Tracking Number: nAPP2311640670
Revised Closure Report
Produced Water Release
Salado Draw CTB 24
Lea County, New Mexico

Latitude: N 32.023372°
Longitude: W -103.627966°

LAI Project No. 23-0102-04

April 12, 2024

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

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 202
Midland, Texas 79701

Mark J. Larson, P.G.
Certified Professional Geologist #10490

Robert Nelson
Project Manager

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Appendices

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this closure report on behalf of Chevron USA. Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District I for a produced water release at the Salado Draw CTB 24 (Site) located in Unit M (SW/SW), Section 24, Township 26 South, Range 32 East in Lea County New Mexico. The geodetic position is North 32.035531° and West -103.638179°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on April 13, 2023, due to an underground line rupture. Chevron reported that approximately 136.92 barrels (bbls) of produced water were released, with 120 bbls of produced water recovered. The affected area measures approximately 347 square feet. Chevron personnel excavated soil to a depth of approximately five (5) feet below ground surface (bgs) to allow for line repairs to be completed. Approximately 60 cubic yards of impacted material was hauled to the Milestone Environmental Services - Orla Facility. The initial C-141 was submitted to NMOCD District I on April 27, 2023. The release was assigned incident number nAPP2311640670. Appendix A presents the Chevron spill calculation and spill map.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,136 feet above mean sea level (msl).
- The surface topography gradually decreases to the southwest.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes the Site as “Medium Risk” potential.
- The soils are designated as Pyote and Maljamar Fine sands, 0 to 3 percent slopes, consisting of 0 to 30 inches of fine sand, underlain by 30 to 60 inches of fine sandy loam.
- The geology consists of Quaternary-agesand and silt in sheets and locally includes cover sand (USGS).
- Groundwater occurs at a depth greater than 101.5 feet bgs based on depth to groundwater measurements taken 72 hours after installing a boring (SB-01) on April 14, 2020, approximately 0.40 miles from the Site.

Figure 3 presents the soil boring location. Appendix B presents USGS data depicting karst risk potential map. Appendix C presents the boring log.

1.3 Remediation Standards

The following remediation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 2,500 mg/Kg
- Chloride 20,000 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

The release was fully delineated on May 25, 2023. The delineation was reported to the NMOCD in the document titled "*Tracking Number: nAPP2311640670, Delineation Report and Remediation Plan, Salado Draw CTB 24, Produced Water Release, Lea County, New Mexico, June 9, 2023"* and recommended the following remediation:

- Excavate soil an additional one (1) foot from an area measuring approximately 400 square feet encompassing sidewall samples C-3 and C-5.
- LAI personnel will field test concurrently with excavation activities to determine if further excavation is necessary.
- Collect five (5) 5-point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride to confirm concentrations below the NMOCD closure criteria in Table 1 (19.15.29 NMAC) for groundwater occurring at a depth greater than 100 feet bgs.
- Backfill excavation with clean topsoil within the pipeline right of way (ROW) assuming achievement of NMOCD remediation levels.
- Seed backfilled area with BLM Mix #2.
- Prepare report with photographs for submittal to NMOCD District I.

The NMOCD conditionally approved the report and remediation plan on September 19, 2023, and stated "*Remediation plan is approved as written. Chevron has 60 days (November 20, 2023) to submit its appropriate or final closure report".*

3.0 REMEDIATION

On October 9, 2023, Warrior Technologies, LLC (Warrior), under supervision from LAI personnel utilized a hydrovac to excavate an additional one (1) foot encompassing sidewall sample locations C-3 and C-5. Contaminated soil was contained within the hydrovac and approximately fifteen (15) cubic yards was hauled to the Milestone Environmental Services disposal facility northeast of Orla, Texas. LAI personnel collected two (2) samples C-3 and C-5 and delivered them under chain of custody and preservation to the Eurofins – Xenco Laboratories (Xenco) in Midland, Texas. The laboratory analyzed the confirmation soil samples for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B, 8015M, and 300.0E, respectively. The laboratory reported BTEX, TPH, and chloride in both samples below the NMOCD closure criteria.

On October 16, 2023, LAI personnel submitted an excavation backfill notice to the NMOCD. On October 19, 2023. Apeck Construction, LLC (Apeck) backfilled the excavation within the right-of-way (ROW) with clean topsoil. LAI personnel collected one (1) composite soil sample (B-F) of clean topsoil from a nearby burrow pit. Xenco analyzed the sample for BTEX, TPH, and chloride. Benzene, BTEX, and TPH were below

the method reporting limit (RL's) and chloride was less than 600 mg/Kg. On November 1, 2023, LAI personnel seeded the excavation area with BLM Mix #2. Table 1 presents the delineation and confirmation soil sample analytical data summary. Appendix E presents the laboratory reports. Appendix F presents the photographic documentation.

4.0 CLOSURE REQUEST

On February 26, 2024, Chevron received notification from the NMOCD regarding the rejected closure requesting and stated "*Remediation closure denied. Per 19.15.29.12 (D)1(a) NMAC, "The responsible part must verbally notify the appropriate division district office two business days prior to conducting final sampling." Before collecting final confirmation samples, submit a C-141N via epermitting at least two business days prior to collecting samples or they will not be approved for closure. Resubmit closure report to OCD by April 26, 2024."*

On March 4, 2024, LAI on behalf of Chevron emailed Nelson Velez with the NMOCD to obtain clarity regarding the sample notification. The email was subsequently forwarded to Shelly Wells and Mike Bratcher for clarification. LAI and Chevron attempted to establish a meeting with the NMOCD regarding this matter. On April 12, 2024, LAI submitted a follow up email to Ms. Wells regarding the meeting time. Ms. Wells responded to the email stating "You may resubmit the remediation closure reports via the portal however going forward, a C-141N needs to be submitted via permitting portal two business days prior to collecting confirmation samples for each day that you sample. Any updates to submitted C-141N sample notifications should be sent via email to OCD.Enviro@emnrd.nm.gov". Appendix D presents the NMOCD communications.

Chevron requests no further action for nAPP2311640670.

Table

Table 1
Soil Sample Analytical Data Summary
Chevron - Salado Draw CTB 24
Lea County, New Mexico
32° 01' 21.59" N, 103° 38' 00.54" W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/20,000**
S-1	0 - 1	5/25/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	263
S-2	0 - 1	5/25/223	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	76.2
S-3	0 - 1	5/25/223	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	119
S-4	0 - 1	5/25/223	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	436
C-1	5	5/25/223	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	569
C-2	5	5/25/223	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	164
C-3	0 - 5	5/25/223	Excavated	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**3,610**
		10/9/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	196
C-4	0 - 5	5/25/223	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	240
C-5	0 - 5	5/25/223	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**2,680**
		10/9/2023	In-Situ	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	151
B-F	--	10/10/2023	In-Situ	<0.00199	<0.00398	<49.5	<49.5	<49.5	<49.5	89.9

Notes: Analysis performed by Xenco Laboratories in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)
Depth in feet below ground surface (bgs)
mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)
<: denotes concentration less than analytical method reporting limit
Bold and Highlighted exceeds OCD remediation action limits

Figures

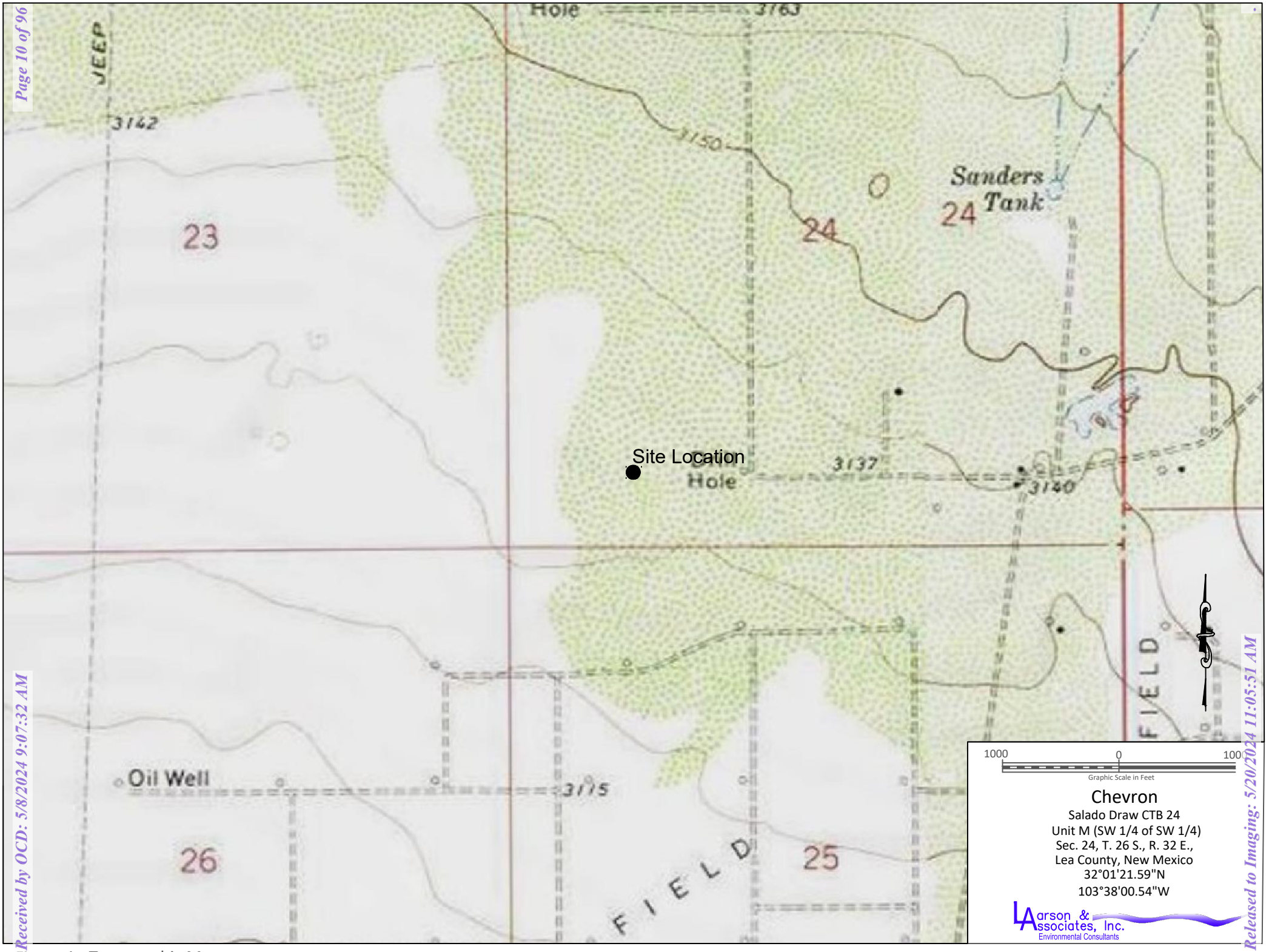


Figure 1 - Topographic Map

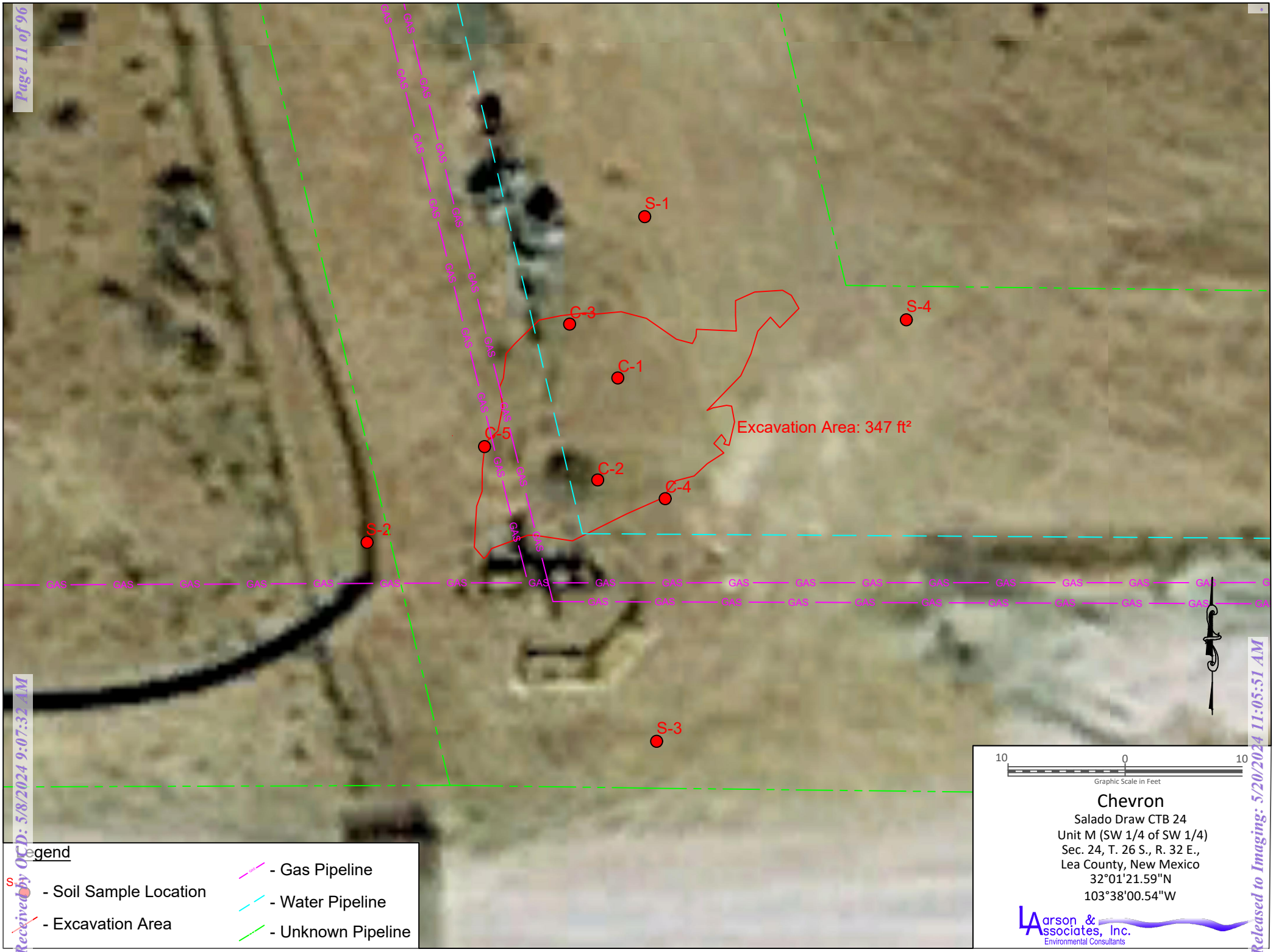


Figure 3- Aerial Map Showing Excavation Area and Delineation/Confirmation Soil Samples

Figure 3- Aerial Map Showing Soil Bore Location

Appendix A

Initial C-141 and Spill Calculation

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2311640670
District RP	
Facility ID	fAPP2131330825
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron U.S.A., Inc.	OGRID: 4323
Contact Name: Catherine Smith	Contact Telephone: 432-967-9487
Contact email: catherinesmith@chevron.com	Incident # nAPP2311640670
Contact mailing address:6301 Deauville Blvd Midland, TX 79706	

Location of Release Source

Latitude: 32.023372 Longitude: -103.627966
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Salado Draw CTB 24	Site Type: Oil
Date Release Discovered: 4/13/2023	API# *(if applicable):*

Unit Letter	Section	Township	Range	County
O	24	26S	32E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
☒ Produced Water	Volume Released (bbls): 136.92	Volume Recovered (bbls): 120
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Underground line rupture.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2311640670
District RP	
Facility ID	fAPP2131330825
Application ID	

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

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

Yes, by Catherine Smith to Mike Bratcher 4/14/2023 by email.

Initial Response

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

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

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

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

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

Printed Name: ____Catherine Smith_____ Title: _Lead Environmental Specialist, Field Support _____

Signature: _____ Date: 4/27/2023_____

email: _____catherinesmith@chevron.com _____ Telephone: ____432-967-9487_____

OCD Only

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2311640670
District RP	
Facility ID	fAPP2131330825
Application ID	

Spill Calculations:

	Horizontal Dimensions			Vertical Dimensions		Calculated Volume		
	Diameter (feet)	Length (feet)	Width (feet)	Abovegrade Depth (feet)	Belowgrade Depth (feet)	Water Cut (%)	Water (ft^3)	Barrels Water
Area 1		150	20	0.25	0.041666667		768.75	136.920525

Appendix B

Karst Risk Potential


Salado Draw CTB 24
Medium

Appendix C

Soil Boring Log

BORING RECORD

Start: 10:35 MDT
Finish: 15:15

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING PPM X	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING
	0	Silty Sand, 5YR 5/4, Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted, Dry	ML			1			5	SOIL : PPM
	5								7	SOIL : PPM
	10	Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted, Dry	Caliche						10	
	15								15	
	20								20	
	25	Silty Sand, 5YR 5/4, Reddish Brown, Fine Grained Quartz Sand with Caliche Clasts (~10mm), Poorly Sorted	ML			2			25	
	30					3			30	
	35	Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted with Subangular Clasts (~10mm)	Caliche						35	
	40	Silty Sand, 5YR 6/4, Light Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted with Subangular Caliche Clasts (~10mm)	ML			4			39	
	45								40	
	50								45	
	55								50	
	60								55	
									60	

ONE CONTINUOUS AUGER SAMPLER
STANDARD PENETRATION TEST
UNDISTURBED SAMPLE
WATER TABLE (24 HRS)
WATER TABLE (TIME OF BORING)
LABORATORY TEST LOCATION
PENETROMETER (TONS/ SQ. FT)
NR NO RECOVERY

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-14-2020

BORING NUMBER : SB-01

JOB NUMBER : Chevron/ 19-0180-01
HOLE DIAMETER : 2"
LOCATION : Salado Draw 24 CTB 32.0250583°, -103.6342389°
LAI GEOLOGIST : E. Chavez
DRILLING CONTRACTOR : Scarborough
DRILLING METHOD : Air Rotary

BORING RECORD

Start: 10:35 MDT
Finish: 15:15

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING PPM X (2 4 6 8 10 12 14 16 18)	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING
	65	Silty Sand, 5YR 5/6, Yellowish Red, Very Fine Grained, Poorly Sorted with Subangular Caliche and Black Chert Clasts (~0.5mm)	ML			5			66	SOIL : PPM SOIL : PPM
	70								70	
	75								75	
	80								80	
	85								85	
	90	Silty Sand, 5YR 4/6, Yellowish Red, Fine Grained, Poorly Sorted with Subangular Caliche (~2mm)	ML						90	
	95								95	
	100	TD:101.5' *Dry After 72 Hours*				6			100 101.5	
	105								105	

ONE CONTINUOUS AUGER SAMPLER
STANDARD PENETRATION TEST
UNDISTURBED SAMPLE
WATER TABLE (24 HRS)
WATER TABLE (TIME OF BORING)
L LABORATORY TEST LOCATION
\+ PENETROMETER (TONS/ SQ. FT)
NR NO RECOVERY

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-14-2020

BORING NUMBER : SB-01

JOB NUMBER : Chevron/ 19-0180-01
HOLE DIAMETER : 2"
LOCATION : Salado Draw 24 CTB 32.0250583°, -103.6342389°
LAI GEOLOGIST : E. Chavez
DRILLING CONTRACTOR : Scarborough
DRILLING METHOD : Air Rotary

Appendix D

NMOCD Communications

From: Barnhill, Amy
To: Robert Nelson
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 231230
Date: Thursday, September 21, 2023 10:58:47 AM

SD 24 CTB

Thank you,
Amy

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, September 19, 2023 11:43 AM
To: Barnhill, Amy <ABarnhill@chevron.com>
Subject: [**EXTERNAL**] The Oil Conservation Division (OCD) has approved the application, Application ID: 231230

To whom it may concern (c/o Amy Barnhill for CHEVRON U S A INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2311640670, with the following conditions:

- **Remediation plan is approved as written. Chevron has 60-days (November 20, 2023) to submit its appropriate or final closure report.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Nelson Velez
Environmental Specialist - Advanced
505-469-6146
Nelson.Velez@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Robert Nelson

From: Robert Nelson
Sent: Monday, October 16, 2023 8:13 PM
To: Hamlet, Robert, EMNRD
Cc: Barnhill, Amy D.; Mark Larson
Subject: Salado Draw 24 CTB (nAPP2311640670) Excavation Backfill Notice
Attachments: Table 1 Delineation Soil Sample Analytical Data Summary - Salado Draw CTB 24.pdf; Figure 4 - Aerial Map Showing Proposed Excavation with Pipelines.pdf

Hello Mr. Hamlet,

Larson & Associates, Inc. (LAI), on behalf of Chevron USA, submits the attached confirmation (post remediation) laboratory analysis data and sample location map to the New Mexico Oil Conservation Division (OCD) District I to provide two (2) business days notification prior to backfilling the excavation at the Salado Draw 24 CTB (nAPP2311640670) in Lea County, New Mexico. Please feel free to contact Amy Barnhill with Chevron at ABarnhill@Chevron.com, Mark Larson at (432) 687-0901 or mark@laenvironmental.com, or me with any questions or concerns.

Thank you,

Robert Nelson
Project Manager
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com
Larson & Associates, Inc.
Environmental Consultants

From: Barnhill, Amy
To: Robert Nelson
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 289282
Date: Tuesday, February 27, 2024 10:35:23 AM

SD 24 CTB…How do we fight this?

Thank you,
Amy

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, February 26, 2024 2:50 PM
To: Barnhill, Amy <ABarnhill@chevron.com>
Subject: [**EXTERNAL**] The Oil Conservation Division (OCD) has rejected the application, Application ID: 289282

To whom it may concern (c/o Amy Barnhill for CHEVRON U S A INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2311640670, for the following reasons:

- **Remediation closure denied. Per 19.15.29.12(D)1(a) NMAC, "The responsible party must verbally notify the appropriate division district office two business days prior to conducting final sampling." Before collecting final confirmation samples, submit a C-141N via epermitting at least two business days prior to collecting samples or they will not be approved for closure. Resubmit closure report to OCD by April 26, 2024.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 289282.
Please review and make the required correction(s) prior to resubmitting.
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: Wells, Shelly, EMNRD
To: Robert Nelson
Cc: Barnhill, Amy D.; Mark Larson; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] OCD Rejected Closure Reports
Date: Friday, April 12, 2024 10:30:58 AM
Attachments: image001.png
image002.png

You don't often get email from shelly.wells@emnrd.nm.gov. Learn why this is important

Good morning Robert,

You may resubmit the remediation closure reports via the portal however going forward a C-141N needs to be submitted via the permitting portal two business days prior to collecting confirmation samples for each day that you sample. Any updates to submitted C-141N sampling notifications should be sent via email to OCD.Enviro@emnrd.nm.gov

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Robert Nelson <rnelson@laenvironmental.com>
Sent: Friday, April 12, 2024 9:20 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] OCD Rejected Closure Reports

Hello Shelly,

I'm following up on the email below (March 5, 2024) regarding a meeting to discuss the OCD rejected closure reports referenced below. Please let us know what timeframe works best with you?

Thank you,

Robert Nelson
Project Manager
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com

Larson & Associates, Inc.
Environmental Consultants

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, March 5, 2024 12:57 PM
To: Robert Nelson <rnelson@laenvironmental.com>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] OCD Rejected Closure Reports

Hi Robert,

We are working on a timeframe for possibly meeting with you next week. Would you please forward copies of the November 6, 2023 (Salado Draw 13 Corridor Line) and October 16, 2023 (Salado Draw CTB 24) emails you refer to in the March 4, 2024 email below?

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Robert Nelson <rnelson@laenvironmental.com>
Sent: Monday, March 4, 2024 3:20 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] OCD Rejected Closure Reports

Hello Shelly,

Would you and Mike Bratcher be available for a conference call via Teams this week or next week to discuss this matter? If so, would you please provide us a date and time when you are available.

Thank you,

Robert Nelson
Project Manager

Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com
LArson & Associates, Inc.
Environmental Consultants

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, March 4, 2024 2:49 PM
To: Robert Nelson <rnelson@laenvironmental.com>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] OCD Rejected Closure Reports

Hi Robert,

As I noted in the rejection, a C-141N should be submitted at least two business days prior to recollecting your closure/confirmation samples and no I was not suggesting back dates. Samples should be recollected and included in a closure report resubmittal. Had you attached two business day notice via OCD.Enviro@emnrd.nm.gov that would have sufficed for the requirement in 19.15.29.12(D)1(a) NMAC.

Regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Monday, March 4, 2024 1:41 PM
To: Robert Nelson <rnelson@laenvironmental.com>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: Re: [EXTERNAL] OCD Rejected Closure Reports

Good afternoon Robert,

Shelly Wells was assigned these two incidents. I've included her and Mike Bratcher within this correspondence. Please direct your inquiries to her in future

communications.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Robert Nelson <rnelson@laenvironmental.com>
Sent: Monday, March 4, 2024 8:32 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>
Subject: [EXTERNAL] OCD Rejected Closure Reports

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

Hello Nelson,

On February 27, 2024, Larson & Associates, Inc. (LAI) received notification from Chevron USA, Inc. (Chevron) that NMOCD denied remediation closure report for the Salado Draw 13 Corridor Line (nAPP2227880032) and Salado Draw CTB 24 (nAPP2311640670) (Sites) in Lea County, New Mexico. The reason for the denials were not providing NMOCD prior to collecting remediation (confirmation) soil samples. The Sites were remediated, and closure reports were submitted to the NMOCD prior to the process update changes for the submission of form C-141 release notification and corrective actions, requiring the operator to submit notice of final confirmation sampling via the NMOCD online portal. LAI submitted notification to the NMOCD via email on November 6, 2023 (Salado Draw 13 Corridor Line) and October 16, 2023 (Salado Draw CTB 24). Please see attached.

Question: Does Chevron need to "back date" sampling notification via the NMOCD online portal and/or how may we proceed with resolving this issue? Please find attached the OCD rejection emails and OCD notifications for the respective Sites. If you have any questions, please feel free to contact Amy Barnhill with Chevron at ABarnhill@Chevron.com, Mark

Larson at (432-687-0901) or mark@laenvironmental.com, or myself. Thank you for taking the time to assist us with this matter.

Respectfully,

Robert Nelson
Project Manager
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com
Larson & Associates, Inc.
Environmental Consultants

Appendix E

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/5/2023 2:30:10 PM

JOB DESCRIPTION

Salado Draw 24 CTB
SDG NUMBER 23-0102-03

JOB NUMBER

880-28878-1

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

Holly Taylor

Generated
6/5/2023 2:30:10 PM

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

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Laboratory Job ID: 880-28878-1
SDG: 23-0102-03

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-28878-1
Project/Site: Salado Draw 24 CTB SDG: 23-0102-03

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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: 880-28878-1
Project/Site: Salado Draw 24 CTB SDG: 23-0102-03

Job ID: 880-28878-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-28878-1

Receipt
The samples were received on 5/30/2023 8:51 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 -11.3°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1, 0-1' (880-28878-1), S-2, 0-1' (880-28878-2), S-3, 0-1' (880-28878-3), S-4, 0-1' (880-28878-4), C-1, 5' (880-28878-5), C-2, 5' (880-28878-6), C-3, 0-5' (880-28878-7), C-4, 0-5' (880-28878-8) and C-5, 0-5' (880-28878-9).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-54618 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-54618/2) and (CCV 880-54618/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-54500 and analytical batch 880-54618 was outside the control limits.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-54500 and analytical batch 880-54618 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-54430 and analytical batch 880-54330 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54464 and analytical batch 880-54516 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Client Sample ID: S-1, 0-1'

Date Collected: 05/25/23 12:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28878-1
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		05/31/23 13:23	06/02/23 18:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:23	06/02/23 18:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:23	06/02/23 18:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/31/23 13:23	06/02/23 18:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:23	06/02/23 18:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/31/23 13:23	06/02/23 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/31/23 13:23*	*06/02/23 18:33*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/31/23 13:23*	*06/02/23 18:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/05/23 12:45	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			05/31/23 13:03	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		05/30/23 16:10	05/30/23 21:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/30/23 16:10	05/30/23 21:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/30/23 16:10	05/30/23 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*05/30/23 16:10*	*05/30/23 21:36*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*05/30/23 16:10*	*05/30/23 21:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**263**	**F1**	4.97		mg/Kg			05/31/23 14:41	1

Client Sample ID: S-2, 0-1'

Date Collected: 05/25/23 12:10
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28878-2
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		05/31/23 13:23	06/02/23 18:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 18:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 18:59	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/31/23 13:23	06/02/23 18:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 18:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/31/23 13:23	06/02/23 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*05/31/23 13:23*	*06/02/23 18:59*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/31/23 13:23*	*06/02/23 18:59*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Client Sample ID: S-2, 0-1'

Date Collected: 05/25/23 12:10
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28878-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/05/23 12:45	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			05/31/23 13:03	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		05/30/23 16:10	05/30/23 21:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/30/23 16:10	05/30/23 21:57	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/30/23 16:10	05/30/23 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*05/30/23 16:10*	*05/30/23 21:57*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*05/30/23 16:10*	*05/30/23 21:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.2**		5.03		mg/Kg			05/31/23 14:57	1

Client Sample ID: S-3, 0-1'

Date Collected: 05/25/23 12:20
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28878-3
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		05/31/23 13:23	06/02/23 19:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 19:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 19:26	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		05/31/23 13:23	06/02/23 19:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 19:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/31/23 13:23	06/02/23 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*05/31/23 13:23*	*06/02/23 19:26*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/31/23 13:23*	*06/02/23 19:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/05/23 12:45	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			05/31/23 13:03	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		05/30/23 16:10	05/30/23 22:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/30/23 16:10	05/30/23 22:19	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Client Sample ID: S-3, 0-1'

Date Collected: 05/25/23 12:20
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28878-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/30/23 16:10	05/30/23 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*05/30/23 16:10*	*05/30/23 22:19*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*05/30/23 16:10*	*05/30/23 22:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		5.02		mg/Kg			05/31/23 15:03	1

Client Sample ID: S-4, 0-1'

Date Collected: 05/25/23 12:30
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28878-4
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		05/31/23 13:23	06/02/23 19:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:23	06/02/23 19:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:23	06/02/23 19:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/31/23 13:23	06/02/23 19:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:23	06/02/23 19:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/31/23 13:23	06/02/23 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/31/23 13:23*	*06/02/23 19:52*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/31/23 13:23*	*06/02/23 19:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/05/23 12:45	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			05/31/23 13:03	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		05/30/23 16:10	05/30/23 22:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/30/23 16:10	05/30/23 22:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/30/23 16:10	05/30/23 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*05/30/23 16:10*	*05/30/23 22:41*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*05/30/23 16:10*	*05/30/23 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**436**		4.97		mg/Kg			05/31/23 15:08	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Client Sample ID: C-1, 5'

Date Collected: 05/25/23 12:40
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28878-5
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		05/31/23 13:23	06/02/23 20:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:23	06/02/23 20:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:23	06/02/23 20:18	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/31/23 13:23	06/02/23 20:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:23	06/02/23 20:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/31/23 13:23	06/02/23 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/31/23 13:23*	*06/02/23 20:18*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/31/23 13:23*	*06/02/23 20:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/05/23 12:45	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			05/31/23 13:03	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		05/30/23 16:10	05/30/23 23:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/30/23 16:10	05/30/23 23:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/30/23 16:10	05/30/23 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*05/30/23 16:10*	*05/30/23 23:24*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*05/30/23 16:10*	*05/30/23 23:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**569**		5.01		mg/Kg			05/31/23 15:13	1

Client Sample ID: C-2, 5'

Date Collected: 05/25/23 12:50
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28878-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198		mg/Kg		05/31/23 13:23	06/02/23 20:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/31/23 13:23	06/02/23 20:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/31/23 13:23	06/02/23 20:45	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		05/31/23 13:23	06/02/23 20:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/31/23 13:23	06/02/23 20:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/31/23 13:23	06/02/23 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/31/23 13:23*	*06/02/23 20:45*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/31/23 13:23*	*06/02/23 20:45*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Client Sample ID: C-2, 5'

Date Collected: 05/25/23 12:50
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28878-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/05/23 12:45	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			05/31/23 13:03	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		05/30/23 16:10	05/30/23 23:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/30/23 16:10	05/30/23 23:46	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/30/23 16:10	05/30/23 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*05/30/23 16:10*	*05/30/23 23:46*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*05/30/23 16:10*	*05/30/23 23:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**164**		4.95		mg/Kg			05/31/23 16:18	1

Client Sample ID: C-3, 0-5'

Date Collected: 05/25/23 13:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28878-7
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		05/31/23 13:23	06/02/23 21:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/31/23 13:23	06/02/23 21:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/31/23 13:23	06/02/23 21:11	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		05/31/23 13:23	06/02/23 21:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/31/23 13:23	06/02/23 21:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/31/23 13:23	06/02/23 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/31/23 13:23*	*06/02/23 21:11*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/31/23 13:23*	*06/02/23 21:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/05/23 12:45	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			05/31/23 13:03	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		05/30/23 16:10	05/31/23 00:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/30/23 16:10	05/31/23 00:08	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Client Sample ID: C-3, 0-5'

Lab Sample ID: 880-28878-7
Matrix: Solid
Date Collected: 05/25/23 13:00
Date Received: 05/30/23 08:51

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/30/23 16:10	05/31/23 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*05/30/23 16:10*	*05/31/23 00:08*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*05/30/23 16:10*	*05/31/23 00:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3610**		24.8		mg/Kg			05/31/23 16:23	5

Client Sample ID: C-4, 0-5'

Lab Sample ID: 880-28878-8
Matrix: Solid
Date Collected: 05/25/23 13:10
Date Received: 05/30/23 08:51

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		05/31/23 13:23	06/02/23 21:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 21:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 21:37	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		05/31/23 13:23	06/02/23 21:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 21:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/31/23 13:23	06/02/23 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/31/23 13:23*	*06/02/23 21:37*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/31/23 13:23*	*06/02/23 21:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/05/23 12:45	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			05/31/23 13:03	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		05/30/23 16:10	05/31/23 00:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/30/23 16:10	05/31/23 00:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/30/23 16:10	05/31/23 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*05/30/23 16:10*	*05/31/23 00:30*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*05/30/23 16:10*	*05/31/23 00:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		5.05		mg/Kg			05/31/23 16:28	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Client Sample ID: C-5, 0-5'
Date Collected: 05/25/23 13:20
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28878-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198		mg/Kg		05/31/23 13:23	06/02/23 22:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/31/23 13:23	06/02/23 22:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/31/23 13:23	06/02/23 22:04	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		05/31/23 13:23	06/02/23 22:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/31/23 13:23	06/02/23 22:04	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/31/23 13:23	06/02/23 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/31/23 13:23*	*06/02/23 22:04*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/31/23 13:23*	*06/02/23 22:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/05/23 12:45	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			05/31/23 13:03	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		05/30/23 16:10	05/31/23 00:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/30/23 16:10	05/31/23 00:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/30/23 16:10	05/31/23 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*05/30/23 16:10*	*05/31/23 00:51*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*05/30/23 16:10*	*05/31/23 00:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2680**		25.3		mg/Kg			05/31/23 16:34	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-28878-1	S-1, 0-1'	99	88
880-28878-2	S-2, 0-1'	105	90
880-28878-3	S-3, 0-1'	105	91
880-28878-4	S-4, 0-1'	111	90
880-28878-5	C-1, 5'	115	104
880-28878-6	C-2, 5'	112	96
880-28878-7	C-3, 0-5'	111	92
880-28878-8	C-4, 0-5'	104	98
880-28878-9	C-5, 0-5'	112	99
LCS 880-54500/1-A	Lab Control Sample	95	103
LCSD 880-54500/2-A	Lab Control Sample Dup	97	110
MB 880-54500/5-A	Method Blank	67 S1-	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-28878-1	S-1, 0-1'	113	122
880-28878-2	S-2, 0-1'	113	123
880-28878-3	S-3, 0-1'	113	121
880-28878-4	S-4, 0-1'	97	107
880-28878-5	C-1, 5'	98	108
880-28878-6	C-2, 5'	105	102
880-28878-7	C-3, 0-5'	114	122
880-28878-8	C-4, 0-5'	116	127
880-28878-9	C-5, 0-5'	95	107
LCS 880-54430/2-A	Lab Control Sample	74	83
LCSD 880-54430/3-A	Lab Control Sample Dup	80	90
MB 880-54430/1-A	Method Blank	118	132 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54500/5-A
Matrix: Solid
Analysis Batch: 54618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54500

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 12:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 12:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 12:21	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/31/23 13:23	06/02/23 12:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:23	06/02/23 12:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/31/23 13:23	06/02/23 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*05/31/23 13:23*	*06/02/23 12:21*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/31/23 13:23*	*06/02/23 12:21*	*1*

Lab Sample ID: LCS 880-54500/1-A
Matrix: Solid
Analysis Batch: 54618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54500

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1493	*+	mg/Kg		149	70 - 130		
Toluene			0.100	0.1264		mg/Kg		126	70 - 130		
Ethylbenzene			0.100	0.1114		mg/Kg		111	70 - 130		
m,p-Xylenes			0.200	0.2259		mg/Kg		113	70 - 130		
o-Xylene			0.100	0.1135		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-54500/2-A
Matrix: Solid
Analysis Batch: 54618

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54500

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1559	*+	mg/Kg		156	70 - 130	4	35
Toluene			0.100	0.1270		mg/Kg		127	70 - 130	0	35
Ethylbenzene			0.100	0.1233		mg/Kg		123	70 - 130	10	35
m,p-Xylenes			0.200	0.2419		mg/Kg		121	70 - 130	7	35
o-Xylene			0.100	0.1164		mg/Kg		116	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

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

Lab Sample ID: MB 880-54430/1-A
Matrix: Solid
Analysis Batch: 54330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54430

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		05/30/23 16:10	05/30/23 17:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/30/23 16:10	05/30/23 17:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/30/23 16:10	05/30/23 17:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*05/30/23 16:10*	*05/30/23 17:37*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*05/30/23 16:10*	*05/30/23 17:37*	*1*

Lab Sample ID: LCS 880-54430/2-A
Matrix: Solid
Analysis Batch: 54330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54430

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	871.3		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	764.2		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*74*		*70 - 130*
o-Terphenyl (Surr)	*83*		*70 - 130*

Lab Sample ID: LCSD 880-54430/3-A
Matrix: Solid
Analysis Batch: 54330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54430

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	971.6		mg/Kg		97	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	840.7		mg/Kg		84	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*80*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54464/1-A
Matrix: Solid
Analysis Batch: 54516

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/31/23 14:25	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-54464/2-A
Matrix: Solid
Analysis Batch: 54516

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-54464/3-A
Matrix: Solid
Analysis Batch: 54516

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	250.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-28878-1 MS
Matrix: Solid
Analysis Batch: 54516

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	263	F1	249	481.1	F1	mg/Kg		88	90 - 110

Lab Sample ID: 880-28878-1 MSD
Matrix: Solid
Analysis Batch: 54516

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	263	F1	249	480.7	F1	mg/Kg		88	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

GC VOA

Prep Batch: 54500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28878-1	S-1, 0-1'	Total/NA	Solid	5035	
880-28878-2	S-2, 0-1'	Total/NA	Solid	5035	
880-28878-3	S-3, 0-1'	Total/NA	Solid	5035	
880-28878-4	S-4, 0-1'	Total/NA	Solid	5035	
880-28878-5	C-1, 5'	Total/NA	Solid	5035	
880-28878-6	C-2, 5'	Total/NA	Solid	5035	
880-28878-7	C-3, 0-5'	Total/NA	Solid	5035	
880-28878-8	C-4, 0-5'	Total/NA	Solid	5035	
880-28878-9	C-5, 0-5'	Total/NA	Solid	5035	
MB 880-54500/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54500/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54500/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 54618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28878-1	S-1, 0-1'	Total/NA	Solid	8021B	54500
880-28878-2	S-2, 0-1'	Total/NA	Solid	8021B	54500
880-28878-3	S-3, 0-1'	Total/NA	Solid	8021B	54500
880-28878-4	S-4, 0-1'	Total/NA	Solid	8021B	54500
880-28878-5	C-1, 5'	Total/NA	Solid	8021B	54500
880-28878-6	C-2, 5'	Total/NA	Solid	8021B	54500
880-28878-7	C-3, 0-5'	Total/NA	Solid	8021B	54500
880-28878-8	C-4, 0-5'	Total/NA	Solid	8021B	54500
880-28878-9	C-5, 0-5'	Total/NA	Solid	8021B	54500
MB 880-54500/5-A	Method Blank	Total/NA	Solid	8021B	54500
LCS 880-54500/1-A	Lab Control Sample	Total/NA	Solid	8021B	54500
LCSD 880-54500/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54500

Analysis Batch: 54757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28878-1	S-1, 0-1'	Total/NA	Solid	Total BTEX	
880-28878-2	S-2, 0-1'	Total/NA	Solid	Total BTEX	
880-28878-3	S-3, 0-1'	Total/NA	Solid	Total BTEX	
880-28878-4	S-4, 0-1'	Total/NA	Solid	Total BTEX	
880-28878-5	C-1, 5'	Total/NA	Solid	Total BTEX	
880-28878-6	C-2, 5'	Total/NA	Solid	Total BTEX	
880-28878-7	C-3, 0-5'	Total/NA	Solid	Total BTEX	
880-28878-8	C-4, 0-5'	Total/NA	Solid	Total BTEX	
880-28878-9	C-5, 0-5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 54330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28878-1	S-1, 0-1'	Total/NA	Solid	8015B NM	54430
880-28878-2	S-2, 0-1'	Total/NA	Solid	8015B NM	54430
880-28878-3	S-3, 0-1'	Total/NA	Solid	8015B NM	54430
880-28878-4	S-4, 0-1'	Total/NA	Solid	8015B NM	54430
880-28878-5	C-1, 5'	Total/NA	Solid	8015B NM	54430
880-28878-6	C-2, 5'	Total/NA	Solid	8015B NM	54430
880-28878-7	C-3, 0-5'	Total/NA	Solid	8015B NM	54430

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

GC Semi VOA (Continued)

Analysis Batch: 54330 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28878-8	C-4, 0-5'	Total/NA	Solid	8015B NM	54430
880-28878-9	C-5, 0-5'	Total/NA	Solid	8015B NM	54430
MB 880-54430/1-A	Method Blank	Total/NA	Solid	8015B NM	54430
LCS 880-54430/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54430
LCSD 880-54430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54430

Prep Batch: 54430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28878-1	S-1, 0-1'	Total/NA	Solid	8015NM Prep	
880-28878-2	S-2, 0-1'	Total/NA	Solid	8015NM Prep	
880-28878-3	S-3, 0-1'	Total/NA	Solid	8015NM Prep	
880-28878-4	S-4, 0-1'	Total/NA	Solid	8015NM Prep	
880-28878-5	C-1, 5'	Total/NA	Solid	8015NM Prep	
880-28878-6	C-2, 5'	Total/NA	Solid	8015NM Prep	
880-28878-7	C-3, 0-5'	Total/NA	Solid	8015NM Prep	
880-28878-8	C-4, 0-5'	Total/NA	Solid	8015NM Prep	
880-28878-9	C-5, 0-5'	Total/NA	Solid	8015NM Prep	
MB 880-54430/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54430/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28878-1	S-1, 0-1'	Total/NA	Solid	8015 NM	
880-28878-2	S-2, 0-1'	Total/NA	Solid	8015 NM	
880-28878-3	S-3, 0-1'	Total/NA	Solid	8015 NM	
880-28878-4	S-4, 0-1'	Total/NA	Solid	8015 NM	
880-28878-5	C-1, 5'	Total/NA	Solid	8015 NM	
880-28878-6	C-2, 5'	Total/NA	Solid	8015 NM	
880-28878-7	C-3, 0-5'	Total/NA	Solid	8015 NM	
880-28878-8	C-4, 0-5'	Total/NA	Solid	8015 NM	
880-28878-9	C-5, 0-5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 54464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28878-1	S-1, 0-1'	Soluble	Solid	DI Leach	
880-28878-2	S-2, 0-1'	Soluble	Solid	DI Leach	
880-28878-3	S-3, 0-1'	Soluble	Solid	DI Leach	
880-28878-4	S-4, 0-1'	Soluble	Solid	DI Leach	
880-28878-5	C-1, 5'	Soluble	Solid	DI Leach	
880-28878-6	C-2, 5'	Soluble	Solid	DI Leach	
880-28878-7	C-3, 0-5'	Soluble	Solid	DI Leach	
880-28878-8	C-4, 0-5'	Soluble	Solid	DI Leach	
880-28878-9	C-5, 0-5'	Soluble	Solid	DI Leach	
MB 880-54464/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54464/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54464/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28878-1 MS	S-1, 0-1'	Soluble	Solid	DI Leach	
880-28878-1 MSD	S-1, 0-1'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

HPLC/IC

Analysis Batch: 54516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28878-1	S-1, 0-1'	Soluble	Solid	300.0	54464
880-28878-2	S-2, 0-1'	Soluble	Solid	300.0	54464
880-28878-3	S-3, 0-1'	Soluble	Solid	300.0	54464
880-28878-4	S-4, 0-1'	Soluble	Solid	300.0	54464
880-28878-5	C-1, 5'	Soluble	Solid	300.0	54464
880-28878-6	C-2, 5'	Soluble	Solid	300.0	54464
880-28878-7	C-3, 0-5'	Soluble	Solid	300.0	54464
880-28878-8	C-4, 0-5'	Soluble	Solid	300.0	54464
880-28878-9	C-5, 0-5'	Soluble	Solid	300.0	54464
MB 880-54464/1-A	Method Blank	Soluble	Solid	300.0	54464
LCS 880-54464/2-A	Lab Control Sample	Soluble	Solid	300.0	54464
LCSD 880-54464/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54464
880-28878-1 MS	S-1, 0-1'	Soluble	Solid	300.0	54464
880-28878-1 MSD	S-1, 0-1'	Soluble	Solid	300.0	54464

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Client Sample ID: S-1, 0-1'

Lab Sample ID: 880-28878-1
Matrix: Solid
Date Collected: 05/25/23 12:00
Date Received: 05/30/23 08:51

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	54500	05/31/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54618	06/02/23 18:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54757	06/05/23 12:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			54498	05/31/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54430	05/30/23 16:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54330	05/30/23 21:36	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54464	05/31/23 09:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54516	05/31/23 14:41	CH	EET MID

Client Sample ID: S-2, 0-1'

Lab Sample ID: 880-28878-2
Matrix: Solid
Date Collected: 05/25/23 12:10
Date Received: 05/30/23 08:51

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	54500	05/31/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54618	06/02/23 18:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54757	06/05/23 12:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			54498	05/31/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54430	05/30/23 16:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54330	05/30/23 21:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54464	05/31/23 09:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54516	05/31/23 14:57	CH	EET MID

Client Sample ID: S-3, 0-1'

Lab Sample ID: 880-28878-3
Matrix: Solid
Date Collected: 05/25/23 12:20
Date Received: 05/30/23 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54500	05/31/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54618	06/02/23 19:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54757	06/05/23 12:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			54498	05/31/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54430	05/30/23 16:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54330	05/30/23 22:19	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54464	05/31/23 09:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54516	05/31/23 15:03	CH	EET MID

Client Sample ID: S-4, 0-1'

Lab Sample ID: 880-28878-4
Matrix: Solid
Date Collected: 05/25/23 12:30
Date Received: 05/30/23 08:51

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	54500	05/31/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54618	06/02/23 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54757	06/05/23 12:45	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Client Sample ID: S-4, 0-1'

Lab Sample ID: 880-28878-4
Matrix: Solid
Date Collected: 05/25/23 12:30
Date Received: 05/30/23 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54498	05/31/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54430	05/30/23 16:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54330	05/30/23 22:41	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54464	05/31/23 09:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54516	05/31/23 15:08	CH	EET MID

Client Sample ID: C-1, 5'

Lab Sample ID: 880-28878-5
Matrix: Solid
Date Collected: 05/25/23 12:40
Date Received: 05/30/23 08:51

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	54500	05/31/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54618	06/02/23 20:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54757	06/05/23 12:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			54498	05/31/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54430	05/30/23 16:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54330	05/30/23 23:24	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54464	05/31/23 09:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54516	05/31/23 15:13	CH	EET MID

Client Sample ID: C-2, 5'

Lab Sample ID: 880-28878-6
Matrix: Solid
Date Collected: 05/25/23 12:50
Date Received: 05/30/23 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54500	05/31/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54618	06/02/23 20:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54757	06/05/23 12:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			54498	05/31/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54430	05/30/23 16:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54330	05/30/23 23:46	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54464	05/31/23 09:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54516	05/31/23 16:18	CH	EET MID

Client Sample ID: C-3, 0-5'

Lab Sample ID: 880-28878-7
Matrix: Solid
Date Collected: 05/25/23 13:00
Date Received: 05/30/23 08:51

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	54500	05/31/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54618	06/02/23 21:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54757	06/05/23 12:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			54498	05/31/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54430	05/30/23 16:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54330	05/31/23 00:08	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Client Sample ID: C-3, 0-5'

Lab Sample ID: 880-28878-7
Matrix: Solid
Date Collected: 05/25/23 13:00
Date Received: 05/30/23 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	54464	05/31/23 09:41	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54516	05/31/23 16:23	CH	EET MID

Client Sample ID: C-4, 0-5'

Lab Sample ID: 880-28878-8
Matrix: Solid
Date Collected: 05/25/23 13:10
Date Received: 05/30/23 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54500	05/31/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54618	06/02/23 21:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54757	06/05/23 12:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			54498	05/31/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54430	05/30/23 16:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54330	05/31/23 00:30	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54464	05/31/23 09:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54516	05/31/23 16:28	CH	EET MID

Client Sample ID: C-5, 0-5'

Lab Sample ID: 880-28878-9
Matrix: Solid
Date Collected: 05/25/23 13:20
Date Received: 05/30/23 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54500	05/31/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54618	06/02/23 22:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54757	06/05/23 12:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			54498	05/31/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54430	05/30/23 16:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54330	05/31/23 00:51	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54464	05/31/23 09:41	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54516	05/31/23 16:34	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: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

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	T104704400-22-25	06-30-23

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

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

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

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: Salado Draw 24 CTB

Job ID: 880-28878-1
SDG: 23-0102-03

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28878-1	S-1, 0-1'	Solid	05/25/23 12:00	05/30/23 08:51
880-28878-2	S-2, 0-1'	Solid	05/25/23 12:10	05/30/23 08:51
880-28878-3	S-3, 0-1'	Solid	05/25/23 12:20	05/30/23 08:51
880-28878-4	S-4, 0-1'	Solid	05/25/23 12:30	05/30/23 08:51
880-28878-5	C-1, 5'	Solid	05/25/23 12:40	05/30/23 08:51
880-28878-6	C-2, 5'	Solid	05/25/23 12:50	05/30/23 08:51
880-28878-7	C-3, 0-5'	Solid	05/25/23 13:00	05/30/23 08:51
880-28878-8	C-4, 0-5'	Solid	05/25/23 13:10	05/30/23 08:51
880-28878-9	C-5, 0-5'	Solid	05/25/23 13:20	05/30/23 08:51

198878 No. 3079

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 5-26-23 PAGE 1 OF 1
PO# LAB WORK ORDER#
PROJECT LOCATION OR NAME Salado Draw 24 CTB
LAI PROJECT # 23-0102-03 COLLECTOR KG

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 ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-1, 0-1'		5/25/23	1200	S	1				Y		X		X	X	X													X	202
S-2, 0-1'			1210																										
S-3, 0-1'			1220																										
S-4, 0-1'			1230																										
C-1, 5'			1240																										
C-2, 5'			1250																										
C-3, 0-5'			1300																										
C-4, 0-5'			1310																										
C-5, 0-5'			1320																										
TOTAL																													

880-28878 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	5/30/23 0851	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
LABORATORY Xenco		

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

LABORATORY USE ONLY:
RECEIVING TEMP -11/-11.3 THERM# IR8-36
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-28878-1
SDG Number: 23-0102-03

Login Number: 28878
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/16/2023 2:19:24 PM

JOB DESCRIPTION

5D CTB 24
SDG NUMBER 23-0102-03

JOB NUMBER

890-5436-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

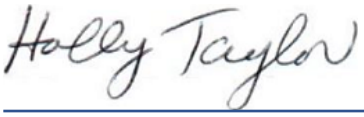
Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Laboratory Job ID: 890-5436-1
SDG: 23-0102-03

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 890-5436-1
Project/Site: 5D CTB 24 SDG: 23-0102-03

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

Job ID: 890-5436-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5436-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 10/11/2023 8:00 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 7.2°C

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): B-F (890-5436-3). The container labels list B-F, while the COC lists nothing. The lab used the ID on the container.

The following samples were received and analyzed from an unpreserved bulk soil jar: C-3 (890-5436-1), C-5 (890-5436-2) and B-F (890-5436-3).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-64629 and analytical batch 880-64616 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-3 (890-5436-1), C-5 (890-5436-2) and B-F (890-5436-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64616/21), (CCV 880-64616/32) and (CCV 880-64616/8). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-64629 and analytical batch 880-64616 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-64629 and analytical batch 880-64616 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

Client Sample ID: C-3

Date Collected: 10/09/23 02:15
Date Received: 10/11/23 08:00
Sample Depth: 0'-5'

Lab Sample ID: 890-5436-1

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		10/11/23 16:59	10/12/23 18:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/23 16:59	10/12/23 18:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/23 16:59	10/12/23 18:47	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		10/11/23 16:59	10/12/23 18:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/23 16:59	10/12/23 18:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/23 16:59	10/12/23 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*10/11/23 16:59*	*10/12/23 18:47*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*10/11/23 16:59*	*10/12/23 18:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/12/23 18:47	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			10/13/23 23:13	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 *1	49.9		mg/Kg		10/13/23 08:50	10/13/23 23:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		10/13/23 08:50	10/13/23 23:13	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/23 08:50	10/13/23 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*160*	*S1+*	*70 - 130*	*10/13/23 08:50*	*10/13/23 23:13*	*1*
o-Terphenyl (Surr)	*148*	*S1+*	*70 - 130*	*10/13/23 08:50*	*10/13/23 23:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**196**		4.95		mg/Kg			10/13/23 16:47	1

Client Sample ID: C-5

Date Collected: 10/09/23 02:40
Date Received: 10/11/23 08:00
Sample Depth: 0'-5'

Lab Sample ID: 890-5436-2

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		10/11/23 16:59	10/12/23 19:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 19:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 19:07	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		10/11/23 16:59	10/12/23 19:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/23 16:59	10/12/23 19:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/11/23 16:59	10/12/23 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*10/11/23 16:59*	*10/12/23 19:07*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

Client Sample ID: C-5

Lab Sample ID: 890-5436-2
Matrix: Solid
Date Collected: 10/09/23 02:40
Date Received: 10/11/23 08:00
Sample Depth: 0'-5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*10/11/23 16:59*	*10/12/23 19:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/12/23 19:07	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			10/13/23 23:34	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 *1	49.7	mg/Kg		10/13/23 08:50	10/13/23 23:34	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7	mg/Kg		10/13/23 08:50	10/13/23 23:34	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		10/13/23 08:50	10/13/23 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*163*	*S1+*	*70 - 130*	*10/13/23 08:50*	*10/13/23 23:34*	*1*
o-Terphenyl (Surr)	*147*	*S1+*	*70 - 130*	*10/13/23 08:50*	*10/13/23 23:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**151**		4.95	mg/Kg			10/13/23 16:52	1

Client Sample ID: B-F

Lab Sample ID: 890-5436-3
Matrix: Solid
Date Collected: 10/10/23 10:30
Date Received: 10/11/23 08:00

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		10/11/23 16:59	10/12/23 19:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/11/23 16:59	10/12/23 19:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/11/23 16:59	10/12/23 19:28	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		10/11/23 16:59	10/12/23 19:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/11/23 16:59	10/12/23 19:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/11/23 16:59	10/12/23 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/11/23 16:59*	*10/12/23 19:28*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*10/11/23 16:59*	*10/12/23 19:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/12/23 19:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5	mg/Kg			10/13/23 23:55	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

Client Sample ID: B-F

Date Collected: 10/10/23 10:30
Date Received: 10/11/23 08:00

Lab Sample ID: 890-5436-3

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	<49.5	U *1	49.5		mg/Kg		10/13/23 08:50	10/13/23 23:55	1
Diesel Range Organics (Over C10-C28)	<49.5	U *1	49.5		mg/Kg		10/13/23 08:50	10/13/23 23:55	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		10/13/23 08:50	10/13/23 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*163*	*S1+*	*70 - 130*	*10/13/23 08:50*	*10/13/23 23:55*	*1*
o-Terphenyl (Surr)	*144*	*S1+*	*70 - 130*	*10/13/23 08:50*	*10/13/23 23:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.9**		5.04		mg/Kg			10/13/23 16:57	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

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)										
890-5436-1	C-3	101	106										
890-5436-2	C-5	104	111										
890-5436-3	B-F	110	107										
LCS 880-64507/1-A	Lab Control Sample	103	96										
LCSD 880-64507/2-A	Lab Control Sample Dup	116	94										
MB 880-64507/5-A	Method Blank	111	123										

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-5436-1	C-3	160 S1+	148 S1+										
890-5436-2	C-5	163 S1+	147 S1+										
890-5436-3	B-F	163 S1+	144 S1+										
LCS 880-64629/2-A	Lab Control Sample	103	115										
LCSD 880-64629/3-A	Lab Control Sample Dup	105	107										
MB 880-64629/1-A	Method Blank	147 S1+	134 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64507/5-A
Matrix: Solid
Analysis Batch: 64524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64507

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/11/23 16:59	10/12/23 12:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/23 16:59	10/12/23 12:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/23 16:59	10/12/23 12:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/11/23 16:59*	*10/12/23 12:01*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*10/11/23 16:59*	*10/12/23 12:01*	*1*

Lab Sample ID: LCS 880-64507/1-A
Matrix: Solid
Analysis Batch: 64524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64507

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1141		mg/Kg		114	70 - 130		
Toluene			0.100	0.09752		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.1096		mg/Kg		110	70 - 130		
m,p-Xylenes			0.200	0.2067		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.09835		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-64507/2-A
Matrix: Solid
Analysis Batch: 64524

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64507

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1044		mg/Kg		104	70 - 130	9	35
Toluene			0.100	0.09198		mg/Kg		92	70 - 130	6	35
Ethylbenzene			0.100	0.09293		mg/Kg		93	70 - 130	16	35
m,p-Xylenes			0.200	0.1806		mg/Kg		90	70 - 130	13	35
o-Xylene			0.100	0.08517		mg/Kg		85	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

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

Lab Sample ID: MB 880-64629/1-A
Matrix: Solid
Analysis Batch: 64616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64629

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		10/13/23 07:30	10/13/23 09:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/13/23 07:30	10/13/23 09:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/23 07:30	10/13/23 09:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*147*	*S1+*	*70 - 130*	*10/13/23 07:30*	*10/13/23 09:29*	*1*
o-Terphenyl (Surr)	*134*	*S1+*	*70 - 130*	*10/13/23 07:30*	*10/13/23 09:29*	*1*

Lab Sample ID: LCS 880-64629/2-A
Matrix: Solid
Analysis Batch: 64616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64629

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	789.5		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	743.9		mg/Kg		74	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*103*		*70 - 130*
o-Terphenyl (Surr)	*115*		*70 - 130*

Lab Sample ID: LCSD 880-64629/3-A
Matrix: Solid
Analysis Batch: 64616

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64629

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1145	*1	mg/Kg		114	70 - 130	37	20
Diesel Range Organics (Over C10-C28)			1000	1132	*1	mg/Kg		113	70 - 130	41	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*105*		*70 - 130*
o-Terphenyl (Surr)	*107*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64570/1-A
Matrix: Solid
Analysis Batch: 64697

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/13/23 14:30	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-64570/2-A
Matrix: Solid
Analysis Batch: 64697

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	231.1		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-64570/3-A
Matrix: Solid
Analysis Batch: 64697

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	240.6		mg/Kg		96	90 - 110	4	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

GC VOA

Prep Batch: 64507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5436-1	C-3	Total/NA	Solid	5035	
890-5436-2	C-5	Total/NA	Solid	5035	
890-5436-3	B-F	Total/NA	Solid	5035	
MB 880-64507/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64507/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64507/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 64524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5436-1	C-3	Total/NA	Solid	8021B	64507
890-5436-2	C-5	Total/NA	Solid	8021B	64507
890-5436-3	B-F	Total/NA	Solid	8021B	64507
MB 880-64507/5-A	Method Blank	Total/NA	Solid	8021B	64507
LCS 880-64507/1-A	Lab Control Sample	Total/NA	Solid	8021B	64507
LCSD 880-64507/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64507

Analysis Batch: 64671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5436-1	C-3	Total/NA	Solid	Total BTEX	
890-5436-2	C-5	Total/NA	Solid	Total BTEX	
890-5436-3	B-F	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 64616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5436-1	C-3	Total/NA	Solid	8015B NM	64629
890-5436-2	C-5	Total/NA	Solid	8015B NM	64629
890-5436-3	B-F	Total/NA	Solid	8015B NM	64629
MB 880-64629/1-A	Method Blank	Total/NA	Solid	8015B NM	64629
LCS 880-64629/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64629
LCSD 880-64629/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64629

Prep Batch: 64629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5436-1	C-3	Total/NA	Solid	8015NM Prep	
890-5436-2	C-5	Total/NA	Solid	8015NM Prep	
890-5436-3	B-F	Total/NA	Solid	8015NM Prep	
MB 880-64629/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64629/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64629/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5436-1	C-3	Total/NA	Solid	8015 NM	
890-5436-2	C-5	Total/NA	Solid	8015 NM	
890-5436-3	B-F	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

HPLC/IC

Leach Batch: 64570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5436-1	C-3	Soluble	Solid	DI Leach	
890-5436-2	C-5	Soluble	Solid	DI Leach	
890-5436-3	B-F	Soluble	Solid	DI Leach	
MB 880-64570/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64570/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64570/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 64697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5436-1	C-3	Soluble	Solid	300.0	64570
890-5436-2	C-5	Soluble	Solid	300.0	64570
890-5436-3	B-F	Soluble	Solid	300.0	64570
MB 880-64570/1-A	Method Blank	Soluble	Solid	300.0	64570
LCS 880-64570/2-A	Lab Control Sample	Soluble	Solid	300.0	64570
LCSD 880-64570/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64570

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

Client Sample ID: C-3

Lab Sample ID: 890-5436-1
Matrix: Solid
Date Collected: 10/09/23 02:15
Date Received: 10/11/23 08:00

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	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 18:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64671	10/12/23 18:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			64799	10/13/23 23:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 23:13	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	64570	10/12/23 14:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64697	10/13/23 16:47	CH	EET MID

Client Sample ID: C-5

Lab Sample ID: 890-5436-2
Matrix: Solid
Date Collected: 10/09/23 02:40
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 19:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64671	10/12/23 19:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			64799	10/13/23 23:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 23:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	64570	10/12/23 14:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64697	10/13/23 16:52	CH	EET MID

Client Sample ID: B-F

Lab Sample ID: 890-5436-3
Matrix: Solid
Date Collected: 10/10/23 10:30
Date Received: 10/11/23 08:00

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	64507	10/11/23 16:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64524	10/12/23 19:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64671	10/12/23 19:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			64799	10/13/23 23:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	64629	10/13/23 08:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64616	10/13/23 23:55	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64570	10/12/23 14:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64697	10/13/23 16:57	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: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

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	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Larson & Associates, Inc.
Project/Site: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

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: 5D CTB 24

Job ID: 890-5436-1
SDG: 23-0102-03

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5436-1	C-3	Solid	10/09/23 02:15	10/11/23 08:00	0'-5'
890-5436-2	C-5	Solid	10/09/23 02:40	10/11/23 08:00	0'-5'
890-5436-3	B-F	Solid	10/10/23 10:30	10/11/23 08:00	

No. 3202

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 10/11/23 PAGE ___ OF ___
PO#: ___ LAB WORK ORDER#: ___
PROJECT LOCATION OR NAME: SD CTB 24
LAI PROJECT #: 23-0102-03 COLLECTOR: STAN BATES

TRRP report? ☐ Yes ☐ No

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

TIME ZONE:
Time zone/State:

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐	GASOLINE - MOD 8015 ☐ TPH 1006 ☐	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 ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐			FIELD NOTES
C-3 0-5'		10/9/23	2:15	S	1				X		X		X	X	X													X			
C-5 0-5'		10/9/23	2:40	S	1				X		X		X	X	X													X			
		10/10/23	10:30	S					X		X		X	X	X													X			

890-5436 Chain of Custody

TOTAL

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
STAN BATES	10/11/23	
[signature]	10/11/23 8am	

LABORATORY:

TURN AROUND TIME
NORMAL ☐
1 DAY ☐
2 DAY ☐
OTHER ☒ 24hr rush

LABORATORY USE ONLY:
RECEIVING TEMP: 2.4 THERM#: ___
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # ___
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-5436-1
SDG Number: 23-0102-03

Login Number: 5436
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 890-5436-1
SDG Number: 23-0102-03

Login Number: 5436
List Number: 2
Creator: Rodriguez, Leticia

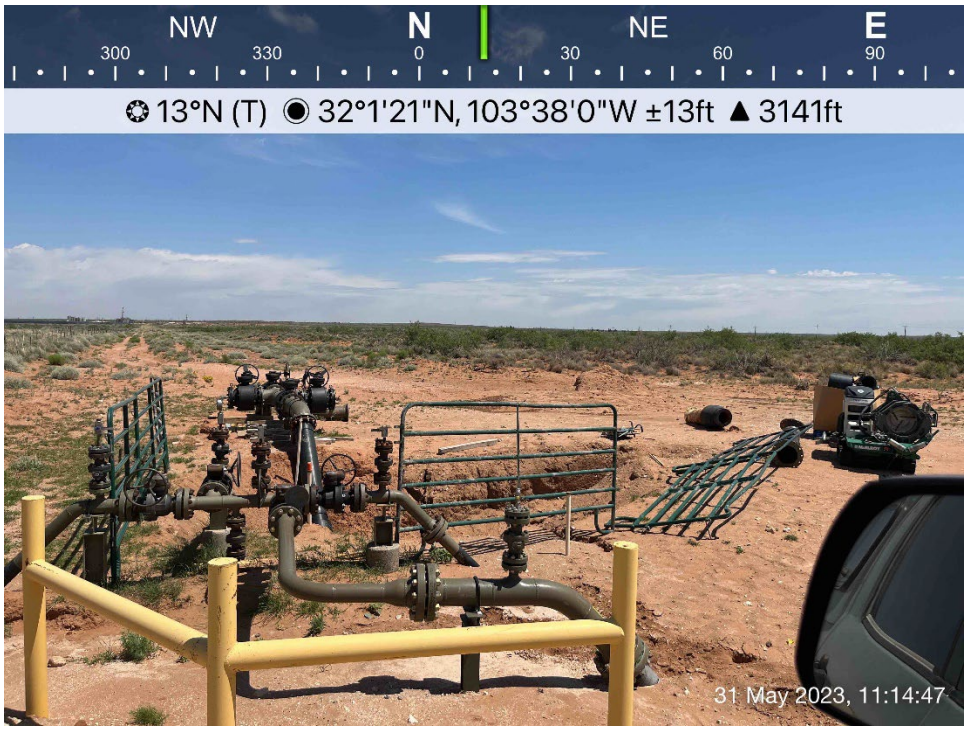
List Source: Eurofins Midland
List Creation: 10/12/23 12:28 PM

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

Appendix F

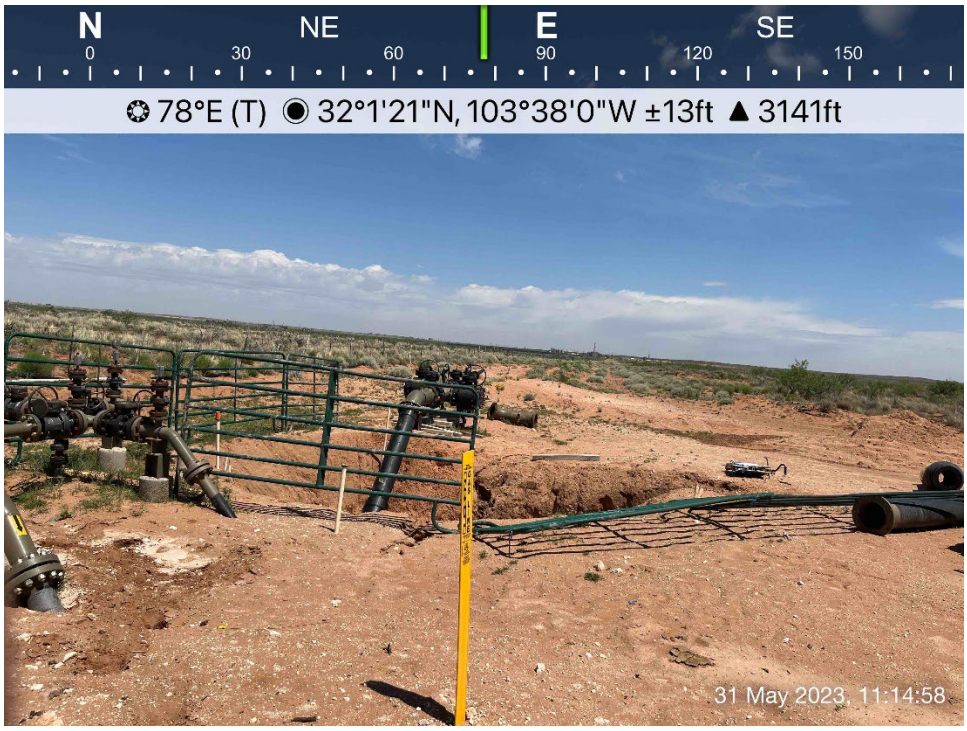
Photographs

Impacted area viewing north, photo taken by Chevron personnel

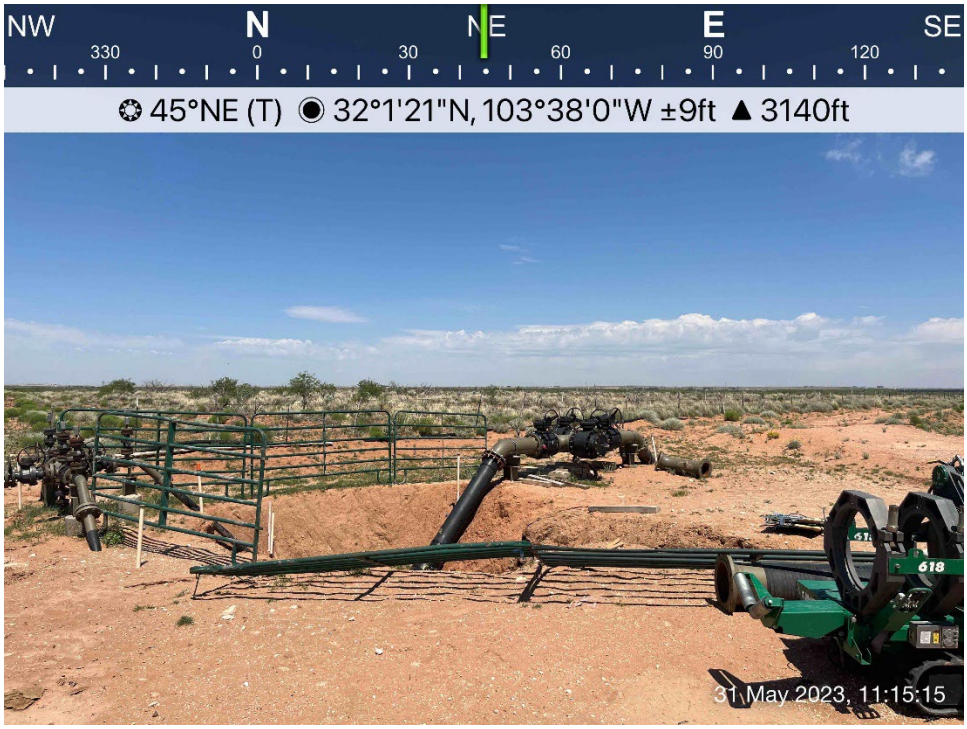


Impacted area viewing north, May 31, 2023

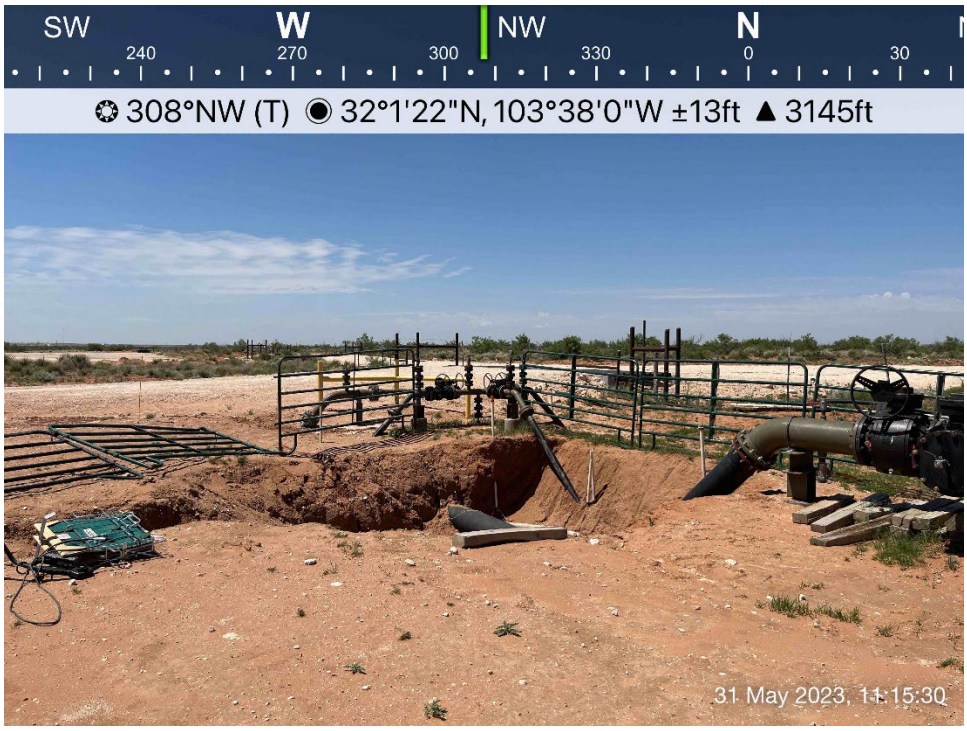
Tracking Number: nAPP2311640670
Closure Report – Produced Water Release
Chevron USA Inc., Salado Draw CTB 24
November 9, 2023



Impacted area viewing east, May 31, 2023



Impacted area viewing northeast, May 31, 2023



Impacted area viewing northwest, May 31, 2023

Additional excavated soil encompassing sample location C-3 and C-5 viewing north, October 20, 2023

Backfilled excavation viewing east, October 20, 2023

Backfilled excavation viewing northwest, October 20, 2023

Backfilled and seeded excavation area viewing northwest, November 6, 2023

Backfilled and seeded excavation area viewing west, November 6, 2023

Backfilled and seeded excavation area viewing southwest, November 6, 2023

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QUESTIONS

Action 341945

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 341945
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2311640670**
Incident Name	**NAPP2311640670 SALADO DRAW CTB 24 @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Reclamation Report Received**
Incident Facility	**[fAPP2131330825] Salado Draw CTB 24**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SALADO DRAW CTB 24
Date Release Discovered	04/13/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Pipeline (Any) | Produced Water | Released: 137 BBL | Recovered: 120 BBL | Lost: 17 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 341945
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
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: 05/08/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 341945
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 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	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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)	3610
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
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	10/09/2023
On what date will (or did) the final sampling or liner inspection occur	10/09/2023
On what date will (or was) the remediation complete(d)	10/09/2023
What is the estimated surface area (in square feet) that will be reclaimed	347
What is the estimated volume (in cubic yards) that will be reclaimed	64
What is the estimated surface area (in square feet) that will be remediated	347
What is the estimated volume (in cubic yards) that will be remediated	64
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: 341945
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	MILESTONE WASTE TREATMENT AND INJECTION FACILITY [fDHR1918357813]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
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: 05/08/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 341945
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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: 341945
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**341964**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**10/09/2023**
What was the (estimated) number of samples that were to be gathered	**64**
What was the sampling surface area in square feet	**347**

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	347
What was the total volume (cubic yards) remediated	64
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	347
What was the total volume (in cubic yards) reclaimed	64
Summarize any additional remediation activities not included by answers (above)	Soil Seeded with BLM Mix #2

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/08/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 341945
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	347
What was the total volume of replacement material (in cubic yards) for this site	64
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	11/01/2023
Summarize any additional reclamation activities not included by answers (above)	Soil seeded with BLM Mix #2
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/08/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 341945
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 341945

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 341945
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2311640670 SALADO DRAW CTB 24, thank you. This Remediation Closure Report is approved.	5/20/2024