Incident ID: nAPP2500852292
Delineation Report and Remediation Plan
Chamaeleon BIN State Com Battery – Spill 3
Crude Oil Release
Eddy County, New Mexico

Latitude: 32.019736
Longitude: -104.14068

LAI Project No. 25-0101-01

January 31, 2025

Prepared for:
Chevron USA, Inc.
6301 Deauville Blvd.
Midland, Texas 79706

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 201
Midland, Texas 79701

Mark Larson
Certified Professional Geologist #10490

Daniel St. Germain
Daniel St. Germain
Staff Geologist

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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Chevron USA, Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District II in Artesia, New Mexico, for a produced water release at the Chamaeleon BIN State Com Battery (Site) located in Unit B, Section 25, Township 26 South, Range 27 East in Eddy County, New Mexico. The geodetic position is North 32.019736°, and West -104.14068°. Figure 1 presents a topographic map.

1.1 Background

The release was discovered on December 29, 2024, and was caused by fluid overflow from the flare, resulting in a small fire. About 0.014 barrels (bbls) of crude oil was released onto the pad and covered an area of approximately 91 square feet; none of the released fluid was recovered. The incident occurred on land owned by the State of New Mexico land, managed by New Mexico State Land Office (NMSLO). The initial C-141 and spill calculation were submitted to the NMOCD District II on January 9, 2025, and was assigned incident number nAPP2500852292.

Appendix A presents the initial C-141 and Chevron spill calculation.

1.2 Physical Setting

The physical setting is as follows:

- Surface elevation is approximately 3,109 feet above mean sea level (msl).
- Surface topography slopes gently to the north.
- The nearest continuously flowing water course (Pecos River) is located about 7.05 miles to the northeast.
- The nearest lakebed, sinkhole, or playa lake is located about 3.0 miles to the northeast.
- The nearest wetland is located about 0.52 miles to the northwest.
- The nearest subsurface mine is located about 27.5 miles to the northeast.
- The nearest 100-year flood plain is located 0.4 miles to the north.
- There nearest active water well for stock watering is located about 2.0 miles to the west.
- USGS karst occurrence potential data designates the area as “high” risk.
- The soils are designated as Gypsum Land – Cottonwood Complex, with Gypsum Land consisting primarily of gypsum, and Cottonwood complex consisting of 8 inches of loam and underlaid by bedrock.
- The Salado Formation (upper Permian) is the uppermost geologic unit and is an evaporite sequence composed predominantly of halite.
- Groundwater was reported at 50 feet below ground surface (bgs), based on a groundwater well drilled on September 12, 2002, about 2.0 miles northwest of the Site (C-02930).

Appendix B presents a karst potential map. Appendix C presents the well record and log for C-02930.

1.3 Remediation Standards

The following delineation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC for groundwater less than 51 feet bgs:

Parameter	Limit
Benzene	10 mg/Kg
BTEX	50 mg/Kg
TPH	100 mg/Kg
Chloride	600 mg/Kg

Further, 19.15.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

2.0 DELINEATION

January 13, 2025, LAI personnel used a stainless-steel hand auger to collect 12 samples from six locations (S-1 through S-6), at 0 (surface level) and 0.5 feet bgs. Two location (S-5 and S-6) were located inside of the spill area, and four samples (S-1 through S-4) were collected outside of the spill area, in each cardinal direction. The samples were delivered under chain-of-custody and preservation to Eurofins Laboratories (Eurofins) in Midland, Texas. Eurofins analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW-846 Method 8021B; total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by Method 8015M; and chloride by EPA Method 300.
Benzene and BTEX were reported below the NMOCD remediation standards of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively, in all samples. TPH was reported about the delineation limit of 100 mg/Kg in the lower most sample from S-5 (501 mg/Kg). Chloride was reported above the delineation limit of 600 mg/kg in the lowermost sample collected from S-6 (1,240 mg/Kg).

The release was not fully delineated due to hard subsurface conditions (anhydrite/gypsum) and proximity to production equipment that prevented access with mechanical drilling equipment. The spill will be fully delineated during remediation. Table 1 presents the delineation soil sample analytical data. Figure 3 presents the soil sample location map. Appendix F presents the laboratory analytical reports.

3.0 REMEDIATION PLAN

Chevron proposes the following remedial actions:

- Use hydro and/or mechanical excavation methods to remove approximately 25 cubic yards of soil from an area of about 200 square feet to a depth between one (1) and three (3) feet bgs or greater, depending on analytical results of confirmation soil samples.
- Collect delineation samples from locations S-5 and S-6 after excavation is complete and analyze for BTEX, TPH, and chloride.
- Collect two (2) composite confirmation samples from the bottom and sidewall of the excavation, or approximately every 200 square feet, and analyze for BTEX, TPH, and chloride.
- Collect one (1) composite backfill sample from backfill material, and analyze for BTEX, TPH, and chloride.
- Backfill excavation with non-waste containing soil to surface level, assuming all confirmation and backfill samples are below NMOCD closure criteria.
- Prepare closure report for submittal to the NMOCD.

Figure 3 presents the proposed excavation map.

Tables

Table 1
Delineation Soil Sample Analytical Data Summary
Chamaeleon BIN State Com Battery - Spill 3
Eddy County, New Mexico
32.01973,-104.14068

Sample ID	Depth Feet	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limits:				***10***	***50***				***100***	***600***
S-1	0	01/13/2025	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**229**
S-1	0.5	01/13/2025	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**233**
S-2	0	01/13/2025	In-situ	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	**34.7**
S-2	0.5	01/13/2025	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	**33.5**
S-3	0	01/13/2025	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**401**
S-3	0.5	01/13/2025	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**417**
S-4	0	01/13/2025	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**142**
S-4	0.5	01/13/2025	In-situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	**177**
S-5	0	01/13/2025	In-situ	<0.00201	0.155	<49.9	**2,020**	<49.9	**2020**	**1,390**
S-5	0.5	01/13/2025	In-situ	<0.00202	0	<49.8	**501**	<49.8	**501**	**383**
S-6	0	01/13/2025	In-situ	<0.00199	0.0164	<49.8	**70.2**	<49.8	**70.2**	**2,840**
S-6	0.5	01/13/2025	In-situ	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	**1,240**

Notes:

Analysis performed by Eurofins Laboratories (Eurofins), in Midland, Texas, by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and EPA Method 300 (chloride).
BTEX: benzene, toluene, ethylbenzene, xylene
TPH: total petroleum hydrocarbons
GRO: gasoline range organics (C6-C10)
DRO: diesel range organics (>C10-C28)
MRO: oil range organics (>C28-C36)
mg/Kg: milligrams per kilogram; equivalent to parts per million (ppm)
<: indicates that parameter concentration is below analytical method reporting limit
Depth reported in feet below ground surface (bgs)
Bold and highlighted indicates parameter concentration is above NMOCD delineation criteria

Figures

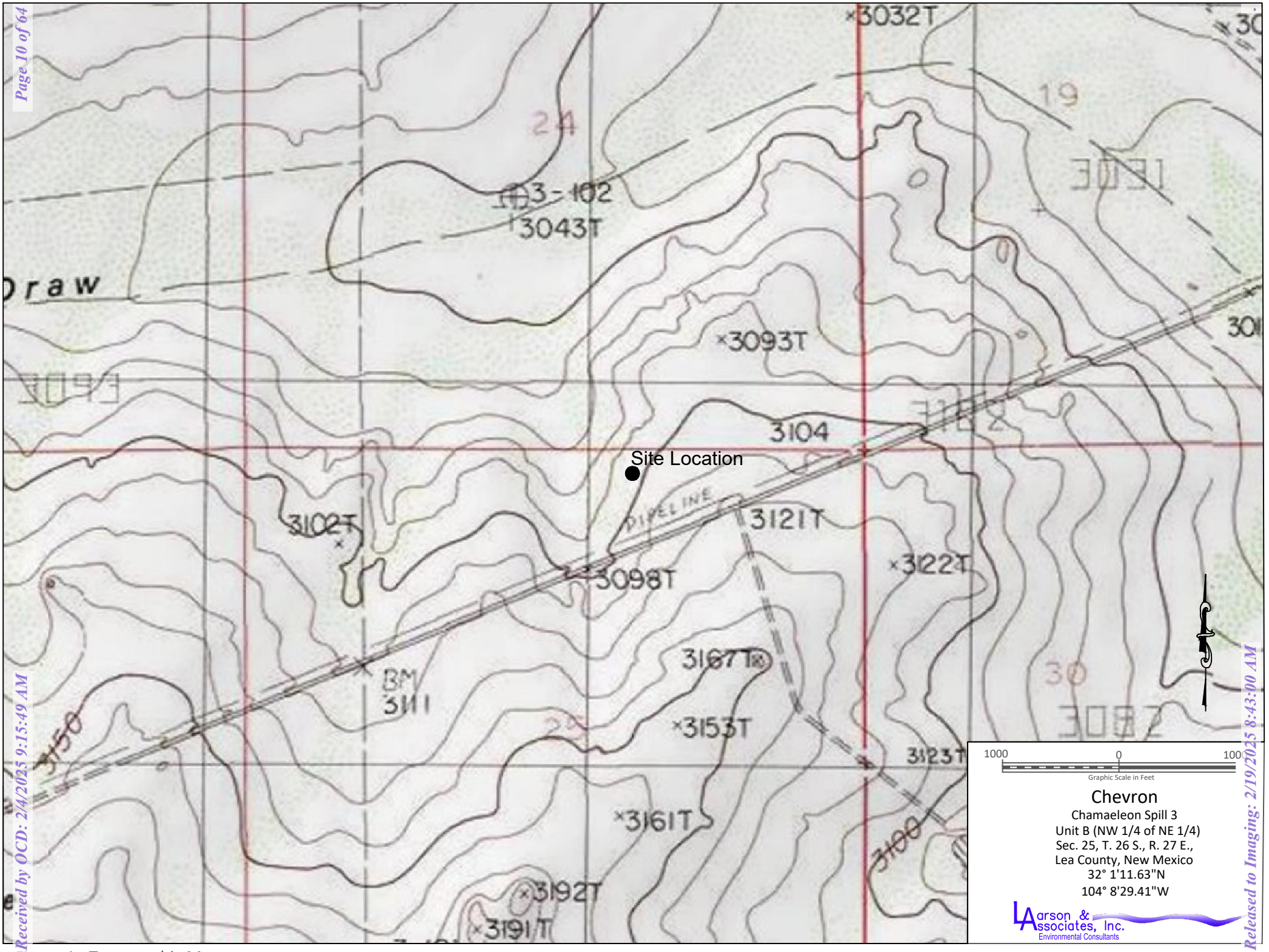

Figure 1 - Topographic Map

Figure 2 - Aerial Map

Figure 3 - Aerial Map Showing Proposed Excavation Area

Appendix A

Initial C-141 and Spill Calculation

Spilled Material:
Oil Released: 0.014 bbl
Oil Recovered: bbl
Water Released: bbl
Water Recovered: bbl

Calculation Details									
Area	**Shape**	**Secondary Containment**	**Standing Liquid Dimension**	**Standing Liquid Volume**	**Water Cut**	**Oil Volume**	**Penetration Depth**	**Water to Soil Volume**	**Water Volume**
1	Circle	Caliche	4 ft x 0	0.014 bbl	0%	0.014 bbl	.500 in	0.014 bbl	
2				bbl	%	bbl		bbl	
3				bbl	%	bbl		bbl	
4				bbl	%	bbl		bbl	
5				bbl	%	bbl		bbl	
6				bbl	%	bbl		bbl	
7				bbl	%	bbl		bbl	
Rec Vol									
Total Vol						0.014			

Weather
Conditions: Cloudy
Temperature: 32°F
Relative Humidity: 82%
Wind Direction: 10°
Wind Speed: 1 mph

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 418731
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2500852292**
Incident Name	**NAPP2500852292 CHAMAELEON BIN STATE COM BATTERY @ 0**
Incident Type	**Fire**
Incident Status	**Initial C-141 Received**
Incident Facility	**[fAPP2131330137] Chamaeleon BIN State Com Battery**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Chamaeleon BIN State Com Battery
Date Release Discovered	12/29/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure | Other (Specify) | Crude Oil | Released: 0 BBL | Recovered: 0 BBL | Lost: 0 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Fluid overflowed and exited out of the flare.

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 418731
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 01/08/2025

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Phone: (505) 476-3441

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 418731
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	No
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

CONDITIONS

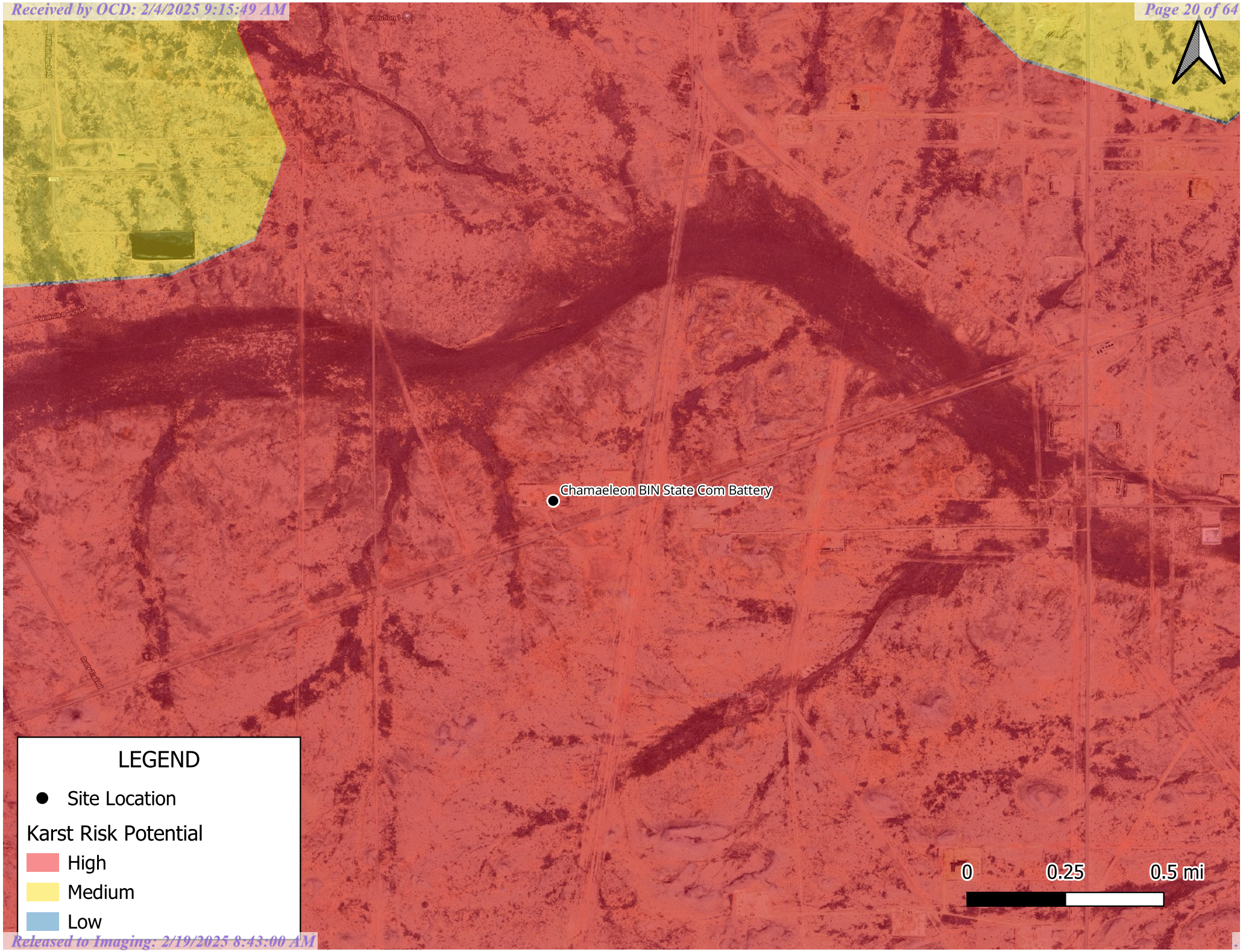
Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 418731
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	1/13/2025

Appendix B

Karst Risk Potential


Chamaeleon BIN State Com Battery
LEGEND
Site Location
Karst Risk Potential
High
Medium
Low
0
0.25
0.5 mi

Appendix C

Well Record and Logs

2

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

472362

Section 1. GENERAL INFORMATION

(A) Owner of well Phil Stell Owner's Well No. C-2930

Street or Post Office Address 1305 January

City and State Carlsbad, NM 88220

Well was drilled under Permit No. _____ and is located in the:

a. NE ¼ S.W ¼ SE ¼ ¼ of Section 22 Township 26 S Range 27 E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor B & H Drilling License No. 1027

Address P.O. Box 72

Drilling Began 9-6-02 Completed 9-12-02 Type tools Cable Size of hole 7" in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 100' ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 50 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
50'	62'	12'	Lime, Sand, Gravel	
80'	100'	20'	Lime	12 G.P.M.

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6"			100'	100'		N/A	50'	100'

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

2002 DEC 19 PM 3:51
STATE ENGINEER OFFICE ROSWELL, NEW MEXICO

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received Dec. 19, 2002

Quad _____ FWL _____ FSL _____

File No. C-2930 Use Dom/Stk Location No. 26S.27.22.432

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0'	35'	35'	Topsoil & Caliche
35'	45'	10'	Gypsum & Red Sand
45'	50'	5'	Red Sand & Anhydrite
50'	62'	12'	Lime & Sand & Gravel (water)
62'	72'	10'	Tan/White Sand
72'	76'	4'	Red Bed
76'	80'	4'	Anhydrite
80'	100'	20'	Lime (water)

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Scott Dobson
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Appendix D

Laboratory Report

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 1/17/2025 10:53:43 AM

JOB DESCRIPTION

Chamaeleon
25-0101-01

JOB NUMBER

880-53142-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

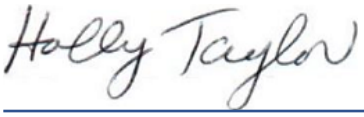
Eurofins Midland

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
1/17/2025 10:53:43 AM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Laboratory Job ID: 880-53142-1
SDG: 25-0101-01

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-53142-1
Project/Site: Chamaeleon SDG: 25-0101-01

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-53142-1
Project: Chamaeleon

Job ID: 880-53142-1 Eurofins Midland

Job Narrative
880-53142-1

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 1/14/2025 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 0 (880-53142-1), S-1 0.5 (880-53142-2), S-2 0 (880-53142-3), S-2 0.5 (880-53142-4), S-3 0 (880-53142-5), S-3 0.5 (880-53142-6), S-4 0 (880-53142-7), S-4 0.5 (880-53142-8), S-5 0 (880-53142-9), S-5 0.5 (880-53142-10), S-6 0 (880-53142-11) and S-6 0.5 (880-53142-12).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: S-5 0 (880-53142-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-100396 and analytical batch 880-100394 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 matrix spike duplicate (MSD) recoveries for preparation batch 880-100234 and analytical batch 880-100195 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-1 0.5 (880-53142-2), S-2 0 (880-53142-3), S-2 0.5 (880-53142-4), S-3 0 (880-53142-5), S-3 0.5 (880-53142-6), S-4 0.5 (880-53142-8) and S-6 0.5 (880-53142-12). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-53142-A-2-B MS) and (880-53142-A-2-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-5 0 (880-53142-9). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-100233 and analytical batch 880-100200 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
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-100419 and analytical batch 880-100434 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.

Eurofins Midland

Case Narrative

Client: Larson & Associates, Inc.
Project: Chamaeleon

Job ID: 880-53142-1

Job ID: 880-53142-1 (Continued) Eurofins Midland

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-1 0

Date Collected: 01/13/25 11:37
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 11:46	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		01/16/25 08:49	01/16/25 11:46	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/16/25 08:49	01/16/25 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 11:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/16/25 08:49	01/16/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*01/16/25 08:49*	*01/16/25 11:46*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/16/25 08:49*	*01/16/25 11:46*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/14/25 22:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/14/25 10:23	01/14/25 22:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/14/25 10:23	01/14/25 22:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/14/25 10:23	01/14/25 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*01/14/25 10:23*	*01/14/25 22:59*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*01/14/25 10:23*	*01/14/25 22:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**229**	**F1**	10.1		mg/Kg			01/16/25 16:23	1

Client Sample ID: S-1 0.5

Date Collected: 01/13/25 11:42
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/16/25 08:49	01/16/25 12:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/25 08:49	01/16/25 12:07	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		01/16/25 08:49	01/16/25 12:07	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/16/25 08:49	01/16/25 12:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/16/25 08:49	01/16/25 12:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/16/25 08:49	01/16/25 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/16/25 08:49*	*01/16/25 12:07*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/16/25 08:49*	*01/16/25 12:07*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/15/25 00:31	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-1 0.5

Date Collected: 01/13/25 11:42
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		01/14/25 10:26	01/15/25 00:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/25 10:26	01/15/25 00:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/25 10:26	01/15/25 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 00:31*	*1*
o-Terphenyl (Surr)	*63*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 00:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**233**		10.0		mg/Kg			01/16/25 16:41	1

Client Sample ID: S-2 0

Date Collected: 01/13/25 11:45
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 12:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 12:27	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		01/16/25 08:49	01/16/25 12:27	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/16/25 08:49	01/16/25 12:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 12:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/16/25 08:49	01/16/25 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/16/25 08:49*	*01/16/25 12:27*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/16/25 08:49*	*01/16/25 12:27*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/15/25 01:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/14/25 10:26	01/15/25 01:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/14/25 10:26	01/15/25 01:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/14/25 10:26	01/15/25 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*66*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 01:16*	*1*
o-Terphenyl (Surr)	*64*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 01:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.7**		9.90		mg/Kg			01/16/25 16:47	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-2 0.5

Date Collected: 01/13/25 11:47
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/16/25 08:49	01/16/25 12:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/25 08:49	01/16/25 12:48	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		01/16/25 08:49	01/16/25 12:48	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/16/25 08:49	01/16/25 12:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/16/25 08:49	01/16/25 12:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/16/25 08:49	01/16/25 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/16/25 08:49*	*01/16/25 12:48*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/16/25 08:49*	*01/16/25 12:48*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/15/25 01:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/14/25 10:26	01/15/25 01:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/14/25 10:26	01/15/25 01:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/14/25 10:26	01/15/25 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*63*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 01:30*	*1*
o-Terphenyl (Surr)	*60*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.5**		10.0		mg/Kg			01/16/25 16:53	1

Client Sample ID: S-3 0

Date Collected: 01/13/25 11:50
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/16/25 08:49	01/16/25 13:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/25 08:49	01/16/25 13:08	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		01/16/25 08:49	01/16/25 13:08	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/25 08:49	01/16/25 13:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/25 08:49	01/16/25 13:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/25 08:49	01/16/25 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/16/25 08:49*	*01/16/25 13:08*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/16/25 08:49*	*01/16/25 13:08*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/15/25 01:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-3 0

Date Collected: 01/13/25 11:50
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/14/25 10:26	01/15/25 01:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/14/25 10:26	01/15/25 01:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/14/25 10:26	01/15/25 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*65*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 01:45*	*1*
o-Terphenyl (Surr)	*63*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 01:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**401**		9.98		mg/Kg			01/16/25 16:59	1

Client Sample ID: S-3 0.5

Date Collected: 01/13/25 11:52
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/16/25 08:49	01/16/25 13:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/25 08:49	01/16/25 13:29	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		01/16/25 08:49	01/16/25 13:29	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/16/25 08:49	01/16/25 13:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/16/25 08:49	01/16/25 13:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/16/25 08:49	01/16/25 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*01/16/25 08:49*	*01/16/25 13:29*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/16/25 08:49*	*01/16/25 13:29*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/15/25 02:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/25 10:26	01/15/25 02:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/25 10:26	01/15/25 02:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/25 10:26	01/15/25 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*58*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 02:00*	*1*
o-Terphenyl (Surr)	*57*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 02:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**417**		9.94		mg/Kg			01/16/25 17:16	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-4 0

Date Collected: 01/13/25 11:54
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/16/25 08:49	01/16/25 13:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/25 08:49	01/16/25 13:49	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		01/16/25 08:49	01/16/25 13:49	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/25 08:49	01/16/25 13:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/25 08:49	01/16/25 13:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/25 08:49	01/16/25 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/16/25 08:49*	*01/16/25 13:49*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/16/25 08:49*	*01/16/25 13:49*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/15/25 02:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/14/25 10:26	01/15/25 02:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/14/25 10:26	01/15/25 02:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/14/25 10:26	01/15/25 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*73*		*70 - 130*	*01/14/25 10:26*	*01/15/25 02:14*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*01/14/25 10:26*	*01/15/25 02:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**142**		10.1		mg/Kg			01/16/25 17:22	1

Client Sample ID: S-4 0.5

Date Collected: 01/13/25 11:56
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 14:10	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		01/16/25 08:49	01/16/25 14:10	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/16/25 08:49	01/16/25 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 14:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/25 08:49	01/16/25 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*01/16/25 08:49*	*01/16/25 14:10*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/16/25 08:49*	*01/16/25 14:10*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/15/25 02:29	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-4 0.5

Date Collected: 01/13/25 11:56
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/25 10:26	01/15/25 02:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/25 10:26	01/15/25 02:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/25 10:26	01/15/25 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*66*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 02:29*	*1*
o-Terphenyl (Surr)	*63*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 02:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**177**		10.1		mg/Kg			01/16/25 17:28	1

Client Sample ID: S-5 0

Date Collected: 01/13/25 11:59
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/16/25 08:49	01/16/25 14:30	1
Toluene	**0.0119**		0.00201		mg/Kg		01/16/25 08:49	01/16/25 14:30	1
Ethylbenzene	**0.0171**	*+	0.00201		mg/Kg		01/16/25 08:49	01/16/25 14:30	1
m,p-Xylenes	**0.0898**		0.00402		mg/Kg		01/16/25 08:49	01/16/25 14:30	1
o-Xylene	**0.0358**		0.00201		mg/Kg		01/16/25 08:49	01/16/25 14:30	1
Xylenes, Total	**0.126**		0.00402		mg/Kg		01/16/25 08:49	01/16/25 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*01/16/25 08:49*	*01/16/25 14:30*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/16/25 08:49*	*01/16/25 14:30*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2020**		49.9		mg/Kg			01/15/25 02:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/14/25 10:26	01/15/25 02:43	1
Diesel Range Organics (Over C10-C28)	**2020**		49.9		mg/Kg		01/14/25 10:26	01/15/25 02:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/14/25 10:26	01/15/25 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 02:43*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*01/14/25 10:26*	*01/15/25 02:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1390**		49.8		mg/Kg			01/16/25 17:34	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-5 0.5

Date Collected: 01/13/25 12:02
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/16/25 08:49	01/16/25 16:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/16/25 08:49	01/16/25 16:14	1
Ethylbenzene	**0.00815**	***+**	0.00202		mg/Kg		01/16/25 08:49	01/16/25 16:14	1
m,p-Xylenes	**0.0413**		0.00404		mg/Kg		01/16/25 08:49	01/16/25 16:14	1
o-Xylene	**0.0180**		0.00202		mg/Kg		01/16/25 08:49	01/16/25 16:14	1
Xylenes, Total	**0.0593**		0.00404		mg/Kg		01/16/25 08:49	01/16/25 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*01/16/25 08:49*	*01/16/25 16:14*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/16/25 08:49*	*01/16/25 16:14*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**501**		49.8		mg/Kg			01/15/25 02:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/14/25 10:26	01/15/25 02:58	1
Diesel Range Organics (Over C10-C28)	**501**		49.8		mg/Kg		01/14/25 10:26	01/15/25 02:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/14/25 10:26	01/15/25 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*70*		*70 - 130*	*01/14/25 10:26*	*01/15/25 02:58*	*1*
o-Terphenyl (Surr)	*81*		*70 - 130*	*01/14/25 10:26*	*01/15/25 02:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**383**		10.0		mg/Kg			01/16/25 17:40	1

Client Sample ID: S-6 0

Date Collected: 01/13/25 12:07
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/16/25 08:49	01/16/25 16:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/25 08:49	01/16/25 16:35	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		01/16/25 08:49	01/16/25 16:35	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/25 08:49	01/16/25 16:35	1
o-Xylene	**0.0164**		0.00199		mg/Kg		01/16/25 08:49	01/16/25 16:35	1
Xylenes, Total	**0.0164**		0.00398		mg/Kg		01/16/25 08:49	01/16/25 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/16/25 08:49*	*01/16/25 16:35*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/16/25 08:49*	*01/16/25 16:35*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**70.2**		49.8		mg/Kg			01/15/25 03:12	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-6 0

Date Collected: 01/13/25 12:07
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/14/25 10:26	01/15/25 03:12	1
Diesel Range Organics (Over C10-C28)	**70.2**		49.8		mg/Kg		01/14/25 10:26	01/15/25 03:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/14/25 10:26	01/15/25 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/14/25 10:26*	*01/15/25 03:12*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*01/14/25 10:26*	*01/15/25 03:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2840**	**F1**	199		mg/Kg			01/16/25 17:46	20

Client Sample ID: S-6 0.5

Date Collected: 01/13/25 12:09
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 16:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 16:55	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		01/16/25 08:49	01/16/25 16:55	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/16/25 08:49	01/16/25 16:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 16:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/16/25 08:49	01/16/25 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/16/25 08:49*	*01/16/25 16:55*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/16/25 08:49*	*01/16/25 16:55*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/15/25 03:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/14/25 10:26	01/15/25 03:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/14/25 10:26	01/15/25 03:27	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/14/25 10:26	01/15/25 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*68*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 03:27*	*1*
o-Terphenyl (Surr)	*66*	*S1-*	*70 - 130*	*01/14/25 10:26*	*01/15/25 03:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1240**		50.2		mg/Kg			01/16/25 18:03	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-53142-1	S-1 0	92	89
880-53142-1 MS	S-1 0	97	103
880-53142-1 MSD	S-1 0	117	88
880-53142-2	S-1 0.5	95	90
880-53142-3	S-2 0	90	91
880-53142-4	S-2 0.5	96	89
880-53142-5	S-3 0	95	91
880-53142-6	S-3 0.5	105	86
880-53142-7	S-4 0	96	92
880-53142-8	S-4 0.5	92	91
880-53142-9	S-5 0	137 S1+	99
880-53142-10	S-5 0.5	121	99
880-53142-11	S-6 0	96	93
880-53142-12	S-6 0.5	97	93
LCS 880-100396/1-A	Lab Control Sample	98	104
LCSD 880-100396/2-A	Lab Control Sample Dup	111	83
MB 880-100396/5-A	Method Blank	88	94

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-53142-1	S-1 0	102	101
880-53142-2	S-1 0.5	69 S1-	63 S1-
880-53142-2 MS	S-1 0.5	74	67 S1-
880-53142-2 MSD	S-1 0.5	73	66 S1-
880-53142-3	S-2 0	66 S1-	64 S1-
880-53142-4	S-2 0.5	63 S1-	60 S1-
880-53142-5	S-3 0	65 S1-	63 S1-
880-53142-6	S-3 0.5	58 S1-	57 S1-
880-53142-7	S-4 0	73	71
880-53142-8	S-4 0.5	66 S1-	63 S1-
880-53142-9	S-5 0	69 S1-	119
880-53142-10	S-5 0.5	70	81
880-53142-11	S-6 0	71	71
880-53142-12	S-6 0.5	68 S1-	66 S1-
LCS 880-100233/2-A	Lab Control Sample	104	115
LCS 880-100234/2-A	Lab Control Sample	88	83
LCSD 880-100233/3-A	Lab Control Sample Dup	109	116
LCSD 880-100234/3-A	Lab Control Sample Dup	85	80
MB 880-100233/1-A	Method Blank	145 S1+	272 S1+
MB 880-100234/1-A	Method Blank	76	77

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100396/5-A
Matrix: Solid
Analysis Batch: 100394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100396

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 11:25	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/16/25 08:49	01/16/25 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/25 08:49	01/16/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/25 08:49	01/16/25 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/16/25 08:49*	*01/16/25 11:25*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/16/25 08:49*	*01/16/25 11:25*	*1*

Lab Sample ID: LCS 880-100396/1-A
Matrix: Solid
Analysis Batch: 100394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100396

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1018		mg/Kg		102	70 - 130		
Toluene			0.100	0.1036		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.1029		mg/Kg		103	70 - 130		
m,p-Xylenes			0.200	0.2013		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.09827		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-100396/2-A
Matrix: Solid
Analysis Batch: 100394

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100396

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1003		mg/Kg		100	70 - 130	2	35
Toluene			0.100	0.1183		mg/Kg		118	70 - 130	13	35
Ethylbenzene			0.100	0.1359	*+	mg/Kg		136	70 - 130	28	35
m,p-Xylenes			0.200	0.2580		mg/Kg		129	70 - 130	25	35
o-Xylene			0.100	0.1252		mg/Kg		125	70 - 130	24	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*

Lab Sample ID: 880-53142-1 MS
Matrix: Solid
Analysis Batch: 100394

Client Sample ID: S-1 0
Prep Type: Total/NA
Prep Batch: 100396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1021		mg/Kg		102	70 - 130		
Toluene	<0.00200	U	0.100	0.1029		mg/Kg		103	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-53142-1
Project/Site: Chamaeleon SDG: 25-0101-01

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

Lab Sample ID: 880-53142-1 MS **Client Sample ID: S-1 0**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 100394 **Prep Batch: 100396**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U *+	0.100	0.1013		mg/Kg		101	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1970		mg/Kg		99	70 - 130
o-Xylene	<0.00200	U	0.100	0.09606		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-53142-1 MSD **Client Sample ID: S-1 0**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 100394 **Prep Batch: 100396**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09216		mg/Kg		92	70 - 130	10	35
Toluene	<0.00200	U	0.100	0.1057		mg/Kg		106	70 - 130	3	35
Ethylbenzene	<0.00200	U *+	0.100	0.1172		mg/Kg		117	70 - 130	14	35
m,p-Xylenes	<0.00399	U	0.200	0.2274		mg/Kg		114	70 - 130	14	35
o-Xylene	<0.00200	U	0.100	0.1105		mg/Kg		110	70 - 130	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

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

Lab Sample ID: MB 880-100233/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 100200 **Prep Batch: 100233**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/14/25 10:22	01/14/25 16:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/14/25 10:22	01/14/25 16:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/14/25 10:22	01/14/25 16:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*145*	*S1+*	*70 - 130*	*01/14/25 10:22*	*01/14/25 16:11*	*1*
o-Terphenyl (Surr)	*272*	*S1+*	*70 - 130*	*01/14/25 10:22*	*01/14/25 16:11*	*1*

Lab Sample ID: LCS 880-100233/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 100200 **Prep Batch: 100233**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1023		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1076		mg/Kg		108	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

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

Lab Sample ID: LCS 880-100233/2-A
Matrix: Solid
Analysis Batch: 100200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100233

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-100233/3-A
Matrix: Solid
Analysis Batch: 100200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100233

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1029		mg/Kg		103	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1084		mg/Kg		108	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	116		70 - 130

Lab Sample ID: MB 880-100234/1-A
Matrix: Solid
Analysis Batch: 100195

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100234

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/25 10:26	01/14/25 23:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/25 10:26	01/14/25 23:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/25 10:26	01/14/25 23:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130	01/14/25 10:26	01/14/25 23:48	1
o-Terphenyl (Surr)	77		70 - 130	01/14/25 10:26	01/14/25 23:48	1

Lab Sample ID: LCS 880-100234/2-A
Matrix: Solid
Analysis Batch: 100195

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100234

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	872.7		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	844.1		mg/Kg		84	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	83		70 - 130

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-53142-1
Project/Site: Chamaeleon SDG: 25-0101-01

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

Lab Sample ID: LCSD 880-100234/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 100195 **Prep Batch: 100234**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	837.5		mg/Kg		84	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	821.2		mg/Kg		82	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*85*		*70 - 130*
o-Terphenyl (Surr)	*80*		*70 - 130*

Lab Sample ID: 880-53142-2 MS **Client Sample ID: S-1 0.5**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 100195 **Prep Batch: 100234**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	712.1		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	752.5		mg/Kg		76	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*74*		*70 - 130*
o-Terphenyl (Surr)	*67*	*S1-*	*70 - 130*

Lab Sample ID: 880-53142-2 MSD **Client Sample ID: S-1 0.5**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 100195 **Prep Batch: 100234**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	996	645.1	F1	mg/Kg		65	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	725.0		mg/Kg		73	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*73*		*70 - 130*
o-Terphenyl (Surr)	*66*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100419/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 100434

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/16/25 16:05	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-100419/2-A
Matrix: Solid
Analysis Batch: 100434

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	234.5		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-100419/3-A
Matrix: Solid
Analysis Batch: 100434

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	235.1		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-53142-1 MS
Matrix: Solid
Analysis Batch: 100434

Client Sample ID: S-1 0
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	229	F1	252	508.2	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-53142-1 MSD
Matrix: Solid
Analysis Batch: 100434

Client Sample ID: S-1 0
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	229	F1	252	509.4	F1	mg/Kg		111	90 - 110	0	20

Lab Sample ID: 880-53142-11 MS
Matrix: Solid
Analysis Batch: 100434

Client Sample ID: S-6 0
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2840	F1	4970	8764	F1	mg/Kg		119	90 - 110		

Lab Sample ID: 880-53142-11 MSD
Matrix: Solid
Analysis Batch: 100434

Client Sample ID: S-6 0
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2840	F1	4970	8714	F1	mg/Kg		118	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

GC VOA

Analysis Batch: 100394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Total/NA	Solid	8021B	100396
880-53142-2	S-1 0.5	Total/NA	Solid	8021B	100396
880-53142-3	S-2 0	Total/NA	Solid	8021B	100396
880-53142-4	S-2 0.5	Total/NA	Solid	8021B	100396
880-53142-5	S-3 0	Total/NA	Solid	8021B	100396
880-53142-6	S-3 0.5	Total/NA	Solid	8021B	100396
880-53142-7	S-4 0	Total/NA	Solid	8021B	100396
880-53142-8	S-4 0.5	Total/NA	Solid	8021B	100396
880-53142-9	S-5 0	Total/NA	Solid	8021B	100396
880-53142-10	S-5 0.5	Total/NA	Solid	8021B	100396
880-53142-11	S-6 0	Total/NA	Solid	8021B	100396
880-53142-12	S-6 0.5	Total/NA	Solid	8021B	100396
MB 880-100396/5-A	Method Blank	Total/NA	Solid	8021B	100396
LCS 880-100396/1-A	Lab Control Sample	Total/NA	Solid	8021B	100396
LCSD 880-100396/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100396
880-53142-1 MS	S-1 0	Total/NA	Solid	8021B	100396
880-53142-1 MSD	S-1 0	Total/NA	Solid	8021B	100396

Prep Batch: 100396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Total/NA	Solid	5035	
880-53142-2	S-1 0.5	Total/NA	Solid	5035	
880-53142-3	S-2 0	Total/NA	Solid	5035	
880-53142-4	S-2 0.5	Total/NA	Solid	5035	
880-53142-5	S-3 0	Total/NA	Solid	5035	
880-53142-6	S-3 0.5	Total/NA	Solid	5035	
880-53142-7	S-4 0	Total/NA	Solid	5035	
880-53142-8	S-4 0.5	Total/NA	Solid	5035	
880-53142-9	S-5 0	Total/NA	Solid	5035	
880-53142-10	S-5 0.5	Total/NA	Solid	5035	
880-53142-11	S-6 0	Total/NA	Solid	5035	
880-53142-12	S-6 0.5	Total/NA	Solid	5035	
MB 880-100396/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100396/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100396/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-53142-1 MS	S-1 0	Total/NA	Solid	5035	
880-53142-1 MSD	S-1 0	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 100195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-2	S-1 0.5	Total/NA	Solid	8015B NM	100234
880-53142-3	S-2 0	Total/NA	Solid	8015B NM	100234
880-53142-4	S-2 0.5	Total/NA	Solid	8015B NM	100234
880-53142-5	S-3 0	Total/NA	Solid	8015B NM	100234
880-53142-6	S-3 0.5	Total/NA	Solid	8015B NM	100234
880-53142-7	S-4 0	Total/NA	Solid	8015B NM	100234
880-53142-8	S-4 0.5	Total/NA	Solid	8015B NM	100234
880-53142-9	S-5 0	Total/NA	Solid	8015B NM	100234
880-53142-10	S-5 0.5	Total/NA	Solid	8015B NM	100234

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-53142-1
Project/Site: Chamaeleon SDG: 25-0101-01

GC Semi VOA (Continued)

Analysis Batch: 100195 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-11	S-6 0	Total/NA	Solid	8015B NM	100234
880-53142-12	S-6 0.5	Total/NA	Solid	8015B NM	100234
MB 880-100234/1-A	Method Blank	Total/NA	Solid	8015B NM	100234
LCS 880-100234/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100234
LCSD 880-100234/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100234
880-53142-2 MS	S-1 0.5	Total/NA	Solid	8015B NM	100234
880-53142-2 MSD	S-1 0.5	Total/NA	Solid	8015B NM	100234

Analysis Batch: 100200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Total/NA	Solid	8015B NM	100233
MB 880-100233/1-A	Method Blank	Total/NA	Solid	8015B NM	100233
LCS 880-100233/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100233
LCSD 880-100233/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100233

Prep Batch: 100233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Total/NA	Solid	8015NM Prep	
MB 880-100233/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100233/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100233/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 100234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-2	S-1 0.5	Total/NA	Solid	8015NM Prep	
880-53142-3	S-2 0	Total/NA	Solid	8015NM Prep	
880-53142-4	S-2 0.5	Total/NA	Solid	8015NM Prep	
880-53142-5	S-3 0	Total/NA	Solid	8015NM Prep	
880-53142-6	S-3 0.5	Total/NA	Solid	8015NM Prep	
880-53142-7	S-4 0	Total/NA	Solid	8015NM Prep	
880-53142-8	S-4 0.5	Total/NA	Solid	8015NM Prep	
880-53142-9	S-5 0	Total/NA	Solid	8015NM Prep	
880-53142-10	S-5 0.5	Total/NA	Solid	8015NM Prep	
880-53142-11	S-6 0	Total/NA	Solid	8015NM Prep	
880-53142-12	S-6 0.5	Total/NA	Solid	8015NM Prep	
MB 880-100234/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100234/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100234/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53142-2 MS	S-1 0.5	Total/NA	Solid	8015NM Prep	
880-53142-2 MSD	S-1 0.5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Total/NA	Solid	8015 NM	
880-53142-2	S-1 0.5	Total/NA	Solid	8015 NM	
880-53142-3	S-2 0	Total/NA	Solid	8015 NM	
880-53142-4	S-2 0.5	Total/NA	Solid	8015 NM	
880-53142-5	S-3 0	Total/NA	Solid	8015 NM	
880-53142-6	S-3 0.5	Total/NA	Solid	8015 NM	
880-53142-7	S-4 0	Total/NA	Solid	8015 NM	
880-53142-8	S-4 0.5	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-53142-1
Project/Site: Chamaeleon SDG: 25-0101-01

GC Semi VOA (Continued)

Analysis Batch: 100305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-9	S-5 0	Total/NA	Solid	8015 NM	
880-53142-10	S-5 0.5	Total/NA	Solid	8015 NM	
880-53142-11	S-6 0	Total/NA	Solid	8015 NM	
880-53142-12	S-6 0.5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 100419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Soluble	Solid	DI Leach	
880-53142-2	S-1 0.5	Soluble	Solid	DI Leach	
880-53142-3	S-2 0	Soluble	Solid	DI Leach	
880-53142-4	S-2 0.5	Soluble	Solid	DI Leach	
880-53142-5	S-3 0	Soluble	Solid	DI Leach	
880-53142-6	S-3 0.5	Soluble	Solid	DI Leach	
880-53142-7	S-4 0	Soluble	Solid	DI Leach	
880-53142-8	S-4 0.5	Soluble	Solid	DI Leach	
880-53142-9	S-5 0	Soluble	Solid	DI Leach	
880-53142-10	S-5 0.5	Soluble	Solid	DI Leach	
880-53142-11	S-6 0	Soluble	Solid	DI Leach	
880-53142-12	S-6 0.5	Soluble	Solid	DI Leach	
MB 880-100419/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100419/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100419/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53142-1 MS	S-1 0	Soluble	Solid	DI Leach	
880-53142-1 MSD	S-1 0	Soluble	Solid	DI Leach	
880-53142-11 MS	S-6 0	Soluble	Solid	DI Leach	
880-53142-11 MSD	S-6 0	Soluble	Solid	DI Leach	

Analysis Batch: 100434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53142-1	S-1 0	Soluble	Solid	300.0	100419
880-53142-2	S-1 0.5	Soluble	Solid	300.0	100419
880-53142-3	S-2 0	Soluble	Solid	300.0	100419
880-53142-4	S-2 0.5	Soluble	Solid	300.0	100419
880-53142-5	S-3 0	Soluble	Solid	300.0	100419
880-53142-6	S-3 0.5	Soluble	Solid	300.0	100419
880-53142-7	S-4 0	Soluble	Solid	300.0	100419
880-53142-8	S-4 0.5	Soluble	Solid	300.0	100419
880-53142-9	S-5 0	Soluble	Solid	300.0	100419
880-53142-10	S-5 0.5	Soluble	Solid	300.0	100419
880-53142-11	S-6 0	Soluble	Solid	300.0	100419
880-53142-12	S-6 0.5	Soluble	Solid	300.0	100419
MB 880-100419/1-A	Method Blank	Soluble	Solid	300.0	100419
LCS 880-100419/2-A	Lab Control Sample	Soluble	Solid	300.0	100419
LCSD 880-100419/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100419
880-53142-1 MS	S-1 0	Soluble	Solid	300.0	100419
880-53142-1 MSD	S-1 0	Soluble	Solid	300.0	100419
880-53142-11 MS	S-6 0	Soluble	Solid	300.0	100419
880-53142-11 MSD	S-6 0	Soluble	Solid	300.0	100419

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-1 0

Date Collected: 01/13/25 11:37
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-1
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	5035			5.01 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 11:46	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/14/25 22:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100233	01/14/25 10:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100200	01/14/25 22:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 16:23	CH	EET MID

Client Sample ID: S-1 0.5

Date Collected: 01/13/25 11:42
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-2
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	5035			4.98 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 12:07	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 00:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 00:31	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 16:41	CH	EET MID

Client Sample ID: S-2 0

Date Collected: 01/13/25 11:45
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 12:27	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 01:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 01:16	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 16:47	CH	EET MID

Client Sample ID: S-2 0.5

Date Collected: 01/13/25 11:47
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 12:48	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 01:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 01:30	TKC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-2 0.5
Date Collected: 01/13/25 11:47
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-4
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			4.99 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 16:53	CH	EET MID

Client Sample ID: S-3 0
Date Collected: 01/13/25 11:50
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 13:08	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 01:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 01:45	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 16:59	CH	EET MID

Client Sample ID: S-3 0.5
Date Collected: 01/13/25 11:52
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 13:29	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 02:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 02:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 17:16	CH	EET MID

Client Sample ID: S-4 0
Date Collected: 01/13/25 11:54
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 13:49	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 02:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 02:14	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 17:22	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-4 0.5
Date Collected: 01/13/25 11:56
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 14:10	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 02:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 02:29	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 17:28	CH	EET MID

Client Sample ID: S-5 0
Date Collected: 01/13/25 11:59
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 14:30	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 02:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 02:43	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100434	01/16/25 17:34	CH	EET MID

Client Sample ID: S-5 0.5
Date Collected: 01/13/25 12:02
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 16:14	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 02:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 02:58	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100434	01/16/25 17:40	CH	EET MID

Client Sample ID: S-6 0
Date Collected: 01/13/25 12:07
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 16:35	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 03:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 03:12	TKC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Client Sample ID: S-6 0

Date Collected: 01/13/25 12:07
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-11

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			5.03 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	100434	01/16/25 17:46	CH	EET MID

Client Sample ID: S-6 0.5

Date Collected: 01/13/25 12:09
Date Received: 01/14/25 09:20

Lab Sample ID: 880-53142-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100396	01/16/25 08:49	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100394	01/16/25 16:55	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100305	01/15/25 03:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100234	01/14/25 10:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100195	01/15/25 03:27	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100419	01/16/25 09:53	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100434	01/16/25 18:03	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System 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: Larson & Associates, Inc.
Project/Site: Chamaeleon

Job ID: 880-53142-1
SDG: 25-0101-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53142-1	S-1 0	Solid	01/13/25 11:37	01/14/25 09:20
880-53142-2	S-1 0.5	Solid	01/13/25 11:42	01/14/25 09:20
880-53142-3	S-2 0	Solid	01/13/25 11:45	01/14/25 09:20
880-53142-4	S-2 0.5	Solid	01/13/25 11:47	01/14/25 09:20
880-53142-5	S-3 0	Solid	01/13/25 11:50	01/14/25 09:20
880-53142-6	S-3 0.5	Solid	01/13/25 11:52	01/14/25 09:20
880-53142-7	S-4 0	Solid	01/13/25 11:54	01/14/25 09:20
880-53142-8	S-4 0.5	Solid	01/13/25 11:56	01/14/25 09:20
880-53142-9	S-5 0	Solid	01/13/25 11:59	01/14/25 09:20
880-53142-10	S-5 0.5	Solid	01/13/25 12:02	01/14/25 09:20
880-53142-11	S-6 0	Solid	01/13/25 12:07	01/14/25 09:20
880-53142-12	S-6 0.5	Solid	01/13/25 12:09	01/14/25 09:20

No. 3189

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
...N. Marienfield, Ste. 202
Midland, TX 79701
432-687-0901

DATE: 1/14/2025 PAGE 1 OF 1

PO#: LAB WORK ORDER#: 53142

PROJECT LOCATION OR NAME: CHAMAELEON

LAI PROJECT #: 25-0101-01 COLLECTOR: DSG/KR

Data Reported to: DANIEL St. GERMAIN / MARK LARSON

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT / NM

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-1 0		1/13/25	11:37	S	1				X		X		X	X	X															X		
S-1 0.5			11:42																													
S-2 0			11:45																													
S-2 0.5			11:47																													
S-3 0			11:50																													
S-3 0.5			11:52																													
S-4 0			11:54																													
S-4 0.5			11:56																													
S-5 0			11:59																													
S-5 0.5			12:02																													
S-6 0			12:07																													
S-6 0.5			12:09																													

TOTAL 12

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
	1-14-25	926
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: EUROFINS

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 0.8/0.7 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-53142-1
SDG Number: 25-0101-01

Login Number: 53142
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 427961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2500852292**
Incident Name	**NAPP2500852292 CHAMAELEON BIN STATE COM BATTERY @ 0**
Incident Type	**Fire**
Incident Status	**Remediation Plan Approved**
Incident Facility	**[fAPP2131330137] Chamaeleon BIN State Com Battery**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CHAMAELEON BIN STATE COM BATTERY
Date Release Discovered	12/29/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure | Other (Specify) | Crude Oil | Released: 0 BBL | Recovered: 0 BBL | Lost: 0 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Fluid overflowed and exited out of the flare.

Sante Fe Main Office
Phone: (505) 476-3441

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https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 427961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(2) an unauthorized release of a volume that:** **(a) results in a fire or is the result of a fire.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 02/04/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 427961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission		Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 Cl B)	2840
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	2020
GRO+DRO	(EPA SW-846 Method 8015M)	2020
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence		03/15/2025
On what date will (or did) the final sampling or liner inspection occur		04/01/2025
On what date will (or was) the remediation complete(d)		04/15/2025
What is the estimated surface area (in square feet) that will be reclaimed		0
What is the estimated volume (in cubic yards) that will be reclaimed		0
What is the estimated surface area (in square feet) that will be remediated		200
What is the estimated volume (in cubic yards) that will be remediated		25
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 427961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	No
OR is the **off-site** disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 02/04/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 427961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 427961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	***{Unavailable.}***

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 427961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. App ID 427947 was approved on 2/18/2025 with the same incident ID and attachment.	2/19/2025