. ORGFM, 25D - Chloride 6015MOD, NAM - Full TPH (Yes or No)	
Sample Identification Cell # 175, pure 5-E-5-250180		Sample Disposal (A fee may be assessed if sample is not disposed of properly) ☐ Return To Client ☒ Disposal By Lab Special Instructions/QC Requirements:	
Sample Information Sample Date: 01/26/16 Sample Time: 10:16 Sample Type (C=Comp, G=grab): C Matrix (Wet/dry, As-received, Oven-dried): Solid		Sample Disposal (A fee may be assessed if sample is not disposed of properly) ☐ Return To Client ☒ Disposal By Lab Special Instructions/QC Requirements:	
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by:		Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by:	
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Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-53848-1

Login Number: 53848

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis US Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 2/7/2025 9:10:35 AM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

880-54068-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
2/7/2025 9:10:35 AM
Revision 1

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 880-54068-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54068-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
U	Analyte was not detected at or above the SDL.

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: Arcadis US Inc.
Project: Chevron - Jal Land Farm Soils

Job ID: 880-54068-1

Job ID: 880-54068-1

Eurofins Midland

Job Narrative
880-54068-1

Revision

The report being provided is a revision of the original report sent on 2/6/2025. The report (revision 1) is being revised due to: sample ID corrected: Cell 17-Square 22-E-6-250204.

Receipt

The sample was received on 2/4/2025 5:17 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.3° C.

GC VOA

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

GC Semi VOA

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102036 and analytical batch 880-102052 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.

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.

Job ID: 880-54068-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 22-E-6-250204

Lab Sample ID: 880-54068-1

Date Collected: 02/04/25 12:01

Matrix: Solid

Date Received: 02/04/25 17:17

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00150	U	0.00215	0.00150	mg/Kg	☼	02/05/25 08:10	02/05/25 11:54	1
Toluene	0.00215	U	0.00215	0.00215	mg/Kg	☼	02/05/25 08:10	02/05/25 11:54	1
Ethylbenzene	0.00117	U	0.00215	0.00117	mg/Kg	☼	02/05/25 08:10	02/05/25 11:54	1
m-Xylene & p-Xylene	0.00246	U	0.00431	0.00246	mg/Kg	☼	02/05/25 08:10	02/05/25 11:54	1
o-Xylene	0.00171	U	0.00215	0.00171	mg/Kg	☼	02/05/25 08:10	02/05/25 11:54	1
Xylenes, Total	0.00246	U	0.00431	0.00246	mg/Kg	☼	02/05/25 08:10	02/05/25 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	02/05/25 08:10	02/05/25 11:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/05/25 08:10	02/05/25 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.6	U	53.8	15.6	mg/Kg	☼	02/05/25 08:10	02/05/25 11:05	1
Diesel Range Organics (Over C10-C28)	16.3	U	53.8	16.3	mg/Kg	☼	02/05/25 08:10	02/05/25 11:05	1
Oil Range Organics (Over C28-C36)	16.3	U	53.8	16.3	mg/Kg	☼	02/05/25 08:10	02/05/25 11:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	02/05/25 08:10	02/05/25 11:05	1
o-Terphenyl	81		70 - 130	02/05/25 08:10	02/05/25 11:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	482		10.8	0.425	mg/Kg	☼		02/05/25 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D2216)	7.54		0.100	0.100	%			02/05/25 10:12	1
Percent Solids (ASTM D2216)	92.5	b	0.100	0.100	%			02/05/25 10:12	1

Eurofins Midland

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54068-1

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-54068-1	Cell 17-Square 22-E-6-250204	116	97
LCS 880-102037/1-A	Lab Control Sample	99	107
LCSD 880-102037/2-A	Lab Control Sample Dup	94	104
MB 880-102037/5-A	Method Blank	108	86
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-54068-1	Cell 17-Square 22-E-6-250204	92	81
LCS 880-102036/2-A	Lab Control Sample	88	78
LCSD 880-102036/3-A	Lab Control Sample Dup	94	84
MB 880-102036/1-A	Method Blank	99	89
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis US Inc.

Job ID: 880-54068-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102037/5-A

Matrix: Solid

Analysis Batch: 102040

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102037

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00139	U	0.00200	0.00139	mg/Kg		02/05/25 08:10	02/05/25 11:12	1
Toluene	0.00200	U	0.00200	0.00200	mg/Kg		02/05/25 08:10	02/05/25 11:12	1
Ethylbenzene	0.00109	U	0.00200	0.00109	mg/Kg		02/05/25 08:10	02/05/25 11:12	1
m-Xylene & p-Xylene	0.00229	U	0.00400	0.00229	mg/Kg		02/05/25 08:10	02/05/25 11:12	1
o-Xylene	0.00158	U	0.00200	0.00158	mg/Kg		02/05/25 08:10	02/05/25 11:12	1
Xylenes, Total	0.00229	U	0.00400	0.00229	mg/Kg		02/05/25 08:10	02/05/25 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	02/05/25 08:10	02/05/25 11:12	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/05/25 08:10	02/05/25 11:12	1

Lab Sample ID: LCS 880-102037/1-A

Matrix: Solid

Analysis Batch: 102040

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102037

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1086		mg/Kg		109	70 - 130
Toluene	0.100	0.1084		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.09870		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2053		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-102037/2-A

Matrix: Solid

Analysis Batch: 102040

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102037

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1045		mg/Kg		105	70 - 130	4	35
Toluene	0.100	0.1052		mg/Kg		105	70 - 130	3	35
Ethylbenzene	0.100	0.09474		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1962		mg/Kg		98	70 - 130	5	35
o-Xylene	0.100	0.09847		mg/Kg		98	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54068-1

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

Lab Sample ID: MB 880-102036/1-A

Matrix: Solid

Analysis Batch: 102052

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	14.5	U	50.0	14.5	mg/Kg		02/05/25 08:10	02/05/25 05:08	1
Diesel Range Organics (Over C10-C28)	15.1	U	50.0	15.1	mg/Kg		02/05/25 08:10	02/05/25 05:08	1
Oil Range Organics (Over C28-C36)	15.1	U	50.0	15.1	mg/Kg		02/05/25 08:10	02/05/25 05:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				02/05/25 08:10	02/05/25 05:08	1
o-Terphenyl	89		70 - 130				02/05/25 08:10	02/05/25 05:08	1

Lab Sample ID: LCS 880-102036/2-A

Matrix: Solid

Analysis Batch: 102052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1102		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	980.1		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	88		70 - 130				
o-Terphenyl	78		70 - 130				

Lab Sample ID: LCSD 880-102036/3-A

Matrix: Solid

Analysis Batch: 102052

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1043		mg/Kg		104	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1031		mg/Kg		103	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	84		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102045/1-A

Matrix: Solid

Analysis Batch: 102048

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.395	U	10.0	0.395	mg/Kg			02/05/25 09:50	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54068-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-102045/2-A

Matrix: Solid

Analysis Batch: 102048

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	228.5		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-102045/3-A

Matrix: Solid

Analysis Batch: 102048

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	226.9		mg/Kg		91	90 - 110	1	20

Method: D2216 - Percent Moisture

Lab Sample ID: MB 880-102060/1

Matrix: Solid

Analysis Batch: 102060

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.100	U	0.100	0.100	%			02/05/25 10:12	1
Percent Solids	100		0.100	0.100	%			02/05/25 10:12	1

Lab Sample ID: 880-54068-1 DU

Matrix: Solid

Analysis Batch: 102060

Client Sample ID: Cell 17-Square 22-E-6-250204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	7.54		7.35		%		3	20
Percent Solids	92.5	b	92.7		%		0.2	20

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54068-1

GC VOA

Prep Batch: 102037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54068-1	Cell 17-Square 22-E-6-250204	Total/NA	Solid	5030B	
MB 880-102037/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-102037/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-102037/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 102040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54068-1	Cell 17-Square 22-E-6-250204	Total/NA	Solid	8021B	102037
MB 880-102037/5-A	Method Blank	Total/NA	Solid	8021B	102037
LCS 880-102037/1-A	Lab Control Sample	Total/NA	Solid	8021B	102037
LCSD 880-102037/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102037

GC Semi VOA

Prep Batch: 102036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54068-1	Cell 17-Square 22-E-6-250204	Total/NA	Solid	8015NM Prep	
MB 880-102036/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102036/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102036/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54068-1	Cell 17-Square 22-E-6-250204	Total/NA	Solid	8015B NM	102036
MB 880-102036/1-A	Method Blank	Total/NA	Solid	8015B NM	102036
LCS 880-102036/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102036
LCSD 880-102036/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102036

HPLC/IC

Leach Batch: 102045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54068-1	Cell 17-Square 22-E-6-250204	Soluble	Solid	DI Leach	
MB 880-102045/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102045/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102045/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 102048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54068-1	Cell 17-Square 22-E-6-250204	Soluble	Solid	300.0	102045
MB 880-102045/1-A	Method Blank	Soluble	Solid	300.0	102045
LCS 880-102045/2-A	Lab Control Sample	Soluble	Solid	300.0	102045
LCSD 880-102045/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102045

General Chemistry

Analysis Batch: 102060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54068-1	Cell 17-Square 22-E-6-250204	Total/NA	Solid	D2216	
MB 880-102060/1	Method Blank	Total/NA	Solid	D2216	
880-54068-1 DU	Cell 17-Square 22-E-6-250204	Total/NA	Solid	D2216	

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54068-1

Client Sample ID: Cell 17-Square 22-E-6-250204
Date Collected: 02/04/25 12:01
Date Received: 02/04/25 17:17

Lab Sample ID: 880-54068-1
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	D2216		1			102060	02/05/25 10:12	SMC	EET MID

Client Sample ID: Cell 17-Square 22-E-6-250204
Date Collected: 02/04/25 12:01
Date Received: 02/04/25 17:17

Lab Sample ID: 880-54068-1
Matrix: Solid
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	102037	02/05/25 08:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102040	02/05/25 11:54	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102036	02/05/25 08:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102052	02/05/25 11:05	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102045	02/05/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102048	02/05/25 11:07	CH	EET MID

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

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54068-1

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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Method Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54068-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54068-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-54068-1	Cell 17-Square 22-E-6-250204	Solid	02/04/25 12:01	02/04/25 17:17

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Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

Client Information Client Contact: Sarah Johnson Company: Arcadis US Inc. Address: 1004 North Big Spring Suite 300 City: Midland State, Zip: TX, 79701 Phone: 303-318-6506 (Tel) Email: sarah.johnson@arcadis.com Project Name: Chevron - Jai Land Farm Soils Site:		Sample Information Sample: <i>Enviro-Security</i> Phone: 432-288-0876 Lab PM: Kuchadkar, Sachin G E-Mail: Sachin.Kuchadkar@eurofins.com Carrier Tracking No(s): State of Origin:		COC No: 860-36208-12103.1 Page: Page 1 of 1 Date:	
Due Date Requested: TAT Requested (days): 24 hr TAT Compliance Project: ☐ Yes ☒ No PO #: PN 3027704 WO #:		Analysis Requested 8015MOD_NM - Full TPH ☒ 300_ORGFM_2SD - Chloride ☒ 8021B - BTEX ☒ MOISTURE_2540G - Percent Moisture ☒			
Sample Identification Cell 17-Square 22-E-6-250224 Date: 02/04/25 Time: 10:10 Matrix: Solid Sample Type (C=Comp, G=grab): <i>S</i> Preservation Code:		Special Instructions/Note: Total Number of containers: 2 Other:			
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> Date: 02/04/25 Time: 17:17 Company: Arcadis		Method of Shipment: Relinquished by: <i>[Signature]</i> Date: 02/04/25 Time: 17:17 Company: Arcadis			
Custody Seal No.: Delta Yes ☐ No ☒		Cooler Temperature(s) °C and Other Remarks: 3.4/5.3°C IR-8 (-0.1)			

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-54068-1

Login Number: 54068

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis US Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 2/6/2025 5:29:08 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

880-54131-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
2/6/2025 5:29:08 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 880-54131-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
U	Analyte was not detected at or above the SDL.

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: Arcadis US Inc.
Project: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

Job ID: 880-54131-1

Eurofins Midland

Job Narrative 880-54131-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/5/2025 5:12 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 2.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: Borrow-S-250205 (880-54131-1), Cell21-Square 150-E-6-250205 (880-54131-2), Cell21-Square 89-E-5-250205 (880-54131-3) and Cell21-Square-44-E-5-250205 (880-54131-4).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: Cell21-Square 150-E-6-250205 (880-54131-2) and Cell21-Square-44-E-5-250205 (880-54131-4). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (880-54131-A-1-F MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102119 and analytical batch 880-102154 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.

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.

General Chemistry

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

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

Client Sample ID: Borrow-S-250205

Lab Sample ID: 880-54131-1

Date Collected: 02/05/25 09:02

Matrix: Solid

Date Received: 02/05/25 17:12

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00172	U	0.00246	0.00172	mg/Kg	☼	02/05/25 20:40	02/06/25 04:47	1
Toluene	0.00246	U	0.00246	0.00246	mg/Kg	☼	02/05/25 20:40	02/06/25 04:47	1
Ethylbenzene	0.00134	U *	0.00246	0.00134	mg/Kg	☼	02/05/25 20:40	02/06/25 04:47	1
m-Xylene & p-Xylene	0.00282	U	0.00493	0.00282	mg/Kg	☼	02/05/25 20:40	02/06/25 04:47	1
o-Xylene	0.00195	U	0.00246	0.00195	mg/Kg	☼	02/05/25 20:40	02/06/25 04:47	1
Xylenes, Total	0.00282	U	0.00493	0.00282	mg/Kg	☼	02/05/25 20:40	02/06/25 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	02/05/25 20:40	02/06/25 04:47	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/05/25 20:40	02/06/25 04:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.8	U	61.3	17.8	mg/Kg	☼	02/05/25 20:26	02/06/25 09:44	1
Diesel Range Organics (Over C10-C28)	18.6	U	61.3	18.6	mg/Kg	☼	02/05/25 20:26	02/06/25 09:44	1
Oil Range Organics (Over C28-C36)	18.6	U	61.3	18.6	mg/Kg	☼	02/05/25 20:26	02/06/25 09:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	02/05/25 20:26	02/06/25 09:44	1
o-Terphenyl	66	X	70 - 130	02/05/25 20:26	02/06/25 09:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.4		12.3	0.487	mg/Kg	☼		02/06/25 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D2216)	18.5		0.100	0.100	%			02/05/25 17:40	1
Percent Solids (ASTM D2216)	81.5	b	0.100	0.100	%			02/05/25 17:40	1

Client Sample ID: Cell21-Square 150-E-6-250205

Lab Sample ID: 880-54131-2

Date Collected: 02/05/25 10:48

Matrix: Solid

Date Received: 02/05/25 17:12

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00148	U	0.00213	0.00148	mg/Kg	☼	02/05/25 20:40	02/06/25 05:07	1
Toluene	0.00213	U	0.00213	0.00213	mg/Kg	☼	02/05/25 20:40	02/06/25 05:07	1
Ethylbenzene	0.00116	U *	0.00213	0.00116	mg/Kg	☼	02/05/25 20:40	02/06/25 05:07	1
m-Xylene & p-Xylene	0.00244	U	0.00427	0.00244	mg/Kg	☼	02/05/25 20:40	02/06/25 05:07	1
o-Xylene	0.00169	U	0.00213	0.00169	mg/Kg	☼	02/05/25 20:40	02/06/25 05:07	1
Xylenes, Total	0.00244	U	0.00427	0.00244	mg/Kg	☼	02/05/25 20:40	02/06/25 05:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/05/25 20:40	02/06/25 05:07	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/05/25 20:40	02/06/25 05:07	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.

Job ID: 880-54131-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 150-E-6-250205

Lab Sample ID: 880-54131-2

Date Collected: 02/05/25 10:48

Matrix: Solid

Date Received: 02/05/25 17:12

Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.5	U	53.4	15.5	mg/Kg	☼	02/05/25 20:26	02/06/25 10:33	1
Diesel Range Organics (Over C10-C28)	16.2	U	53.4	16.2	mg/Kg	☼	02/05/25 20:26	02/06/25 10:33	1
Oil Range Organics (Over C28-C36)	16.2	U	53.4	16.2	mg/Kg	☼	02/05/25 20:26	02/06/25 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	02/05/25 20:26	02/06/25 10:33	1
o-Terphenyl	66	X	70 - 130	02/05/25 20:26	02/06/25 10:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		10.7	0.423	mg/Kg	☼		02/06/25 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D2216)	6.61		0.100	0.100	%			02/05/25 17:40	1
Percent Solids (ASTM D2216)	93.4	b	0.100	0.100	%			02/05/25 17:40	1

Client Sample ID: Cell21-Square 89-E-5-250205

Lab Sample ID: 880-54131-3

Date Collected: 02/05/25 12:43

Matrix: Solid

Date Received: 02/05/25 17:12

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00149	U	0.00214	0.00149	mg/Kg	☼	02/05/25 20:40	02/06/25 05:28	1
Toluene	0.00214	U	0.00214	0.00214	mg/Kg	☼	02/05/25 20:40	02/06/25 05:28	1
Ethylbenzene	0.00116	U *	0.00214	0.00116	mg/Kg	☼	02/05/25 20:40	02/06/25 05:28	1
m-Xylene & p-Xylene	0.00244	U	0.00428	0.00244	mg/Kg	☼	02/05/25 20:40	02/06/25 05:28	1
o-Xylene	0.00169	U	0.00214	0.00169	mg/Kg	☼	02/05/25 20:40	02/06/25 05:28	1
Xylenes, Total	0.00244	U	0.00428	0.00244	mg/Kg	☼	02/05/25 20:40	02/06/25 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	02/05/25 20:40	02/06/25 05:28	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/05/25 20:40	02/06/25 05:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.6	U	53.5	15.6	mg/Kg	☼	02/05/25 20:26	02/06/25 10:49	1
Diesel Range Organics (Over C10-C28)	16.2	U	53.5	16.2	mg/Kg	☼	02/05/25 20:26	02/06/25 10:49	1
Oil Range Organics (Over C28-C36)	16.2	U	53.5	16.2	mg/Kg	☼	02/05/25 20:26	02/06/25 10:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	02/05/25 20:26	02/06/25 10:49	1
o-Terphenyl	65	X	70 - 130	02/05/25 20:26	02/06/25 10:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.64	J	10.8	0.428	mg/Kg	☼		02/06/25 10:22	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.

Job ID: 880-54131-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 89-E-5-250205

Lab Sample ID: 880-54131-3

Date Collected: 02/05/25 12:43

Matrix: Solid

Date Received: 02/05/25 17:12

Percent Solids: 92.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D2216)	7.06		0.100	0.100	%			02/05/25 17:40	1
Percent Solids (ASTM D2216)	92.9	b	0.100	0.100	%			02/05/25 17:40	1

Client Sample ID: Cell21-Square-44-E-5-250205

Lab Sample ID: 880-54131-4

Date Collected: 02/05/25 13:48

Matrix: Solid

Date Received: 02/05/25 17:12

Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00148	U	0.00213	0.00148	mg/Kg	☼	02/05/25 20:40	02/06/25 05:48	1
Toluene	0.00213	U	0.00213	0.00213	mg/Kg	☼	02/05/25 20:40	02/06/25 05:48	1
Ethylbenzene	0.00116	U *	0.00213	0.00116	mg/Kg	☼	02/05/25 20:40	02/06/25 05:48	1
m-Xylene & p-Xylene	0.00244	U	0.00426	0.00244	mg/Kg	☼	02/05/25 20:40	02/06/25 05:48	1
o-Xylene	0.00169	U	0.00213	0.00169	mg/Kg	☼	02/05/25 20:40	02/06/25 05:48	1
Xylenes, Total	0.00244	U	0.00426	0.00244	mg/Kg	☼	02/05/25 20:40	02/06/25 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				02/05/25 20:40	02/06/25 05:48	1
1,4-Difluorobenzene (Surr)	91		70 - 130				02/05/25 20:40	02/06/25 05:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.5	U	53.4	15.5	mg/Kg	☼	02/05/25 20:26	02/06/25 11:06	1
Diesel Range Organics (Over C10-C28)	16.2	U	53.4	16.2	mg/Kg	☼	02/05/25 20:26	02/06/25 11:06	1
Oil Range Organics (Over C28-C36)	16.2	U	53.4	16.2	mg/Kg	☼	02/05/25 20:26	02/06/25 11:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				02/05/25 20:26	02/06/25 11:06	1
o-Terphenyl	66	X	70 - 130				02/05/25 20:26	02/06/25 11:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.54	J	10.6	0.419	mg/Kg	☼		02/06/25 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D2216)	6.40		0.100	0.100	%			02/05/25 17:40	1
Percent Solids (ASTM D2216)	93.6	b	0.100	0.100	%			02/05/25 17:40	1

Eurofins Midland

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-54131-1	Borrow-S-250205	87	86
880-54131-2	Cell21-Square 150-E-6-250205	97	92
880-54131-3	Cell21-Square 89-E-5-250205	96	92
880-54131-4	Cell21-Square-44-E-5-250205	100	91
LCS 880-102116/1-A	Lab Control Sample	116	100
LCSD 880-102116/2-A	Lab Control Sample Dup	123	93
MB 880-102116/5-A	Method Blank	92	89
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-54131-1	Borrow-S-250205	70	66 X
880-54131-1 MS	Borrow-S-250205	67 X	68 X
880-54131-1 MSD	Borrow-S-250205	69 X	67 X
880-54131-2	Cell21-Square 150-E-6-250205	72	66 X
880-54131-3	Cell21-Square 89-E-5-250205	70	65 X
880-54131-4	Cell21-Square-44-E-5-250205	72	66 X
LCS 880-102119/2-A	Lab Control Sample	74	77
LCSD 880-102119/3-A	Lab Control Sample Dup	74	76
MB 880-102119/1-A	Method Blank	99	92
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis US Inc.

Job ID: 880-54131-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102116/5-A

Matrix: Solid

Analysis Batch: 102043

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00139	U	0.00200	0.00139	mg/Kg		02/05/25 20:40	02/05/25 23:56	1
Toluene	0.00200	U	0.00200	0.00200	mg/Kg		02/05/25 20:40	02/05/25 23:56	1
Ethylbenzene	0.00109	U	0.00200	0.00109	mg/Kg		02/05/25 20:40	02/05/25 23:56	1
m-Xylene & p-Xylene	0.00229	U	0.00400	0.00229	mg/Kg		02/05/25 20:40	02/05/25 23:56	1
o-Xylene	0.00158	U	0.00200	0.00158	mg/Kg		02/05/25 20:40	02/05/25 23:56	1
Xylenes, Total	0.00229	U	0.00400	0.00229	mg/Kg		02/05/25 20:40	02/05/25 23:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	02/05/25 20:40	02/05/25 23:56	1
1,4-Difluorobenzene (Surr)	89		70 - 130	02/05/25 20:40	02/05/25 23:56	1

Lab Sample ID: LCS 880-102116/1-A

Matrix: Solid

Analysis Batch: 102043

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09881		mg/Kg		99	70 - 130
Toluene	0.100	0.09850		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2281		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1116		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-102116/2-A

Matrix: Solid

Analysis Batch: 102043

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102116

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	6	35
Toluene	0.100	0.1072		mg/Kg		107	70 - 130	8	35
Ethylbenzene	0.100	0.1313	*	mg/Kg		131	70 - 130	25	35
m-Xylene & p-Xylene	0.200	0.2491		mg/Kg		125	70 - 130	9	35
o-Xylene	0.100	0.1223		mg/Kg		122	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.

Job ID: 880-54131-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 880-102119/1-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102119

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	14.5	U	50.0	14.5	mg/Kg		02/05/25 20:21	02/06/25 05:08	1
Diesel Range Organics (Over C10-C28)	15.1	U	50.0	15.1	mg/Kg		02/05/25 20:21	02/06/25 05:08	1
Oil Range Organics (Over C28-C36)	15.1	U	50.0	15.1	mg/Kg		02/05/25 20:21	02/06/25 05:08	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	99		70 - 130				02/05/25 20:21	02/06/25 05:08	1
o-Terphenyl	92		70 - 130				02/05/25 20:21	02/06/25 05:08	1

Lab Sample ID: LCS 880-102119/2-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	898.4		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	908.2		mg/Kg		91	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	74		70 - 130				
o-Terphenyl	77		70 - 130				

Lab Sample ID: LCSD 880-102119/3-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102119

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	752.0		mg/Kg		75	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	764.9		mg/Kg		76	70 - 130	17	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	74		70 - 130						
o-Terphenyl	76		70 - 130						

Lab Sample ID: 880-54131-1 MS

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Borrow-S-250205

Prep Type: Total/NA

Prep Batch: 102119

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	17.8	U	1230	820.7	N1	mg/Kg	☼	67	70 - 130
Diesel Range Organics (Over C10-C28)	18.6	U	1230	810.0	N1	mg/Kg	☼	66	70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

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

Lab Sample ID: 880-54131-1 MS

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Borrow-S-250205

Prep Type: Total/NA

Prep Batch: 102119

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	67	X	70 - 130
o-Terphenyl	68	X	70 - 130

Lab Sample ID: 880-54131-1 MSD

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Borrow-S-250205

Prep Type: Total/NA

Prep Batch: 102119

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	17.8	U	1230	851.5	N1	mg/Kg	✱	69	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	18.6	U	1230	796.4	N1	mg/Kg	✱	65	70 - 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	69	X	70 - 130								
o-Terphenyl	67	X	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102134/1-A

Matrix: Solid

Analysis Batch: 102145

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	0.395	U	10.0	0.395	mg/Kg			02/06/25 09:40	1	

Lab Sample ID: LCS 880-102134/2-A

Matrix: Solid

Analysis Batch: 102145

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	262.8		mg/Kg		105	90 - 110			

Lab Sample ID: LCSD 880-102134/3-A

Matrix: Solid

Analysis Batch: 102145

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec	RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		RPD	Limit
Chloride	250	263.4		mg/Kg		105	90 - 110		0	20

Lab Sample ID: 880-54131-1 MS

Matrix: Solid

Analysis Batch: 102145

Client Sample ID: Borrow-S-250205

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	75.4		308	410.1		mg/Kg	✱	109	90 - 110		

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-54131-1 MSD
Matrix: Solid
Analysis Batch: 102145

Client Sample ID: Borrow-S-250205
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	75.4		308	411.7		mg/Kg	☆	109	90 - 110	0	20

Method: D2216 - Percent Moisture

Lab Sample ID: MB 880-102118/1
Matrix: Solid
Analysis Batch: 102118

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.100	U	0.100	0.100	%			02/05/25 17:40	1
Percent Solids	100		0.100	0.100	%			02/05/25 17:40	1

Lab Sample ID: 880-54131-1 DU
Matrix: Solid
Analysis Batch: 102118

Client Sample ID: Borrow-S-250205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	18.5		18.3		%		1	20
Percent Solids	81.5	b	81.7		%		0.3	20

QC Association Summary

Client: Arcadis US Inc.

Job ID: 880-54131-1

Project/Site: Chevron - Jal Land Farm Soils

GC VOA

Analysis Batch: 102043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54131-1	Borrow-S-250205	Total/NA	Solid	8021B	102116
880-54131-2	Cell21-Square 150-E-6-250205	Total/NA	Solid	8021B	102116
880-54131-3	Cell21-Square 89-E-5-250205	Total/NA	Solid	8021B	102116
880-54131-4	Cell21-Square-44-E-5-250205	Total/NA	Solid	8021B	102116
MB 880-102116/5-A	Method Blank	Total/NA	Solid	8021B	102116
LCS 880-102116/1-A	Lab Control Sample	Total/NA	Solid	8021B	102116
LCSD 880-102116/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102116

Prep Batch: 102116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54131-1	Borrow-S-250205	Total/NA	Solid	5030B	
880-54131-2	Cell21-Square 150-E-6-250205	Total/NA	Solid	5030B	
880-54131-3	Cell21-Square 89-E-5-250205	Total/NA	Solid	5030B	
880-54131-4	Cell21-Square-44-E-5-250205	Total/NA	Solid	5030B	
MB 880-102116/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-102116/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-102116/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 102119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54131-1	Borrow-S-250205	Total/NA	Solid	8015NM Prep	
880-54131-2	Cell21-Square 150-E-6-250205	Total/NA	Solid	8015NM Prep	
880-54131-3	Cell21-Square 89-E-5-250205	Total/NA	Solid	8015NM Prep	
880-54131-4	Cell21-Square-44-E-5-250205	Total/NA	Solid	8015NM Prep	
MB 880-102119/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102119/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54131-1 MS	Borrow-S-250205	Total/NA	Solid	8015NM Prep	
880-54131-1 MSD	Borrow-S-250205	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54131-1	Borrow-S-250205	Total/NA	Solid	8015B NM	102119
880-54131-2	Cell21-Square 150-E-6-250205	Total/NA	Solid	8015B NM	102119
880-54131-3	Cell21-Square 89-E-5-250205	Total/NA	Solid	8015B NM	102119
880-54131-4	Cell21-Square-44-E-5-250205	Total/NA	Solid	8015B NM	102119
MB 880-102119/1-A	Method Blank	Total/NA	Solid	8015B NM	102119
LCS 880-102119/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102119
LCSD 880-102119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102119
880-54131-1 MS	Borrow-S-250205	Total/NA	Solid	8015B NM	102119
880-54131-1 MSD	Borrow-S-250205	Total/NA	Solid	8015B NM	102119

HPLC/IC

Leach Batch: 102134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54131-1	Borrow-S-250205	Soluble	Solid	DI Leach	
880-54131-2	Cell21-Square 150-E-6-250205	Soluble	Solid	DI Leach	
880-54131-3	Cell21-Square 89-E-5-250205	Soluble	Solid	DI Leach	
880-54131-4	Cell21-Square-44-E-5-250205	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

HPLC/IC (Continued)

Leach Batch: 102134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-102134/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102134/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102134/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54131-1 MS	Borrow-S-250205	Soluble	Solid	DI Leach	
880-54131-1 MSD	Borrow-S-250205	Soluble	Solid	DI Leach	

Analysis Batch: 102145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54131-1	Borrow-S-250205	Soluble	Solid	300.0	102134
880-54131-2	Cell21-Square 150-E-6-250205	Soluble	Solid	300.0	102134
880-54131-3	Cell21-Square 89-E-5-250205	Soluble	Solid	300.0	102134
880-54131-4	Cell21-Square-44-E-5-250205	Soluble	Solid	300.0	102134
MB 880-102134/1-A	Method Blank	Soluble	Solid	300.0	102134
LCS 880-102134/2-A	Lab Control Sample	Soluble	Solid	300.0	102134
LCSD 880-102134/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102134
880-54131-1 MS	Borrow-S-250205	Soluble	Solid	300.0	102134
880-54131-1 MSD	Borrow-S-250205	Soluble	Solid	300.0	102134

General Chemistry

Analysis Batch: 102118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54131-1	Borrow-S-250205	Total/NA	Solid	D2216	
880-54131-2	Cell21-Square 150-E-6-250205	Total/NA	Solid	D2216	
880-54131-3	Cell21-Square 89-E-5-250205	Total/NA	Solid	D2216	
880-54131-4	Cell21-Square-44-E-5-250205	Total/NA	Solid	D2216	
MB 880-102118/1	Method Blank	Total/NA	Solid	D2216	
880-54131-1 DU	Borrow-S-250205	Total/NA	Solid	D2216	

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

Client Sample ID: Borrow-S-250205
Date Collected: 02/05/25 09:02
Date Received: 02/05/25 17:12

Lab Sample ID: 880-54131-1
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	D2216		1			102118	02/05/25 17:40	CH	EET MID

Client Sample ID: Borrow-S-250205
Date Collected: 02/05/25 09:02
Date Received: 02/05/25 17:12

Lab Sample ID: 880-54131-1
Matrix: Solid
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	102116	02/05/25 20:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102043	02/06/25 04:47	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102119	02/05/25 20:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102154	02/06/25 09:44	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102134	02/06/25 07:59	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102145	02/06/25 09:58	CH	EET MID

Client Sample ID: Cell21-Square 150-E-6-250205
Date Collected: 02/05/25 10:48
Date Received: 02/05/25 17:12

Lab Sample ID: 880-54131-2
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	D2216		1			102118	02/05/25 17:40	CH	EET MID

Client Sample ID: Cell21-Square 150-E-6-250205
Date Collected: 02/05/25 10:48
Date Received: 02/05/25 17:12

Lab Sample ID: 880-54131-2
Matrix: Solid
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	102116	02/05/25 20:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102043	02/06/25 05:07	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102119	02/05/25 20:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102154	02/06/25 10:33	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102134	02/06/25 07:59	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102145	02/06/25 10:16	CH	EET MID

Client Sample ID: Cell21-Square 89-E-5-250205
Date Collected: 02/05/25 12:43
Date Received: 02/05/25 17:12

Lab Sample ID: 880-54131-3
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	D2216		1			102118	02/05/25 17:40	CH	EET MID

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

Client Sample ID: Cell21-Square 89-E-5-250205
Date Collected: 02/05/25 12:43
Date Received: 02/05/25 17:12

Lab Sample ID: 880-54131-3
Matrix: Solid
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	102116	02/05/25 20:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102043	02/06/25 05:28	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102119	02/05/25 20:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102154	02/06/25 10:49	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102134	02/06/25 07:59	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102145	02/06/25 10:22	CH	EET MID

Client Sample ID: Cell21-Square-44-E-5-250205
Date Collected: 02/05/25 13:48
Date Received: 02/05/25 17:12

Lab Sample ID: 880-54131-4
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	D2216		1			102118	02/05/25 17:40	CH	EET MID

Client Sample ID: Cell21-Square-44-E-5-250205
Date Collected: 02/05/25 13:48
Date Received: 02/05/25 17:12

Lab Sample ID: 880-54131-4
Matrix: Solid
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	102116	02/05/25 20:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102043	02/06/25 05:48	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	102119	02/05/25 20:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102154	02/06/25 11:06	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102134	02/06/25 07:59	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102145	02/06/25 10:28	CH	EET MID

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

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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Method Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54131-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-54131-1	Borrow-S-250205	Solid	02/05/25 09:02	02/05/25 17:12
880-54131-2	Cell21-Square 150-E-6-250205	Solid	02/05/25 10:48	02/05/25 17:12
880-54131-3	Cell21-Square 89-E-5-250205	Solid	02/05/25 12:43	02/05/25 17:12
880-54131-4	Cell21-Square-44-E-5-250205	Solid	02/05/25 13:48	02/05/25 17:12

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Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-54131-1

Login Number: 54131

List Source: Eurofins Midland

List Number: 1

Creator: Lee, Randell

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis US Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 2/7/2025 5:04:07 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

880-54170-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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2/7/2025 5:04:07 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 880-54170-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54170-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
U	Analyte was not detected at or above the SDL.

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: Arcadis US Inc.
Project: Chevron - Jal Land Farm Soils

Job ID: 880-54170-1

Job ID: 880-54170-1

Eurofins Midland

Job Narrative 880-54170-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/6/2025 5:07 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 4.5°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: Cell21-Square125-E-5-250206 (880-54170-1), Cell18-Square180-E-5-250206 (880-54170-2), (890-7643-A-1-F MS) and (890-7643-A-1-G MSD). Evidence of matrix interferences is not obvious.

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.

General Chemistry

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

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.

Job ID: 880-54170-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square125-E-5-250206

Lab Sample ID: 880-54170-1

Date Collected: 02/06/25 12:18

Matrix: Solid

Date Received: 02/06/25 17:07

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00158	U	0.00228	0.00158	mg/Kg	☼	02/07/25 09:06	02/07/25 12:02	1
Toluene	0.00227	U	0.00228	0.00227	mg/Kg	☼	02/07/25 09:06	02/07/25 12:02	1
Ethylbenzene	0.00124	U	0.00228	0.00124	mg/Kg	☼	02/07/25 09:06	02/07/25 12:02	1
m-Xylene & p-Xylene	0.00260	U	0.00455	0.00260	mg/Kg	☼	02/07/25 09:06	02/07/25 12:02	1
o-Xylene	0.00180	U	0.00228	0.00180	mg/Kg	☼	02/07/25 09:06	02/07/25 12:02	1
Xylenes, Total	0.00260	U	0.00455	0.00260	mg/Kg	☼	02/07/25 09:06	02/07/25 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/07/25 09:06	02/07/25 12:02	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/07/25 09:06	02/07/25 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.6	U	57.0	16.6	mg/Kg	☼	02/07/25 08:37	02/07/25 15:03	1
Diesel Range Organics (Over C10-C28)	17.2	U	57.0	17.2	mg/Kg	☼	02/07/25 08:37	02/07/25 15:03	1
Oil Range Organics (Over C28-C36)	17.2	U	57.0	17.2	mg/Kg	☼	02/07/25 08:37	02/07/25 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	02/07/25 08:37	02/07/25 15:03	1
o-Terphenyl	61	X	70 - 130	02/07/25 08:37	02/07/25 15:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.53	J	11.5	0.454	mg/Kg	☼		02/07/25 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D2216)	12.6		0.100	0.100	%			02/07/25 08:35	1
Percent Solids (ASTM D2216)	87.4	b	0.100	0.100	%			02/07/25 08:35	1

Client Sample ID: Cell18-Square180-E-5-250206

Lab Sample ID: 880-54170-2

Date Collected: 02/06/25 14:05

Matrix: Solid

Date Received: 02/06/25 17:07

Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00186	U	0.00268	0.00186	mg/Kg	☼	02/07/25 09:06	02/07/25 12:23	1
Toluene	0.00268	U	0.00268	0.00268	mg/Kg	☼	02/07/25 09:06	02/07/25 12:23	1
Ethylbenzene	0.00146	U	0.00268	0.00146	mg/Kg	☼	02/07/25 09:06	02/07/25 12:23	1
m-Xylene & p-Xylene	0.00306	U	0.00535	0.00306	mg/Kg	☼	02/07/25 09:06	02/07/25 12:23	1
o-Xylene	0.00212	U	0.00268	0.00212	mg/Kg	☼	02/07/25 09:06	02/07/25 12:23	1
Xylenes, Total	0.00306	U	0.00535	0.00306	mg/Kg	☼	02/07/25 09:06	02/07/25 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/07/25 09:06	02/07/25 12:23	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/07/25 09:06	02/07/25 12:23	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54170-1

Client Sample ID: Cell18-Square180-E-5-250206
Date Collected: 02/06/25 14:05
Date Received: 02/06/25 17:07

Lab Sample ID: 880-54170-2
Matrix: Solid
Percent Solids: 74.6

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	19.4	U	66.7	19.4	mg/Kg	☼	02/07/25 08:37	02/07/25 15:18	1	
Diesel Range Organics (Over C10-C28)	20.2	U	66.7	20.2	mg/Kg	☼	02/07/25 08:37	02/07/25 15:18	1	
Oil Range Organics (Over C28-C36)	20.2	U	66.7	20.2	mg/Kg	☼	02/07/25 08:37	02/07/25 15:18	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	70		70 - 130				02/07/25 08:37	02/07/25 15:18	1	
o-Terphenyl	62	X	70 - 130				02/07/25 08:37	02/07/25 15:18	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	7.26	J	13.5	0.535	mg/Kg	☼		02/07/25 13:16	1	

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture (ASTM D2216)	25.4		0.100	0.100	%			02/07/25 08:35	1	
Percent Solids (ASTM D2216)	74.6	b	0.100	0.100	%			02/07/25 08:35	1	

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54170-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-54170-1	Cell21-Square125-E-5-250206	104	99
880-54170-2	Cell18-Square180-E-5-250206	97	101
LCS 880-102262/1-A	Lab Control Sample	100	113
LCSD 880-102262/2-A	Lab Control Sample Dup	92	113
MB 880-102262/5-A	Method Blank	101	98
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-54170-1	Cell21-Square125-E-5-250206	70	61 X
880-54170-2	Cell18-Square180-E-5-250206	70	62 X
LCS 880-102250/2-A	Lab Control Sample	88	75
LCSD 880-102250/3-A	Lab Control Sample Dup	93	79
MB 880-102250/1-A	Method Blank	121	108
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis US Inc.

Job ID: 880-54170-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102262/5-A

Matrix: Solid

Analysis Batch: 102232

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00139	U	0.00200	0.00139	mg/Kg		02/07/25 09:06	02/07/25 10:59	1
Toluene	0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 09:06	02/07/25 10:59	1
Ethylbenzene	0.00109	U	0.00200	0.00109	mg/Kg		02/07/25 09:06	02/07/25 10:59	1
m-Xylene & p-Xylene	0.00229	U	0.00400	0.00229	mg/Kg		02/07/25 09:06	02/07/25 10:59	1
o-Xylene	0.00158	U	0.00200	0.00158	mg/Kg		02/07/25 09:06	02/07/25 10:59	1
Xylenes, Total	0.00229	U	0.00400	0.00229	mg/Kg		02/07/25 09:06	02/07/25 10:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	02/07/25 09:06	02/07/25 10:59	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/07/25 09:06	02/07/25 10:59	1

Lab Sample ID: LCS 880-102262/1-A

Matrix: Solid

Analysis Batch: 102232

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09314		mg/Kg		93	70 - 130
Toluene	0.100	0.08069		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08787		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1821		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09119		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-102262/2-A

Matrix: Solid

Analysis Batch: 102232

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102262

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09697		mg/Kg		97	70 - 130	4	35
Toluene	0.100	0.08339		mg/Kg		83	70 - 130	3	35
Ethylbenzene	0.100	0.09090		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1878		mg/Kg		94	70 - 130	3	35
o-Xylene	0.100	0.09356		mg/Kg		94	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.

Job ID: 880-54170-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 880-102250/1-A

Matrix: Solid

Analysis Batch: 102248

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102250

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.63	J	50.0	14.5	mg/Kg		02/07/25 08:37	02/07/25 09:22	1
Diesel Range Organics (Over C10-C28)	15.1	U	50.0	15.1	mg/Kg		02/07/25 08:37	02/07/25 09:22	1
Oil Range Organics (Over C28-C36)	15.1	U	50.0	15.1	mg/Kg		02/07/25 08:37	02/07/25 09:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				02/07/25 08:37	02/07/25 09:22	1
o-Terphenyl	108		70 - 130				02/07/25 08:37	02/07/25 09:22	1

Lab Sample ID: LCS 880-102250/2-A

Matrix: Solid

Analysis Batch: 102248

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1057		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1006		mg/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	88		70 - 130				
o-Terphenyl	75		70 - 130				

Lab Sample ID: LCSD 880-102250/3-A

Matrix: Solid

Analysis Batch: 102248

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102250

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1138		mg/Kg		114	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1070		mg/Kg		107	70 - 130	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	79		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102249/1-A

Matrix: Solid

Analysis Batch: 102271

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.395	U	10.0	0.395	mg/Kg			02/07/25 12:40	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.

Job ID: 880-54170-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-102249/2-A

Matrix: Solid

Analysis Batch: 102271

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.9		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-102249/3-A

Matrix: Solid

Analysis Batch: 102271

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	259.9		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-54170-1 MS

Matrix: Solid

Analysis Batch: 102271

Client Sample ID: Cell21-Square125-E-5-250206

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.53	J	287	314.1		mg/Kg	⊛	108	90 - 110

Lab Sample ID: 880-54170-1 MSD

Matrix: Solid

Analysis Batch: 102271

Client Sample ID: Cell21-Square125-E-5-250206

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.53	J	287	313.6		mg/Kg	⊛	108	90 - 110	0	20

Method: D2216 - Percent Moisture

Lab Sample ID: MB 880-102246/1

Matrix: Solid

Analysis Batch: 102246

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.100	U	0.100	0.100	%			02/07/25 08:35	1
Percent Solids	100		0.100	0.100	%			02/07/25 08:35	1

Lab Sample ID: 880-54170-1 DU

Matrix: Solid

Analysis Batch: 102246

Client Sample ID: Cell21-Square125-E-5-250206

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	12.6		12.4		%		2	20
Percent Solids	87.4	b	87.6		%		0.2	20

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.

Job ID: 880-54170-1

Project/Site: Chevron - Jal Land Farm Soils

GC VOA

Analysis Batch: 102232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54170-1	Cell21-Square125-E-5-250206	Total/NA	Solid	8021B	102262
880-54170-2	Cell18-Square180-E-5-250206	Total/NA	Solid	8021B	102262
MB 880-102262/5-A	Method Blank	Total/NA	Solid	8021B	102262
LCS 880-102262/1-A	Lab Control Sample	Total/NA	Solid	8021B	102262
LCSD 880-102262/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102262

Prep Batch: 102262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54170-1	Cell21-Square125-E-5-250206	Total/NA	Solid	5030B	
880-54170-2	Cell18-Square180-E-5-250206	Total/NA	Solid	5030B	
MB 880-102262/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-102262/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-102262/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 102248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54170-1	Cell21-Square125-E-5-250206	Total/NA	Solid	8015B NM	102250
880-54170-2	Cell18-Square180-E-5-250206	Total/NA	Solid	8015B NM	102250
MB 880-102250/1-A	Method Blank	Total/NA	Solid	8015B NM	102250
LCS 880-102250/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102250
LCSD 880-102250/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102250

Prep Batch: 102250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54170-1	Cell21-Square125-E-5-250206	Total/NA	Solid	8015NM Prep	
880-54170-2	Cell18-Square180-E-5-250206	Total/NA	Solid	8015NM Prep	
MB 880-102250/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102250/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102250/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 102249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54170-1	Cell21-Square125-E-5-250206	Soluble	Solid	DI Leach	
880-54170-2	Cell18-Square180-E-5-250206	Soluble	Solid	DI Leach	
MB 880-102249/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102249/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102249/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54170-1 MS	Cell21-Square125-E-5-250206	Soluble	Solid	DI Leach	
880-54170-1 MSD	Cell21-Square125-E-5-250206	Soluble	Solid	DI Leach	

Analysis Batch: 102271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54170-1	Cell21-Square125-E-5-250206	Soluble	Solid	300.0	102249
880-54170-2	Cell18-Square180-E-5-250206	Soluble	Solid	300.0	102249
MB 880-102249/1-A	Method Blank	Soluble	Solid	300.0	102249
LCS 880-102249/2-A	Lab Control Sample	Soluble	Solid	300.0	102249
LCSD 880-102249/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102249
880-54170-1 MS	Cell21-Square125-E-5-250206	Soluble	Solid	300.0	102249

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54170-1

HPLC/IC (Continued)

Analysis Batch: 102271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54170-1 MSD	Cell21-Square125-E-5-250206	Soluble	Solid	300.0	102249

General Chemistry

Analysis Batch: 102246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54170-1	Cell21-Square125-E-5-250206	Total/NA	Solid	D2216	
880-54170-2	Cell18-Square180-E-5-250206	Total/NA	Solid	D2216	
MB 880-102246/1	Method Blank	Total/NA	Solid	D2216	
880-54170-1 DU	Cell21-Square125-E-5-250206	Total/NA	Solid	D2216	

Lab Chronicle

Client: Arcadis US Inc.

Job ID: 880-54170-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square125-E-5-250206

Lab Sample ID: 880-54170-1

Date Collected: 02/06/25 12:18

Matrix: Solid

Date Received: 02/06/25 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			102246	02/07/25 08:35	CH	EET MID

Client Sample ID: Cell21-Square125-E-5-250206

Lab Sample ID: 880-54170-1

Date Collected: 02/06/25 12:18

Matrix: Solid

Date Received: 02/06/25 17:07

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	102262	02/07/25 09:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102232	02/07/25 12:02	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 15:03	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102249	02/07/25 08:36	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102271	02/07/25 12:58	CH	EET MID

Client Sample ID: Cell18-Square180-E-5-250206

Lab Sample ID: 880-54170-2

Date Collected: 02/06/25 14:05

Matrix: Solid

Date Received: 02/06/25 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			102246	02/07/25 08:35	CH	EET MID

Client Sample ID: Cell18-Square180-E-5-250206

Lab Sample ID: 880-54170-2

Date Collected: 02/06/25 14:05

Matrix: Solid

Date Received: 02/06/25 17:07

Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	102262	02/07/25 09:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102232	02/07/25 12:23	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102250	02/07/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102248	02/07/25 15:18	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102249	02/07/25 08:36	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102271	02/07/25 13:16	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54170-1

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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Method Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54170-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-54170-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-54170-1	Cell21-Square125-E-5-250206	Solid	02/06/25 12:18	02/06/25 17:07
880-54170-2	Cell18-Square180-E-5-250206	Solid	02/06/25 14:05	02/06/25 17:07

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Chain of Custody Record



Environment Testing

Client Information Client Contact: Sarah Johnson Company: Arcadis US Inc. Address: 1004 North Big Spring Suite 300 City: Midland State: TX, Zip: 79701 Phone: 303-316-6509 (Tel) Email: sarah.johnson@arcadis.com Project Name: Chevron - Jal Land Farm Soils Site:		Due Date Requested: TAT Requested (days): 241-7AT Compliance Project: ☒ Yes ☒ No PO #: PN 3027704 WO #: Project #: 88001348 SSOW#:		Carrier Tracking No.: Lab P.M.: Kuchadkar, Sachin G State of Origin: Sachin. Kuchadkar@eurofinsus.com	
Sample Identification Cell 1 - Spore 125-12-5-250206 Cell 18 - Spore 180-12-5-250206		Sample Date: 02/06/15 Sample Time: 1218 Sample Type (C=comp, G=grab): C Matrix (Water, Soil, Other): Solid		Preservation Code: BT-Tissue, A=Ab	
Analysis Requested:		MOISTURE, 2540G - Percent Moisture 300. ORG-FM, 2SD - Chloride 6015MOD, NM - Full TPH		Analysis Requested:	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)		Radiological ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if sample is not disposed of properly) ☐ Return To Client ☐ Disposal By Lab Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by:		Date:		Received by:	
Relinquished by:		Date:		Received by:	
Relinquished by:		Date:		Received by:	
Custody Seal No.:		Custody Seal No.:		Cooler Temperature (°C) and Other Remarks:	

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-54170-1

Login Number: 54170

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis US Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 1/30/2025 9:18:45 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-92301-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
1/30/2025 9:18:45 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-92301-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-92301-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Analyte was not detected at or above the SDL.

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: Arcadis US Inc.
Project: Chevron - Jal Land Farm Soils

Job ID: 860-92301-1

Job ID: 860-92301-1

Eurofins Houston

Job Narrative 860-92301-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/29/2025 9:42 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

GC/MS VOA

Method 8260C: Sample is a bulk a jar.

Cell-17-Square24-E6-250128 (860-92301-1)

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

Diesel Range Organics

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.

General Chemistry

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

Eurofins Houston

Detection Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-92301-1

Client Sample ID: Cell-17-Square24-E6-250128

Lab Sample ID: 860-92301-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	484		11.0	5.51	mg/Kg	1	✱	300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Arcadis US Inc.

Job ID: 860-92301-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell-17-Square24-E6-250128

Lab Sample ID: 860-92301-1

Date Collected: 01/28/25 16:01

Matrix: Solid

Date Received: 01/29/25 09:42

Percent Solids: 90.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000419	U	0.00110	0.000419	mg/Kg	☼	01/29/25 12:40	01/29/25 15:32	1
Toluene	0.00133	U	0.00548	0.00133	mg/Kg	☼	01/29/25 12:40	01/29/25 15:32	1
Ethylbenzene	0.000333	U	0.00110	0.000333	mg/Kg	☼	01/29/25 12:40	01/29/25 15:32	1
m,p-Xylenes	0.000474	U	0.00219	0.000474	mg/Kg	☼	01/29/25 12:40	01/29/25 15:32	1
o-Xylene	0.000346	U	0.00110	0.000346	mg/Kg	☼	01/29/25 12:40	01/29/25 15:32	1
Xylenes, Total	0.000474	U	0.00219	0.000474	mg/Kg	☼	01/29/25 12:40	01/29/25 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		56 - 150	01/29/25 12:40	01/29/25 15:32	1
4-Bromofluorobenzene (Surr)	95		68 - 152	01/29/25 12:40	01/29/25 15:32	1
Dibromofluoromethane (Surr)	93		53 - 142	01/29/25 12:40	01/29/25 15:32	1
Toluene-d8 (Surr)	92		70 - 130	01/29/25 12:40	01/29/25 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.2	U	55.0	23.2	mg/Kg	☼	01/29/25 12:01	01/29/25 12:59	1
Diesel Range Organics (Over C10-C28)	23.2	U	55.0	23.2	mg/Kg	☼	01/29/25 12:01	01/29/25 12:59	1
Oil Range Organics (Over C28-C36)	23.2	U	55.0	23.2	mg/Kg	☼	01/29/25 12:01	01/29/25 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		65 - 130	01/29/25 12:01	01/29/25 12:59	1
o-Terphenyl	88		65 - 130	01/29/25 12:01	01/29/25 12:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	484		11.0	5.51	mg/Kg	☼	01/29/25 14:47	01/29/25 20:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.2				%			01/30/25 14:18	1
Percent Solids (EPA Moisture)	90.8				%			01/30/25 14:18	1

Eurofins Houston

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-92301-1

Method: 8260C - Volatile Organic Compounds by GC/MS
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(56-150)	(68-152)	(53-142)	(70-130)
860-92301-1	Cell-17-Square24-E6-250128	120	95	93	92
LCS 860-213378/3	Lab Control Sample	98	101	97	100
LCSD 860-213378/4	Lab Control Sample Dup	94	103	94	99
MB 860-213378/9	Method Blank	112	94	99	96
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(65-130)	(65-130)
860-92301-1	Cell-17-Square24-E6-250128	93	88
LCS 860-213262/2-A	Lab Control Sample	107	119
LCSD 860-213262/3-A	Lab Control Sample Dup	110	118
MB 860-213262/1-A	Method Blank	103	97
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis US Inc.

Job ID: 860-92301-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-213378/9

Matrix: Solid

Analysis Batch: 213378

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000383	U	0.00100	0.000383	mg/Kg			01/29/25 14:30	1
Toluene	0.00121	U	0.00500	0.00121	mg/Kg			01/29/25 14:30	1
Ethylbenzene	0.000304	U	0.00100	0.000304	mg/Kg			01/29/25 14:30	1
m,p-Xylenes	0.000433	U	0.00200	0.000433	mg/Kg			01/29/25 14:30	1
o-Xylene	0.000316	U	0.00100	0.000316	mg/Kg			01/29/25 14:30	1
Xylenes, Total	0.000433	U	0.00200	0.000433	mg/Kg			01/29/25 14:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		56 - 150		01/29/25 14:30	1
4-Bromofluorobenzene (Surr)	94		68 - 152		01/29/25 14:30	1
Dibromofluoromethane (Surr)	99		53 - 142		01/29/25 14:30	1
Toluene-d8 (Surr)	96		70 - 130		01/29/25 14:30	1

Lab Sample ID: LCS 860-213378/3

Matrix: Solid

Analysis Batch: 213378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04706		mg/Kg		94	66 - 142
Toluene	0.0500	0.04771		mg/Kg		95	74 - 130
Ethylbenzene	0.0500	0.05160		mg/Kg		103	80 - 130
m,p-Xylenes	0.0500	0.05158		mg/Kg		103	78 - 130
o-Xylene	0.0500	0.05194		mg/Kg		104	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		56 - 150
4-Bromofluorobenzene (Surr)	101		68 - 152
Dibromofluoromethane (Surr)	97		53 - 142
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 860-213378/4

Matrix: Solid

Analysis Batch: 213378

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04577		mg/Kg		92	66 - 142	3	25
Toluene	0.0500	0.04677		mg/Kg		94	74 - 130	2	25
Ethylbenzene	0.0500	0.05066		mg/Kg		101	80 - 130	2	25
m,p-Xylenes	0.0500	0.04976		mg/Kg		100	78 - 130	4	25
o-Xylene	0.0500	0.05153		mg/Kg		103	79 - 130	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		56 - 150
4-Bromofluorobenzene (Surr)	103		68 - 152
Dibromofluoromethane (Surr)	94		53 - 142
Toluene-d8 (Surr)	99		70 - 130

Eurofins Houston

QC Sample Results

Client: Arcadis US Inc.

Job ID: 860-92301-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-213262/1-A

Matrix: Solid

Analysis Batch: 213298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 213262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		01/28/25 17:19	01/29/25 10:07	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		01/28/25 17:19	01/29/25 10:07	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		01/28/25 17:19	01/29/25 10:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		65 - 130				01/28/25 17:19	01/29/25 10:07	1
o-Terphenyl	97		65 - 130				01/28/25 17:19	01/29/25 10:07	1

Lab Sample ID: LCS 860-213262/2-A

Matrix: Solid

Analysis Batch: 213298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 213262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1014		mg/Kg		101	70 - 135
Diesel Range Organics (Over C10-C28)	1000	954.0		mg/Kg		95	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	107		65 - 130				
o-Terphenyl	119		65 - 130				

Lab Sample ID: LCSD 860-213262/3-A

Matrix: Solid

Analysis Batch: 213298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 213262

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1072		mg/Kg		107	70 - 135	6	35
Diesel Range Organics (Over C10-C28)	1000	955.1		mg/Kg		96	70 - 135	0	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	110		65 - 130						
o-Terphenyl	118		65 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-213482/1-A

Matrix: Solid

Analysis Batch: 213526

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 213482

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		01/29/25 14:47	01/29/25 19:45	1

Eurofins Houston

QC Sample Results

Client: Arcadis US Inc.

Job ID: 860-92301-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-213482/2-A

Matrix: Solid

Analysis Batch: 213526

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 213482

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	99.90		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 860-213482/3-A

Matrix: Solid

Analysis Batch: 213526

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 213482

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	100.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 860-92301-1 MS

Matrix: Solid

Analysis Batch: 213526

Client Sample ID: Cell-17-Square24-E6-250128

Prep Type: Total/NA

Prep Batch: 213482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	484		110	607.2	4	mg/Kg	⊛	111	90 - 110

Lab Sample ID: 860-92301-1 MSD

Matrix: Solid

Analysis Batch: 213526

Client Sample ID: Cell-17-Square24-E6-250128

Prep Type: Total/NA

Prep Batch: 213482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	484		110	606.8	4	mg/Kg	⊛	111	90 - 110	0	15

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-213769/1

Matrix: Solid

Analysis Batch: 213769

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.07				%			01/30/25 14:18	1
Percent Solids	99.9				%			01/30/25 14:18	1

Lab Sample ID: 860-92301-1 DU

Matrix: Solid

Analysis Batch: 213769

Client Sample ID: Cell-17-Square24-E6-250128

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.2		9.1		%		2	20
Percent Solids	90.8		91.0		%		0.2	20

Eurofins Houston

QC Association Summary

Client: Arcadis US Inc.

Job ID: 860-92301-1

Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Analysis Batch: 213378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-92301-1	Cell-17-Square24-E6-250128	Total/NA	Solid	8260C	213422
MB 860-213378/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-213378/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-213378/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 213422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-92301-1	Cell-17-Square24-E6-250128	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 213262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-92301-1	Cell-17-Square24-E6-250128	Total/NA	Solid	8015NM Prep	
MB 860-213262/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-213262/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-213262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 213298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-92301-1	Cell-17-Square24-E6-250128	Total/NA	Solid	8015B NM	213262
MB 860-213262/1-A	Method Blank	Total/NA	Solid	8015B NM	213262
LCS 860-213262/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	213262
LCSD 860-213262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	213262

HPLC/IC

Prep Batch: 213482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-92301-1	Cell-17-Square24-E6-250128	Total/NA	Solid	300_Prep	
MB 860-213482/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-213482/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-213482/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-92301-1 MS	Cell-17-Square24-E6-250128	Total/NA	Solid	300_Prep	
860-92301-1 MSD	Cell-17-Square24-E6-250128	Total/NA	Solid	300_Prep	

Analysis Batch: 213526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-92301-1	Cell-17-Square24-E6-250128	Total/NA	Solid	300.0	213482
MB 860-213482/1-A	Method Blank	Total/NA	Solid	300.0	213482
LCS 860-213482/2-A	Lab Control Sample	Total/NA	Solid	300.0	213482
LCSD 860-213482/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	213482
860-92301-1 MS	Cell-17-Square24-E6-250128	Total/NA	Solid	300.0	213482
860-92301-1 MSD	Cell-17-Square24-E6-250128	Total/NA	Solid	300.0	213482

General Chemistry

Analysis Batch: 213769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-92301-1	Cell-17-Square24-E6-250128	Total/NA	Solid	Moisture	
MB 860-213769/1	Method Blank	Total/NA	Solid	Moisture	
860-92301-1 DU	Cell-17-Square24-E6-250128	Total/NA	Solid	Moisture	

Eurofins Houston

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-92301-1

Client Sample ID: Cell-17-Square24-E6-250128
Date Collected: 01/28/25 16:01
Date Received: 01/29/25 09:42

Lab Sample ID: 860-92301-1
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	Moisture		1			213769	01/30/25 14:18	JC	EET HOU

Client Sample ID: Cell-17-Square24-E6-250128
Date Collected: 01/28/25 16:01
Date Received: 01/29/25 09:42

Lab Sample ID: 860-92301-1
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	213422	01/29/25 12:40	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	213378	01/29/25 15:32	KLV	EET HOU
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	213262	01/29/25 12:01	MS	EET HOU
Total/NA	Analysis	8015B NM		1			213298	01/29/25 12:59	TH	EET HOU
Total/NA	Prep	300_Prep			05.00 g	50 mL	213482	01/29/25 14:47	JC	EET HOU
Total/NA	Analysis	300.0		1			213526	01/29/25 20:25	WP	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-92301-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-04-25
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	12-20-25
Oklahoma	NELAP	1306	08-31-25
Texas	NELAP	T104704215	07-01-26
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-92301-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Prep	Microextraction	SW846	EET HOU

Protocol References:

- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Arcadis US Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-92301-1

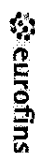
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-92301-1	Cell-17-Square24-E6-250128	Solid	01/28/25 16:01	01/29/25 09:42

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

1/30/2025

[illegible]

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 860-92301-1

Login Number: 92301

List Number: 1

Creator: Jimenez, Nicanor

List Source: Eurofins Houston

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Appendix D

Photograph Log

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 1

Description:
Excavation extent at
Cell 17 – Square 22.

Location: Cell 17 -
Square 22

Photograph taken by:
Jerry Longwell

Date: 1/29/2025



Photograph: 2

Description:
Excavation extent at
Cell 17 – Square 66.

Location: Cell 17 -
Square 66

Photograph taken by:
Jerry Longwell

Date: 1/29/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 3

Description:
Excavation extent at
Cell 17 – Square 5.

Location: Cell 17 –
Square 5

Photograph taken by:
Jerry Longwell

Date: 1/30/2025



Photograph: 4

Description:
Excavation extent at
Cell 17 – Square 66.

Location: Cell 17,
Square 66

Photograph taken by:
Jerry Longwell

Date: 1/30/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 5

Description: Backfill
material stockpiled
onsite.

Location: Jal
Landfarm, NM

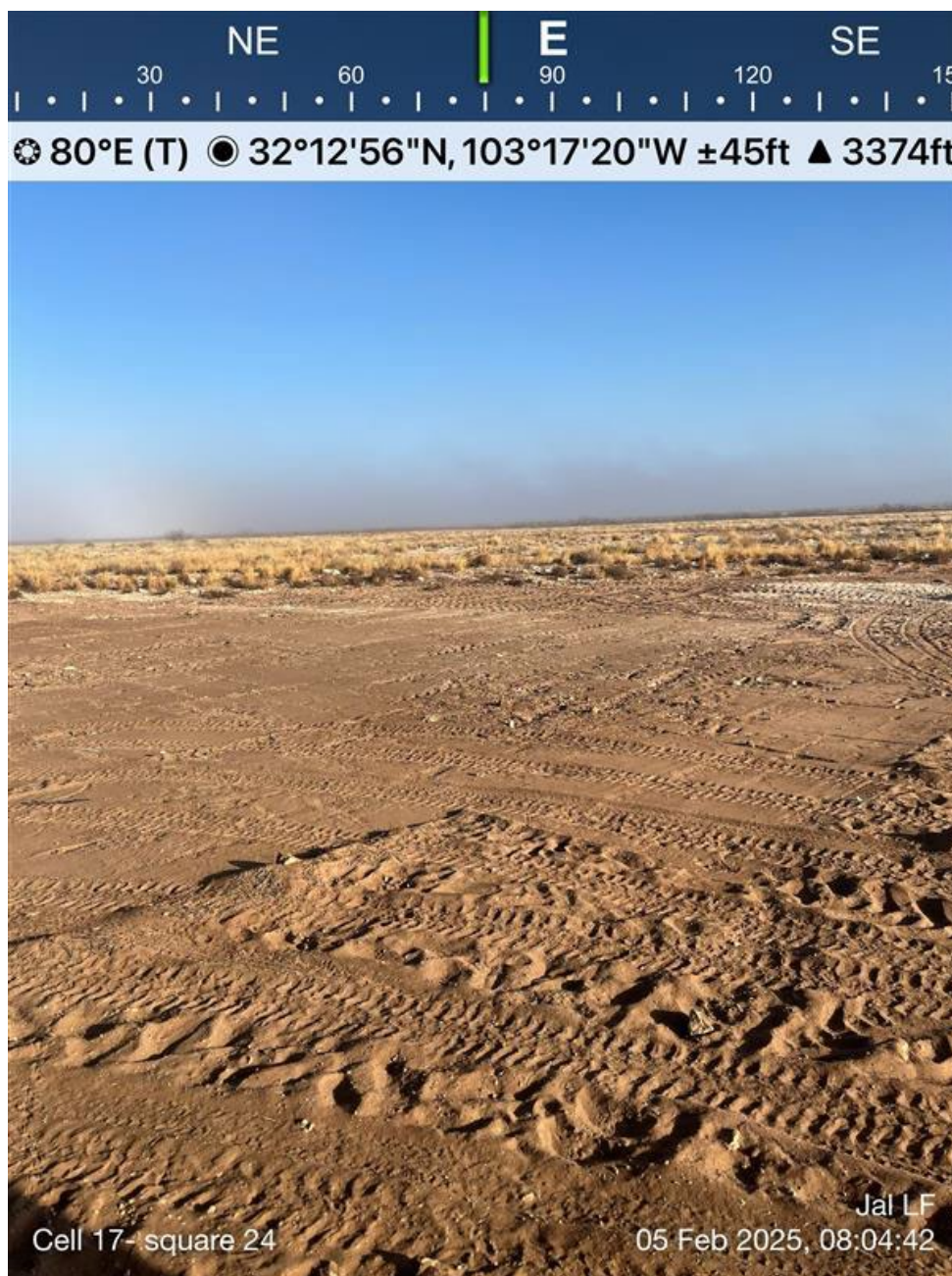
Photograph taken by:
Jerry Longwell

Date: 1/31/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 6

Description: Cell 17 -
Square 24 following
backfill and
compaction of clean
soil.

Location: Cell 17 -
Square 24

Photograph taken by:
Jerry Longwell

Date: 2/5/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 7

Description: Cell 17 -
Square 5 following
backfill and
compaction of clean
soil.

Location: Cell 17 -
Square 5

Photograph taken by:
Jerry Longwell

Date: 2/5/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 8

Description:
Excavation extent at
Cell 21 - Square 150.

Location: Cell 21 -
Square 150

Photograph taken by:
Jerry Longwell

Date: 2/6/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 9

Description:
Excavation extent at
Cell 21 - Square 89.

Location: Cell 21 -
Square 89

Photograph taken by:
Jerry Longwell

Date: 2/6/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 10

Description:
Excavation extent at
Cell 18 - Square 180.

Location: Cell 18 -
Square 180

Photograph taken by:
Jerry Longwell

Date: 2/6/2025



Photograph: 11

Description:
Excavation extent at
Cell 21 - Square 125.

Location: Cell 21 -
Square 125

Photograph taken by:
Jerry Longwell

Date: 2/6/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 12

Description: Cell 17 -
Square 22 following
backfill and
compaction of clean
soil.

Location: Cell 17 –
Square 22

Photograph taken by:
Jerry Longwell

Date: 2/7/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 13

Description: Cell 17 -
Square 66 following
backfill and
compaction of clean
soil.

Location: Cell 17 –
Square 66

Photograph taken by:
Jerry Longwell

Date: 2/7/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 14

Description: Cell 21 - Square 44 following backfill and compaction of clean soil.

Location: Cell – Square 44

Photograph taken by: Jerry Longwell

Date: 2/7/2025



Photograph: 15

Description: Cell 21 - Square 89 following backfill and compaction of clean soil.

Location: Cell 21 – Square 89

Photograph taken by: Jerry Longwell

Date: 2/7/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 16

Description: Cell 21 - Square 150 following backfill and compaction of clean soil.

Location: Cell 21 - Square 150

Photograph taken by: Jerry Longwell

Date: 2/7/2025



Photograph: 17

Description: Cell 21 - Square 125 prior to backfill.

Location: Cell 21 - Square 125

Photograph taken by: Luis Esparza

Date: 2/10/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 18

Description: Cell 18 -
Square 180 during
backfill and
compaction of clean
soil.

Location: Cell 18 -
Square 180

Photograph taken by:
Luis Esparza

Date: 2/10/2025



Photograph: 19

Description: Cell 18 -
Square 180 after
backfill and
compaction of clean
soil.

Location: Cell 18 -
Square 180

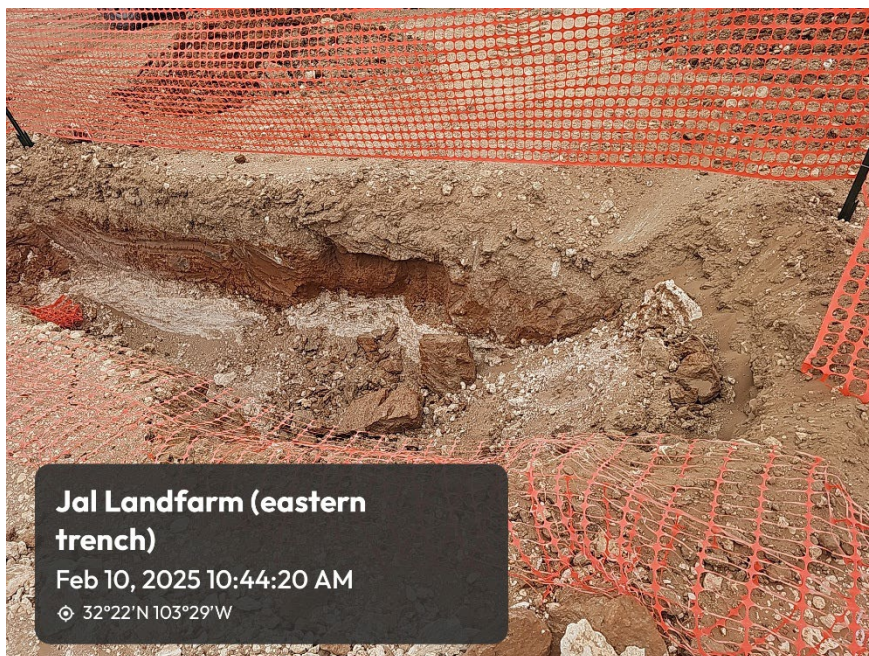
Photograph taken by:
Luis Esparza

Date: 2/10/2025

Photograph Log



Appendix D
Remediation Summary and Soil Closure Request Report
Jal, New Mexico



Photograph: 20

Description:
Excavation extent at
Cell 21 - Square 125.

Location: Cell 21 -
Square 125

Photograph taken by:
Luis Esparza

Date: 2/10/2025



Photograph: 21

Description: Site
following backfill and
compaction

Location: Jal Landfarm

Photograph taken by:
Luis Esparza

Date: 2/10/2025

Appendix E

Disposal Manifests


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1 of 2

CHEVRON - 11"X8.5" FORM PAGE 1

CHEVRON MCBU										
NON-HAZARDOUS WASTE MANIFEST					NO. <u>1</u>		1. PAGE <u>1</u> OF <u>2</u>		2. TRAILER NO. <u>12</u>	
GENERATOR INFORMATION	3. COMPANY NAME Chevron U.S.A. Inc.			4. ADDRESS 32.210056, -103.282861			5. PICK-UP DATE <u>02-03-25</u>			
	PHONE NO. 505-690-5408			CITY STATE ZIP Jal NM 88252			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY WT/Vol	
	a. Soil - E&P Exempt						1 DT		20 Y N/A	
	b.								N/A	
	c.								N/A	
	d.								N/A	
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Contract: SO 0084 WBS code UWDBU-M4098								13. WASTE PROFILE NO.	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT 24-HOUR EMERGENCY NO. Chevron OL Contact - Armando Martinez - 505-690-5408									
	15. GENERATOR'S CERTIFICATION: Heroby declare that the contents of this consignment are fully and accurately described above.									
TRANSPORTERS	PRINTED TYPED NAME Nadine Balmaceda OBO Chevron				SIGNATURE Nadine Balmaceda				DATE <u>02-03-25</u>	
	16. TRANSPORTER (1) NAME: Talon LPE Truck: 12 Phone: 575-631-4733 Name: Rene Overado IN CASE OF EMERGENCY CONTACT: David Adkins EMERGENCY PHONE: 575-746-8768				17. TRANSPORTER (2) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE <u>02-03-25</u>				19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE					
	FACILITY NAME: Gandy - Marley Inc. - Gandy Marley Landfarm				ADDRESS: 7210 E 2nd Street				PHONE: (575) 347-0434	
FACILITY DISPOSAL	PERMIT NO. 2739				20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE				CELL NO.		DATE		TIME	

Version Date: April-12-2016

☐ Approved ☐ Rejected

 Date: Approved By:

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Artwork produced by: RF

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CHEVRON - 11"X8.5" FORM PAGE 1

CHEVRON MCBU					
NON-HAZARDOUS WASTE MANIFEST		NO. <u>1</u>	1. PAGE <u>1</u> OF <u>2</u>	2. TRAILER NO. <u>12</u>	
GENERATOR	3. COMPANY NAME Chevron U.S.A. Inc. PHONE NO. 505-690-5408	4. ADDRESS 32.210056, -103.282861 CITY STATE ZIP Jal NM 88252	5. PICK-UP DATE <u>02-03-25</u>		
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT WT/Vol
	a. Soil - E&P Exempt		1	DT	20 Y N/A
	b.				N/A
	c.				N/A
TRANSPORTERS	12. COMMENTS OR SPECIAL INSTRUCTIONS: Contract: SO 0064 WBS code UWDBU-M4098		13. WASTE PROFILE NO.		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT 24-HOUR EMERGENCY NO. Chevron OL Contact - Armando Martinez - 505-690-5408				
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above.				
	PRINTED TYPED NAME Nadine Balmaceda OBO Chevron		SIGNATURE <i>Nadine Balmaceda</i>		DATE <u>02-03-25</u>
	16. TRANSPORTER (1) NAME: Talon LPE Truck: 12 Phone: 575-631-4733 Name: Rene Quezada IN CASE OF EMERGENCY CONTACT: David Adkins EMERGENCY PHONE: 575-746-8768		17. TRANSPORTER (2) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:		
18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <i>Rene Quezada</i> SIGNATURE <i>Rene Quezada</i> DATE <u>02-03-25</u>		19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE			
FACILITY DISPOSAL	FACILITY NAME Gandy - Marley Inc. - Gandy Marley Landfarm	ADDRESS 7210 E 2nd Street	PHONE (575) 347-0434		
	PERMIT NO. 2739	20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
AUTHORIZED SIGNATURE		CELL NO.	DATE	TIME	

Version Date: April-12-2016

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Date: Approved By:

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Artwork produced by: RF

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CHEVRON - 11"X8.5" FORM PAGE 2

Types of Container

BA = Burlap, cloth, paper, or plastic bags	DT = <u>Drum trucks</u>
CF = Fiber or plastic boxes, cartons, cases	DW = Wooden drums, barrels, kegs
CM = Metal boxes, cartons, cases (including roll-offs)	HG = Hopper or gondola cars or <u>trash trailers</u>
CW = Wooden boxes, cartons, cases	TC = Tank cars
CY = Cylinders	TP = <u>Portable tanks</u>
DF = Fiberboard or plastic drums, barrels, kegs	TT = <u>Tank trucks</u> or cargo tanks
DM = <u>Metal drums</u> , barrels, kegs	

Units of Measurement

G = Gallons (liquids only)	N = Cubic Meters
K = Kilograms	P = Pounds
L = Liters (liquids only)	T = Tons (2,000 Pounds)
M = Metric Tons (1,000 Kilograms)	Y = Cubic Yards
BBL = Barrels (42 gallons)	F = Cubic Feet

Version Date: April-12-2016

☐ Approved ☐ Rejected

 Date: Approved By: Submit ☐

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2 of 2

CHEVRON - 11"X8.5" FORM PAGE 2

Types of Container

BA = Burlap, cloth, paper, or plastic bags	DT = Dump truck
CF = Fiber or plastic boxes, cartons, cases	DW = Wooden drums, barrels, kegs
CM = Metal boxes, cartons, cases (including roll-offs)	HG = Hopper or gondola cars or <u>trash trailers</u>
CW = Wooden boxes, cartons, cases	TC = Tank cars
CY = Cylinders	TP = <u>Portable tanks</u>
DF = Fiberboard or plastic drums, barrels, kegs	TT = <u>Tank trucks</u> or cargo tanks
DM = <u>Metal drums</u> , barrels, kegs	

Units of Measurement

G = Gallons (liquids only)	N = Cubic Meters
K = Kilograms	P = Pounds
L = Liters (liquids only)	T = Tons (2,000 Pounds)
M = Metric Tons (1,000 Kilograms)	Y = Cubic Yards
BBL = Barrels (42 gallons)	F = Cubic Feet

Version Date: April-12-2016

☐ Approved ☐ Rejected

 Date: Approved By: Submit ☐

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Estimated size will measure: 8.5" (w) x 11" (h)

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CHEVRON - 11"X8.5" FORM PAGE 1

CHEVRON MCBU										
NON-HAZARDOUS WASTE MANIFEST					NO. <u>1</u>		1. PAGE <u>1</u> OF <u>2</u>		2. TRAILER NO. <u>21</u>	
GENERATOR	3. COMPANY NAME Chevron U.S.A. Inc.			4. ADDRESS 32.210056, -103.282861			5. PICK-UP DATE <u>02-04-25</u>			
	PHONE NO. 505-690-5408			CITY STATE ZIP Jal NM 88252			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY WT/Vol.	
	a. Soil - E&P Exempt						1		DT 20 Y N/A	
	b.								N/A	
TRANSPORTERS	c.								N/A	
	d.								N/A	
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Contract: SO 0064 WBS code UWDBU-M4098						13. WASTE PROFILE NO.			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT Chevron OL Contact - Armando Martinez - 505-690-5408						24-HOUR EMERGENCY NO.			
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above.									
FACILITY DISPOSAL	PRINTED TYPED NAME Nadine Balmaceda OBO Chevron				SIGNATURE <i>Nadine Balmaceda</i>		DATE <u>02-04-25</u>			
	16. TRANSPORTER (1) NAME: Talon LPE Phone: <u>915-540-3350</u> Truck: <u>21</u> Name: <u>José M. Garcia</u> IN CASE OF EMERGENCY CONTACT: David Adkins EMERGENCY PHONE: 575-746-8768				17. TRANSPORTER (2) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <u>José M. Garcia</u> SIGNATURE <u>[Signature]</u> DATE <u>02-04-25</u>				19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE					
	FACILITY NAME: Gandy - Marley Inc. - Gandy Marley Landfarm			ADDRESS: 7210 E 2nd Street			PHONE: (575) 347-0434			
	PERMIT NO. 2739			20. COMMENTS						
21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.										
AUTHORIZED SIGNATURE				CELL NO.		DATE		TIME		

Version Date: April-12-2016

☐ Approved ☐ Rejected

Date: Approved By:

Submit

If rejected provide details:

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Artwork produced by: RF

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size and
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CHEVRON - 11"X8.5" FORM PAGE 1

CHEVRON MCBU										
NON-HAZARDOUS WASTE MANIFEST				NO: 1	1. PAGE 1 OF 2	2. TRAILER NO. 02				
C E N T R A L I Z E D	3. COMPANY NAME Chevron U.S.A. Inc.			4. ADDRESS 32 210056, -103.282861			5. PICK-UP DATE 02-06-25			
	PHONE NO. 505-690-5408			CITY Jal	STATE NM	ZIP 88252	6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS No. Type		9. TOTAL QUANTITY	10. UNIT WT/Vol	11.		
	a. Soil - E&P Exempt			1		DT	20	Y	N/A	
	b.							N/A		
c.							N/A			
d.							N/A			
12. COMMENTS OR SPECIAL INSTRUCTIONS:			13. WASTE PROFILE NO.							
Contract: SO 0064 WBS code UWDBU-M4098										
14. IN CASE OF EMERGENCY OR SPILL, CONTACT			24-HOUR EMERGENCY NO.							
Chevron OL Contact - Armando Martinez - 505-690-5408										
15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this manifest are fully and accurately described above.										
T R A N S P O R T E R S	PRINTED TYPED NAME			SIGNATURE			DATE			
	Nadine Balmaceda OBO Chevron			Nadine Balmaceda			02-06-25			
	16. TRANSPORTER (1) NAME: Tajon LPE Phone: 575-552-6885			17. TRANSPORTER (2)						
	TRUCK: 02 Name: Edgar Munoz IN CASE OF EMERGENCY CONTACT: David Adkins EMERGENCY PHONE: 575-746-8768			IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:						
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material						
PRINTED/TYPED NAME			PRINTED/TYPED NAME			DATE			DATE	
SIGNATURE			SIGNATURE			DATE			DATE	
F A C I L I T Y D I S P O S A L	FACILITY NAME:			ADDRESS:			PHONE:			
	Gandy - Marley Inc. - Gandy Marley Landfarm			7210 E 2nd Street			(575) 347-0434			
	20. COMMENTS									
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
AUTHORIZED SIGNATURE			CELL NO.			DATE			TIME	

☐ Approved ☐ Rejected

 Date: Approved By:

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 Artwork produced by: RF

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CHEVRON - 11"X8.5" FORM PAGE 1

CHEVRON MCBU										
NON-HAZARDOUS WASTE MANIFEST					NO: <u>1</u>		1. PAGE <u>1</u> OF <u>2</u>		2. TRAILER NO. <u>07</u>	
C E N T R A L O R T O R	3. COMPANY NAME Chevron U.S.A. Inc.			4. ADDRESS 32.210056, -103.282861			5. PICK-UP DATE 02/07/25			
	PHONE NO. 505-690-5408			CITY STATE ZIP Jal NM 88252			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY WT/Vol.	
	a. Soil - E&P Exempt						1		DT 20 Y N/A	
	b.								N/A	
E N V I R O N M E N T	c.								N/A	
	d.								N/A	
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Contract: SO 0064 WBS code UWDBU-M4098						13. WASTE PROFILE NO.			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT Chevron OL Contact - Armando Martinez - 505-690-5408						24-HOUR EMERGENCY NO.			
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this commitment are fully and accurately described above.									
T R A N S P O R T E R S	PRINTED TYPED NAME Nadine Balmaceda OBO Chevron				SIGNATURE Nadine Balmaceda				DATE 02/07/25	
	16. TRANSPORTER (1) NAME: Talon LPE Phone: 385-354-8793 Truck: 07 Name: Jan Bruggman IN CASE OF EMERGENCY CONTACT: David Adkins EMERGENCY PHONE: 575-746-8768				17. TRANSPORTER (2) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:					
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE 02/07/25				19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE					
	FACILITY NAME: Gandy - Marley Inc. - Gandy Marley Landfarm				ADDRESS: 7210 E 2nd Street				PHONE: (575) 347-0434	
	PERMIT NO. 2739				20. COMMENTS					
D I S P O S A L	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE				CELL NO.		DATE		TIME	

Version Date: April-12-2016

☐ Approved ☐ Rejected

Date: Approved By:

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Artwork produced by: RF

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CHEVRON - 11"X8.5" FORM PAGE 1

CHEVRON MCBU										
NON-HAZARDOUS WASTE MANIFEST					NO: <u>1</u>		1. PAGE <u>1</u> OF <u>2</u>		2. TRAILER NO. <u>02</u>	
C E N T R A L O F F I C E	3. COMPANY NAME Chevron U.S.A. Inc.			4. ADDRESS 32.210056, -103.282861			5. PICK-UP DATE <u>02/07/25</u>			
	PHONE NO. 505-690-5408			CITY STATE ZIP Jal NM 88252			6.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY Wt/Vol	
	a. Soil - E&P Exempt						1 DT		20 Y N/A	
	b.								N/A	
	c.								N/A	
	d.								N/A	
	12. COMMENTS OR SPECIAL INSTRUCTIONS: Contract SO 0064 WBS code UWDBU-M4098						13. WASTE PROFILE NO.			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT						24-HOUR EMERGENCY NO. Chevron OL Contact - Armando Martinez - 505-690-5408			
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above.									
T R A N S P O R T E R S	PRINTED TYPED NAME Nadine Balmaceda OBO Chevron			SIGNATURE <i>Nadine Balmaceda</i>			DATE <u>02/07/25</u>			
	16. TRANSPORTER (1) NAME: Talon LPE Phone: 575-552-4385 Truck: 02 Name: Edwin Munoz IN CASE OF EMERGENCY CONTACT: David Adkins EMERGENCY PHONE: 575-746-8768			17. TRANSPORTER (2) NAME IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:						
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <i>Edwin Munoz</i> SIGNATURE <i>Edwin Munoz</i> DATE <u>02/07/25</u>			19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE						
	FACILITY NAME: Gandy - Marley Inc. - Gandy Marley Landfarm			ADDRESS: 7210 E 2nd Street			PHONE: (575) 347-0434			
F A C I L I T Y D I S P O S A L	PERMIT NO. 2739			20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE			CELL NO.		DATE		TIME		

Version Date: April 12-2016

☐ Approved ☐ Rejected

Date: Approved By:

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Estimated size will measure: 8.5" (w) x 11" (h)

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CONDITIONS

Action 443473

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 443473
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
joseph.kennedy	This approval is for RECORDS RETENTION ONLY. This Soil Closure Request has already approved by the Incidents Group of the OCD on 4/28/2025, WITH CONDITIONS. Please see Incident ID nAPP2113741693	10/22/2025