



June 18, 2025

New Mexico Oil Conservation Division
506 W. Texas Ave
Artesia, NM 88210

RE: **Seawolf 12 CTB 1 - Closure Request Report**
Incident Number: nAPP2500624157
GPS: 32.053553°, -103.52788°
Lea County, New Mexico
ESRR Project No. 2778/VP-21241

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of Devon Energy (Devon), presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of produced water at Seawolf 12 CTB 1 (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, Devon is requesting No Further Action (NFA) at the Site.

Site Location & Incident Description

The Site is located in Unit N, Section 12, Township 26 South, Range 33 East, in Lea County, New Mexico (32.053553°, -103.52788°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1**).

On December 31, 2024, threads on a piping connection failed, causing the release of approximately 43 barrels (bbl) of produced water within a lined secondary containment, where 1 bbl of produced water was blown out by wind onto the Devon operated production pad. A vacuum truck was immediately dispatched to the Site and recovered 42 bbl of fluids. ESRR conducted initial site assessment activities and mapped the observed release footprint on January 8, 2025, hereafter referred to as the Area of Concern (AOC) (**Figure 2**). Devon gave notice to the New Mexico Oil Conservation Division (NMOCD) on January 6, 2025, by Notification of Release (NOR) and was subsequently assigned Incident Number nAPP2500624157. A Corrective Action Form C-141 (Form C-141) was submitted on January 14, 2025.

On March 29, 2025, Devon requested an extension of the March 31, 2025 deadline, to allow additional time for remediation activities and for ESRR to finalize this CRR. Devon was granted a 90-day extension by the NMOCD for June 30, 2025.

Site Characterization

ESRR characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). The following proximities were estimated:

- Between 1 and 5 miles of any continuously flowing watercourse or any other significant watercourse;
- Between 500 and 1,000 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);

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- Between ½ and 1 mile of any occupied permanent residence, school, hospital, institution or church;
- Between ½ and 1 mile of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Between ½ and 1 mile of any other freshwater well or spring;
- Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- Between 500 and 1,000 feet of any wetland;
- Greater than 5 miles of any subsurface mine;
- Overlying an unstable area (i.e. Critical, High, or Medium Karst Potential); and
- Greater than 5 miles of a 100-year floodplain.

Receptor details used to determine the Site characterization are included in **Figure 1A** and **Figure 1B**. **Referenced Well Record** for the closest depth to water well is attached.

Based on the results from the desktop review, the Site is designated with medium karst potential with no depth to water wells within ½ mile with logged data no greater than 25 years old. The following Closure Criteria was applied:

Constituents of Concern (COCs)	Closure Criteria [‡]
Chloride	600 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	100 mg/kg
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	50 mg/kg

[‡]The reclamation concentration requirements of 600 mg/kg Chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

TPH= Gasoline Range Organics + Diesel Range Organics + Oil Range Organics

Laboratory Analytical Methods used: Environmental Protection Agency (EPA) 300.0, EPA 8015 NM, EPA 8021 B

Delineation Activities

On February 6, 2025, ESRR conducted initial delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Six delineation boreholes (HA-1 through HA-6) were advanced to 1-foot below grade surface (bgs) via hand auger within and surrounding the AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of two soil samples were collected from each delineation borehole, representing the highest observed field screening concentrations and the greatest depth. Delineation soil samples were placed directly into pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs. **Photographic Documentation** of all activities are attached.

Laboratory analytical results for delineation soil samples (HA-3 through HA-6) within and surrounding the AOC were compliant with Site Closure Criteria and/or the reclamation standard defining the horizontal periphery of the AOC.

Laboratory analytical results for delineation soil samples collected within the AOC (HA-1 and HA-2) indicated Chloride was above the Site Closure Criteria and/or the reclamation standard up to 1 feet bgs. Elevated Chloride concentrations were characterized by concentrations ranging from 836 mg/kg to 5,250 mg/kg. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 2**.

On April 17, 2025, ESRR conducted additional delineation activities, further advancing delineation soil samples (HA-1 through HA-4) with the addition of delineation soil sample (HA-7) via mechanical

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equipment within and surrounding the AOC. The delineation soil samples were field screened, handled, transported, and analyzed as previously described.

Laboratory analytical results for additional delineation soil samples (HA-1 through HA-4, HA-7) within and surrounding the AOC were compliant with Site Closure Criteria and/or the reclamation standard.

Liner Inspection

A 48-hour Notification of Liner Inspection (Form C-141 L) was submitted by Devon, on February 27, 2025.

On March 5, 2025, ESRR conducted a thorough visual inspection of the LSC and found no tears, cracks, cuts, breaks, or other signs of damage within the LSC (**Figure 2**), confirming no evidence of a breach of the LSC. As a result, impacts to the production pad appear to have occurred due to windblown overspray of fluids from the LSC. **Photographic Documentation** of liner inspection activities is attached.

Remediation Activities

During May 30, 2025, ESRR oversaw excavation activities of identified soil impacts performed via mechanical equipment based on laboratory analytical results associated with delineation soil sampling activities and visual observation. The excavation was vertically advanced to a depth of approximately 2-feet bgs.

Following the removal of soil, ESRR collected 5-point composite soil samples at a sampling frequency of 200 square feet from the excavation floor (CS-1 through CS-4) and sidewalls (SW-1 through SW-3). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-quart resealable plastic bag. The confirmation soil samples were handled, transported, and analyzed as previously described.

Laboratory analytical results indicated that the concentration of COCs for all final confirmation soil samples were below the applicable Site Closure Criteria and/or reclamation standard. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all final confirmation soil samples are shown in **Figure 3**.

Approximately 70 cubic yards (CY) of impacted soil was removed from the Site and transported to R360 Antelope Draw in Jal, New Mexico under Devon approved manifests. Upon receipt of the final confirmation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. The final soil cover was contoured to match the Site's pre-existing grade to prevent ponding of water and erosion.

Closure Request

Based on laboratory analytical results, impacts associated with the inadvertent release have been delineated, excavated, and removed from the Site in accordance with Site Closure Criteria. Devon believes the completed remedial actions meet the requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment, and groundwater. As such, NFA appears warranted at this time, and Devon respectfully requests Closure of this CRR associated with Incident Number nAPP2500624157.

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If you have any questions or comments, please do not hesitate to contact Gilbert Moreno at (832) 541-7719 or gmoreno@earthsys.net. Documentation and correspondence notifications and Executed chain-of-custody forms and laboratory analytical reports are attached.

Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

A handwritten signature in black ink, appearing to read "Gilbert Moreno".

Gilbert Moreno
Carlsbad Operations Manager/ Project Geologist

A handwritten signature in black ink, appearing to read "Kris Williams".

Kris Williams, CHMM, REM
Principal

cc: Jim Raley, Devon Energy
Bureau of Land Management

Attachments:

- Figure 1 - Site Map
- Figure 1A - Ground Water
- Figure 1B - Karst Potential
- Figure 2 - Delineation Soil Sample Locations
- Figure 3 - Excavation Soil Sample Locations
- Referenced Well Record
- Photographic Documentation
- Table 1 - Soil Sample Analytical Results
- NMOCD Email Documentation & Correspondence
- Executed Chain-of-Custody Forms and Laboratory Analytical Reports

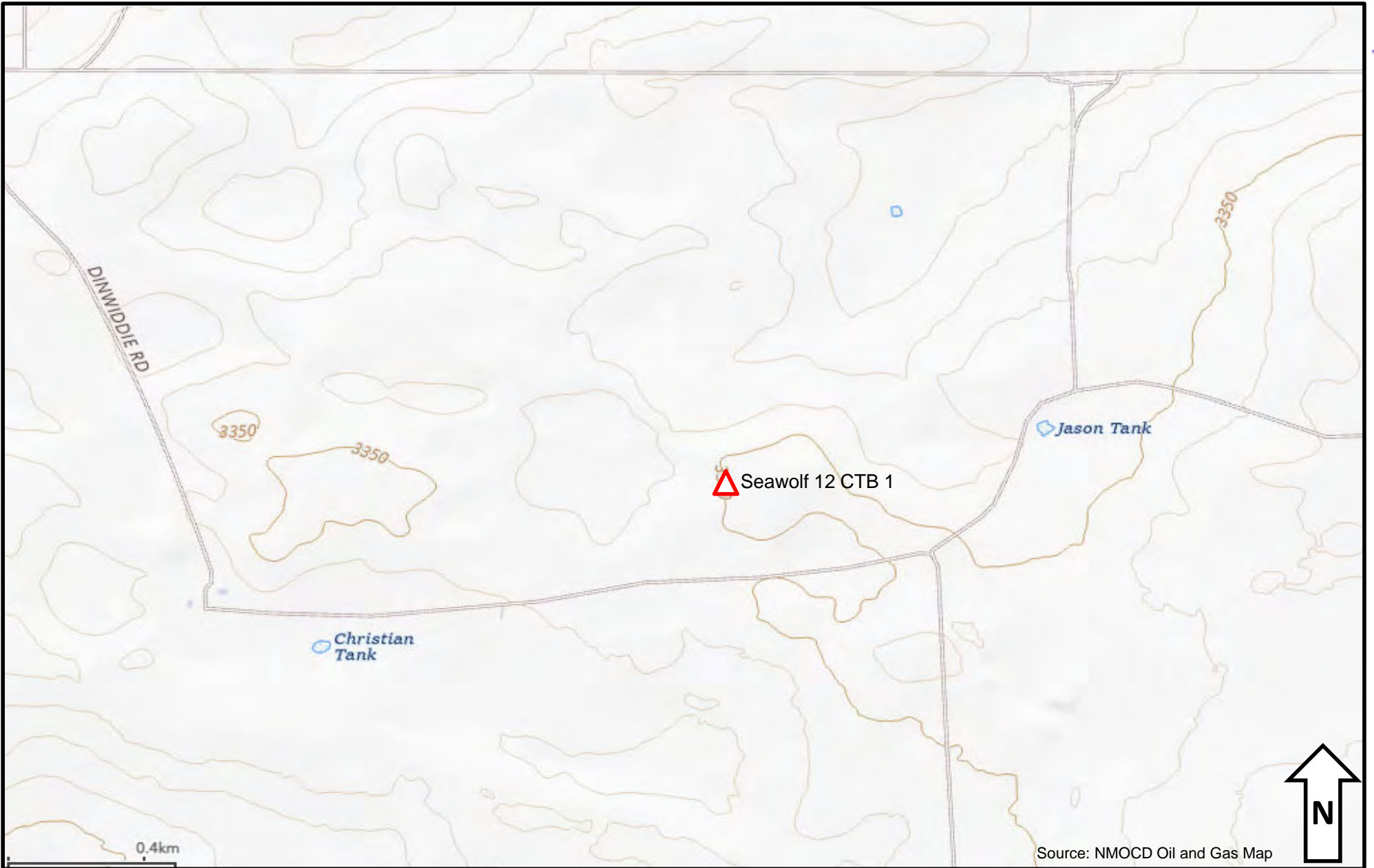


Figure 1 – Site Map

Devon Energy Permian – Seawolf 12 CTB 1
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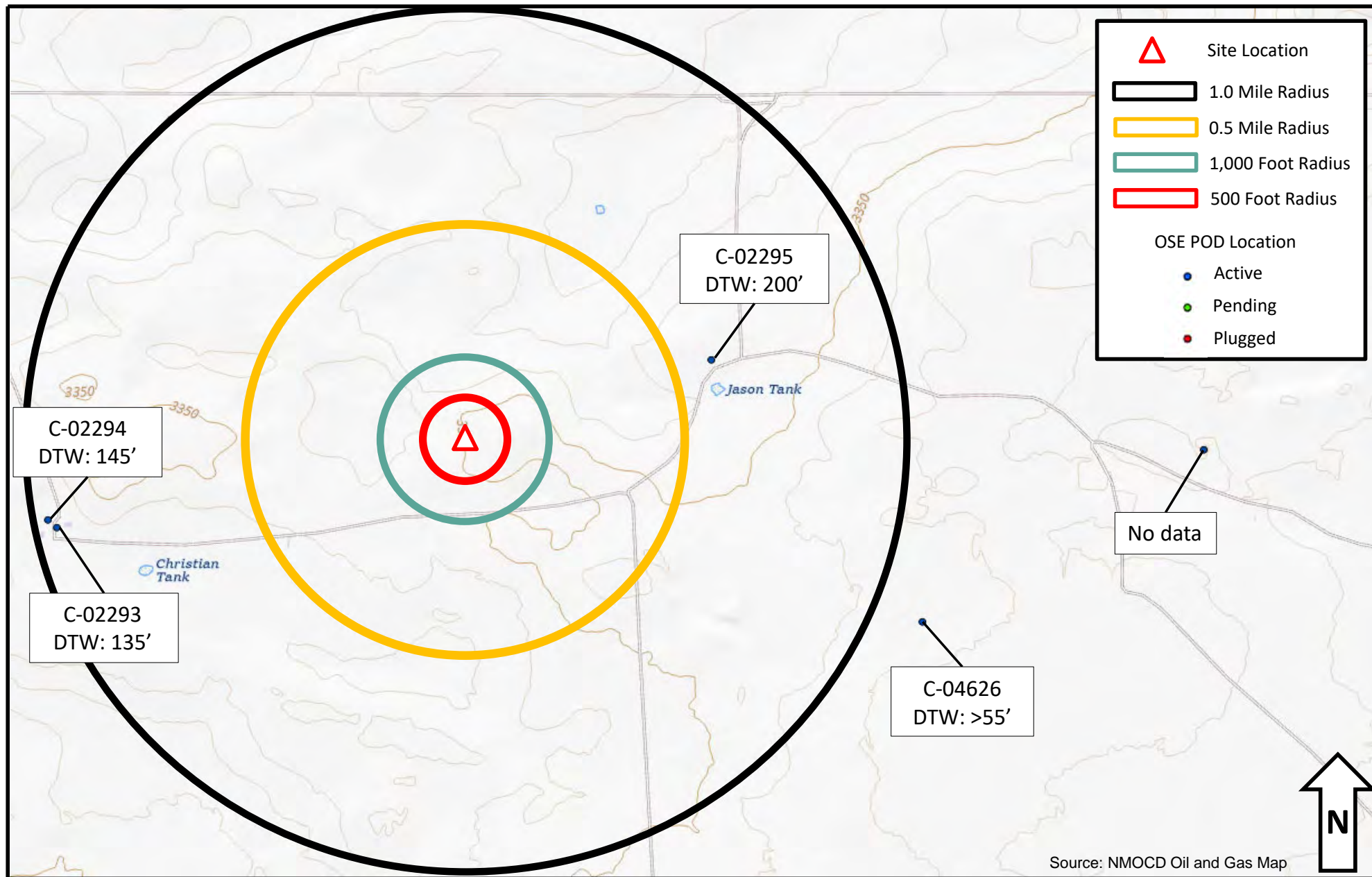


Figure 1A – Ground Water

Devon Energy Permian – Seawolf 12 CTB 1
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Lea County, New Mexico

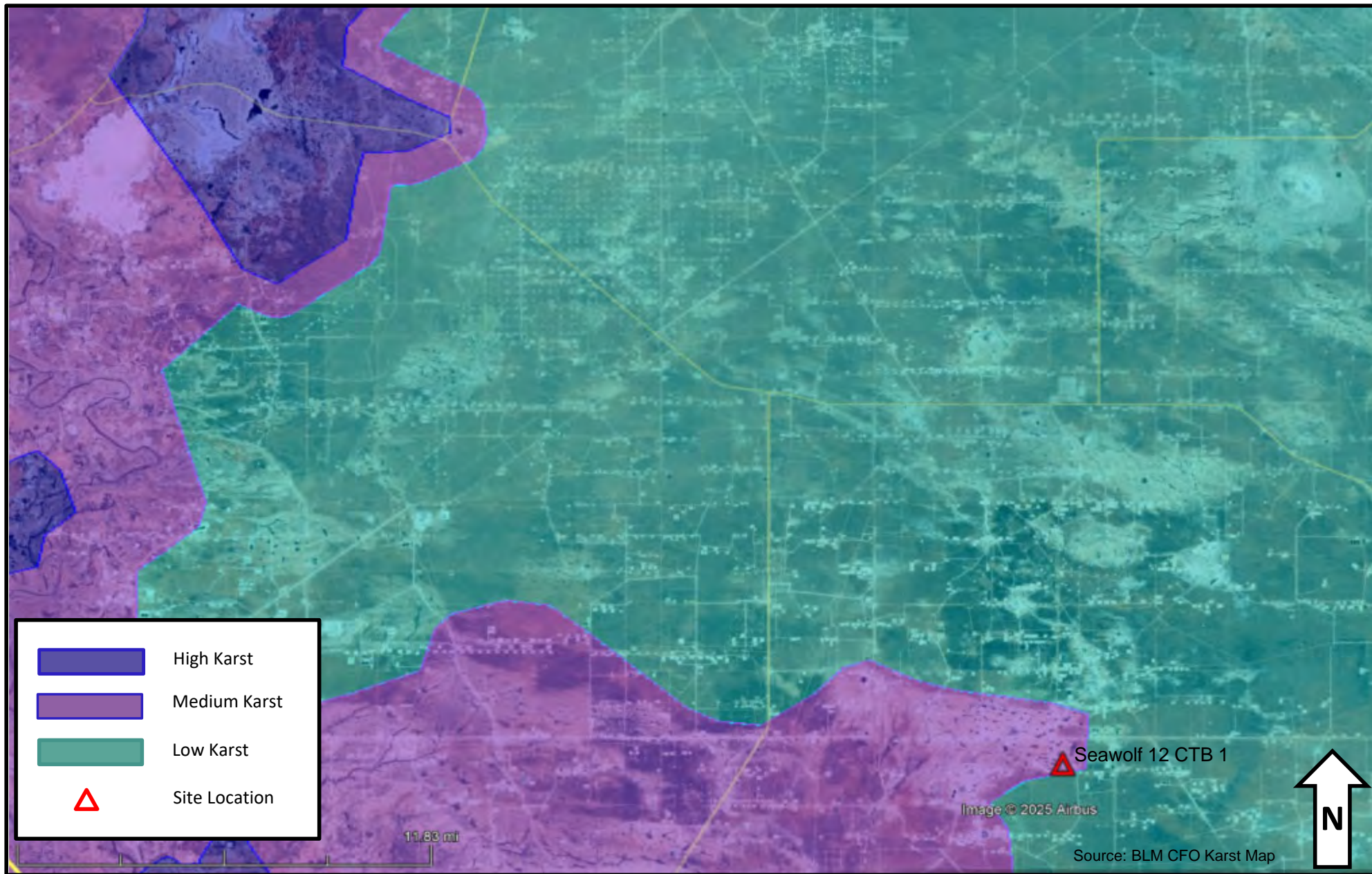
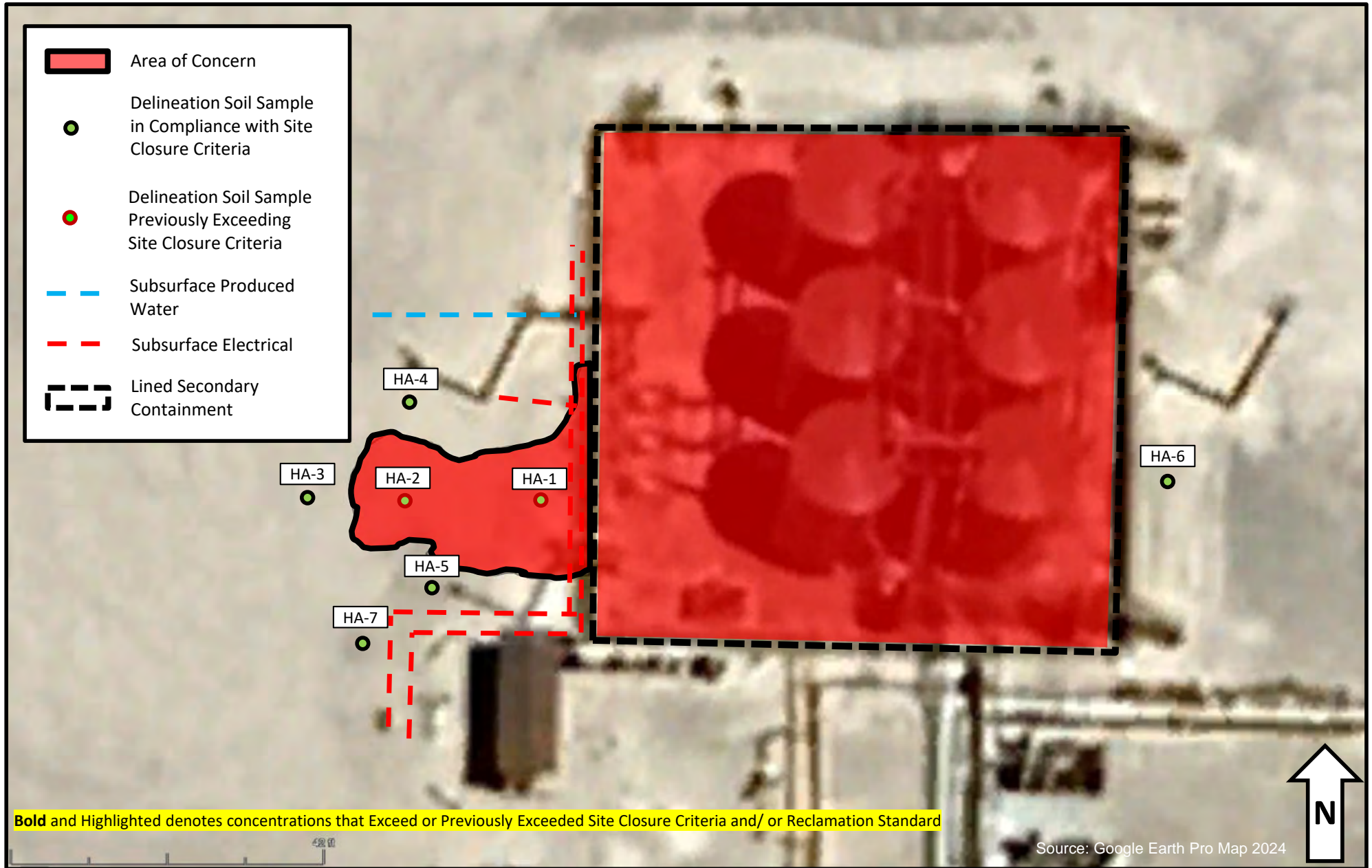
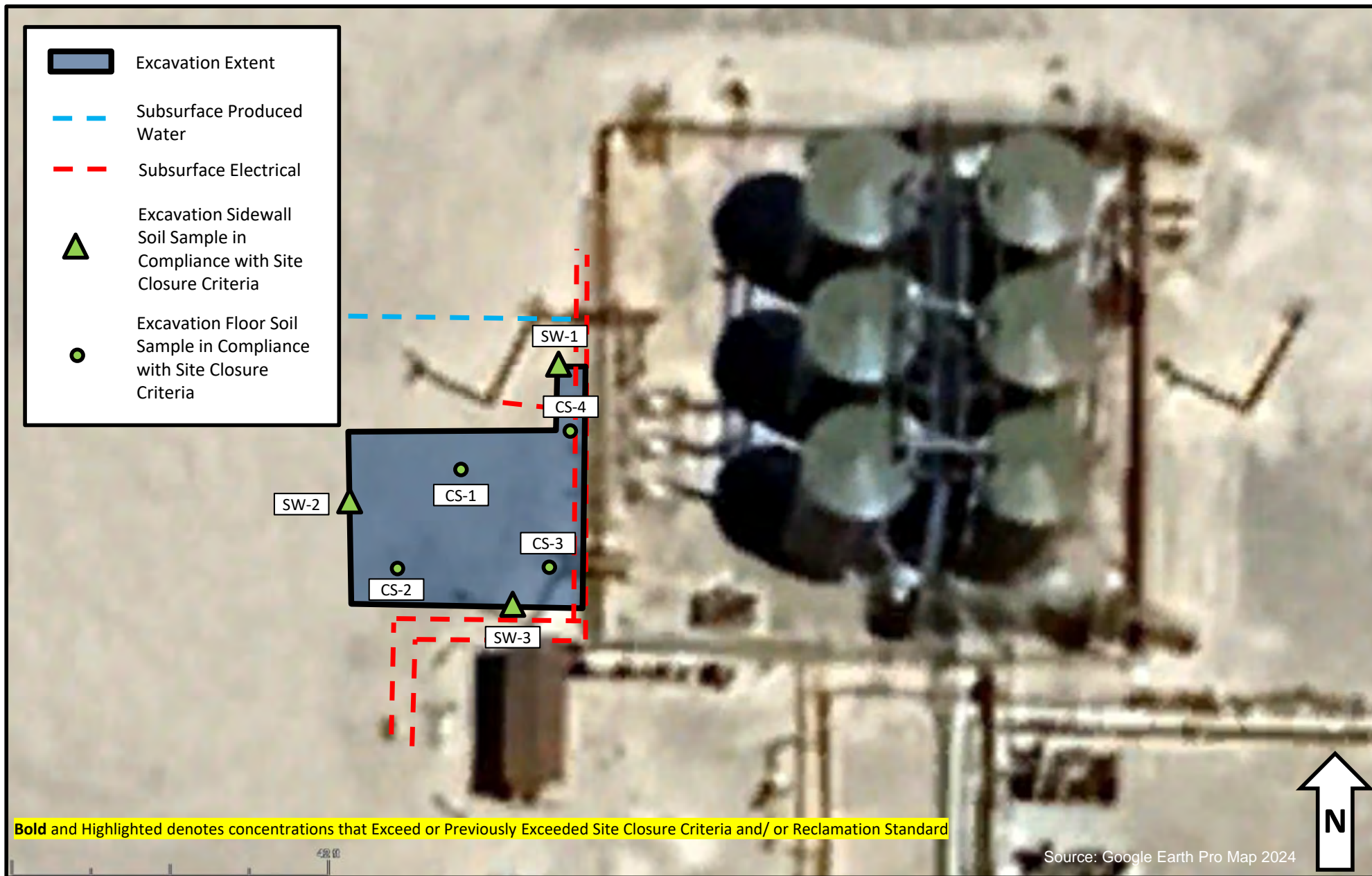


Figure 1B – Karst Potential

Devon Energy Permian – Seawolf 12 CTB 1
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Lea County, New Mexico







WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4626			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 51.06	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
LONGITUDE 103 30 37.08 W DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NE NW Sec.18 T26S R34S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 6/9/2022		DRILLING ENDED 6/9/2022		DEPTH OF COMPLETED WELL (FT) Temporary Well	BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 6/13/2022	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 55		±6.5	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	

OSE OFF JUN 16 2022 4:00 PM

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. <u>C-4626-POD 1</u>	POD NO. <u>1</u>	TRN NO. <u>726171</u>
LOCATION <u>26.34.18.421</u>	WELL TAG ID NO. <u> </u>	PAGE 1 OF 2

A. HYDROGEOLOGIC LOG OF WELL

5. TEST: RIG SUPERVISION

5. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. C-4626-POD 1	POD NO. 1	TRN NO. 726171	
LOCATION 26.34.18.431		WELL TAG ID NO. —	PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 726171
File Nbr: C 04626
Well File Nbr: C 04626 POD1

Jun. 16, 2022

DALE WOODALL
DEVON ENERGY
6488 7 RIVERS HWY
ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 05/24/2022.

The Well Record was received in this office on 06/16/2022, stating that it had been completed on 06/09/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/24/2023.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in blue ink, appearing to read "Maret Amaral".

Maret Amaral
(575) 622-6521

drywell



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

June 8, 2022

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4626 Pod1at Fighting Okra 18 CTB 4

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4626 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton". The signature is fluid and cursive, with the first name "Lucas" and last name "Middleton" clearly distinguishable.

Lucas Middleton

Enclosures: as noted above

OSE OTI JUN 16 2022 PM3:03

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PHOTO 1: Southeastern view during initial site assessment by Devon. 12/31/2024



PHOTO 2: Southwestern view during initial site assessment by Devon. 12/31/2024

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PHOTO 3: Northeastern view of delineation borehole during delineation sampling by ESRR. 2/6/2024



PHOTO 4: Northeastern view of delineation borehole during delineation sampling by ESRR. 2/6/2024

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PHOTO 5: Northeastern view of delineation borehole during delineation sampling by ESRR. 2/6/2024



PHOTO 6: Northeastern view of delineation borehole during delineation sampling by ESRR. 2/6/2024

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PHOTO 7: Southeastern view of delineation borehole during delineation sampling by ESRR. 2/6/2024



PHOTO 8: Northeastern view outside of containment during liner inspection activities. 3/5/2025

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PHOTO 9: Southeastern view outside of containment during liner inspection activities. 3/5/2025

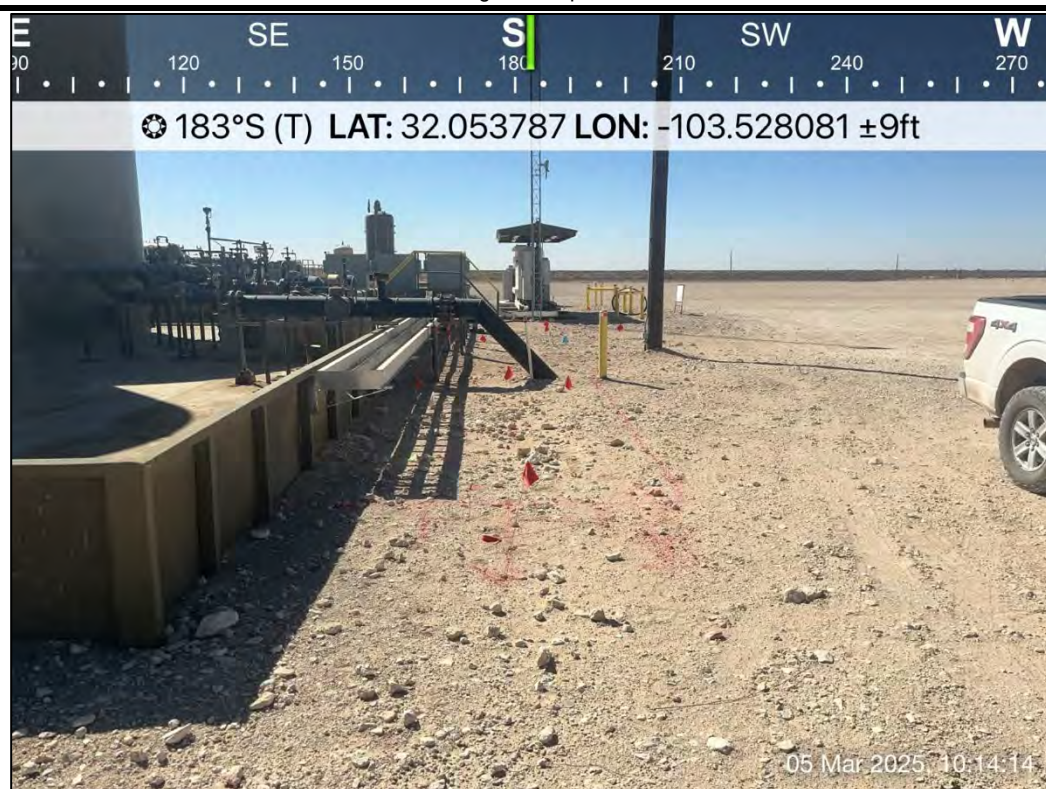


PHOTO 10: Southern view outside of containment during liner inspection activities. 3/5/2025

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PHOTO 11: Western view outside of containment during liner inspection activities. 3/5/2025

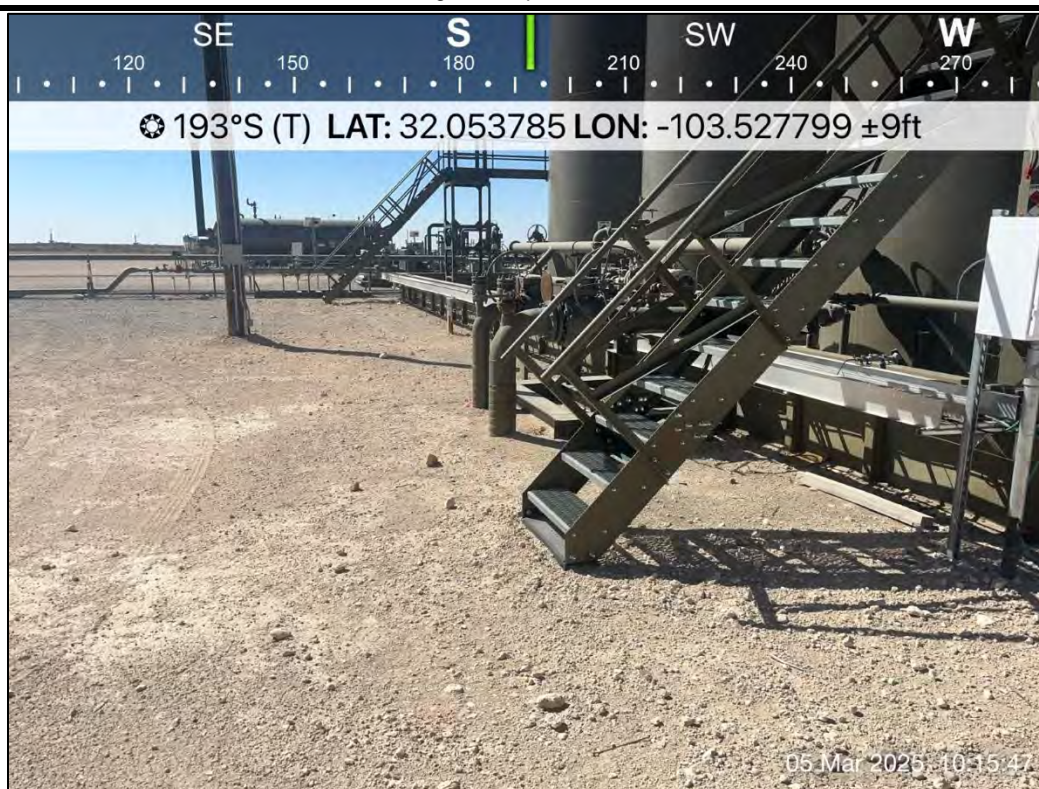


PHOTO 12: Southwestern view outside of containment during liner inspection activities. 3/5/2025

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PHOTO 13: Northwestern view outside of containment during liner inspection activities. 3/5/2025



PHOTO 14: Northwestern view outside of containment during liner inspection activities. 3/5/2025

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PHOTO 15: Eastern view during liner inspection activities. 3/5/2025



PHOTO 16: Northern view during liner inspection activities. 3/5/2025

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PHOTO 17: Southern view during liner inspection activities. 3/5/2025



PHOTO 18: Southern view during liner inspection activities. 3/5/2025

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PHOTO 19: Western view during liner inspection activities. 3/5/2025



PHOTO 20: Northern view during liner inspection activities. 3/5/2025

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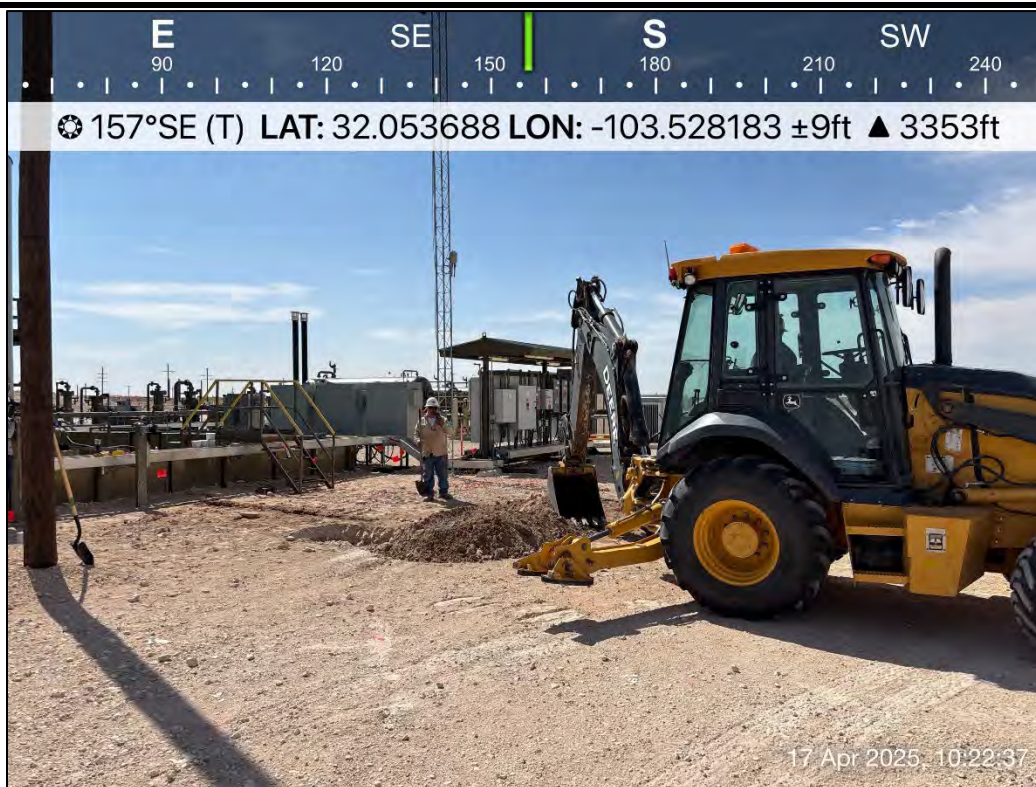


PHOTO 21: Southeastern view during delineation activities. 4/17/2025

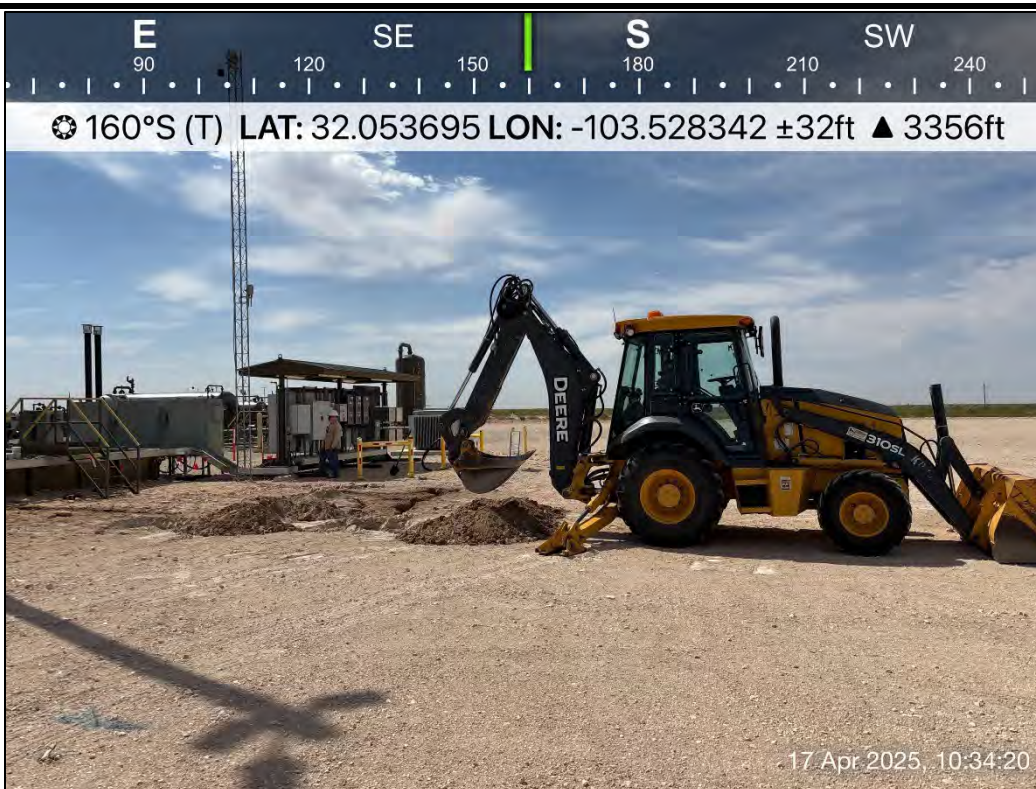


PHOTO 22: Southeastern view during delineation activities. 4/17/2025

Seawolf 12 CTB 1 - Closure Request Report
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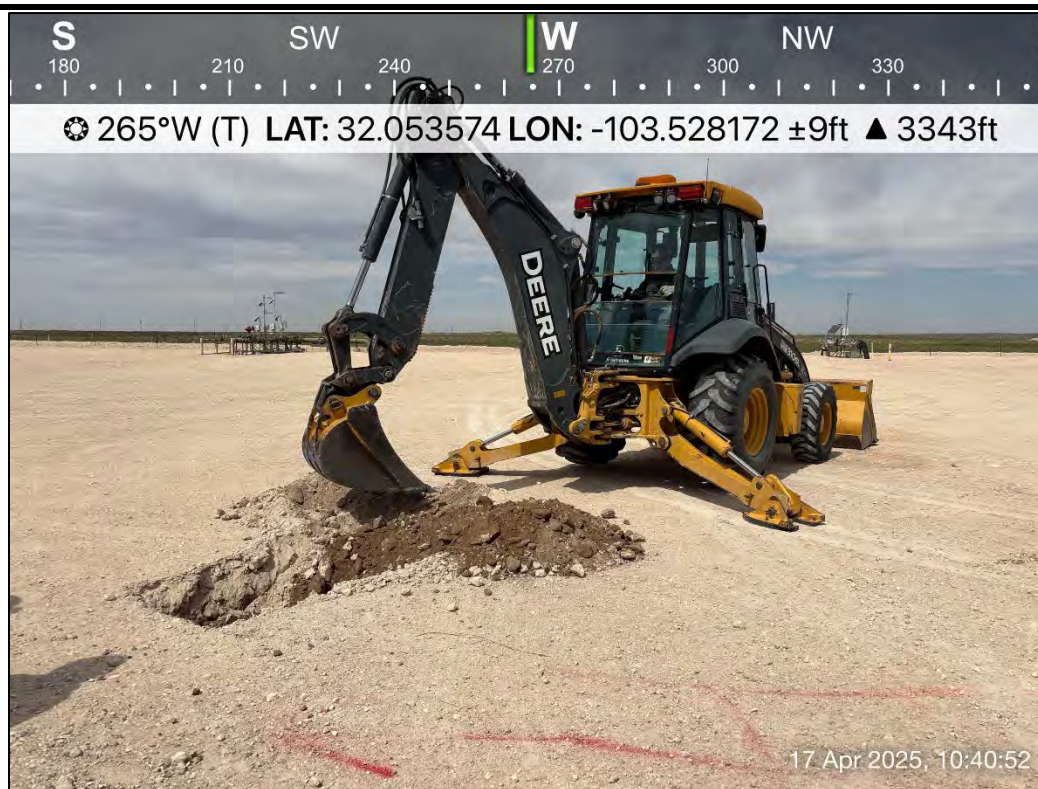


PHOTO 23: Southwestern view during delineation activities. 4/17/2025

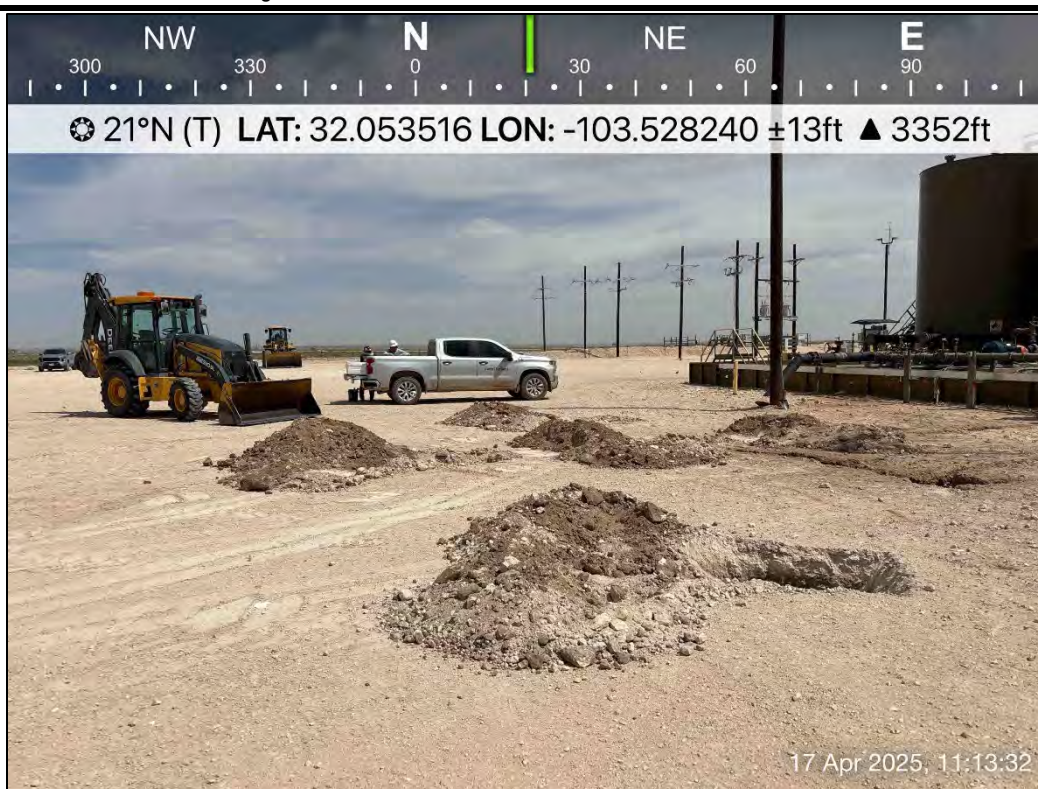


PHOTO 24: Southeastern view during delineation activities. 4/17/2025

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PHOTO 25: Southwestern view during excavation activities. 5/30/2025



PHOTO 26: Southwestern view of excavation extent. 6/3/2025

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PHOTO 27: Northwestern view of excavation extent. 6/3/2025



PHOTO 28: Northeastern view of excavation extent. 6/3/2025

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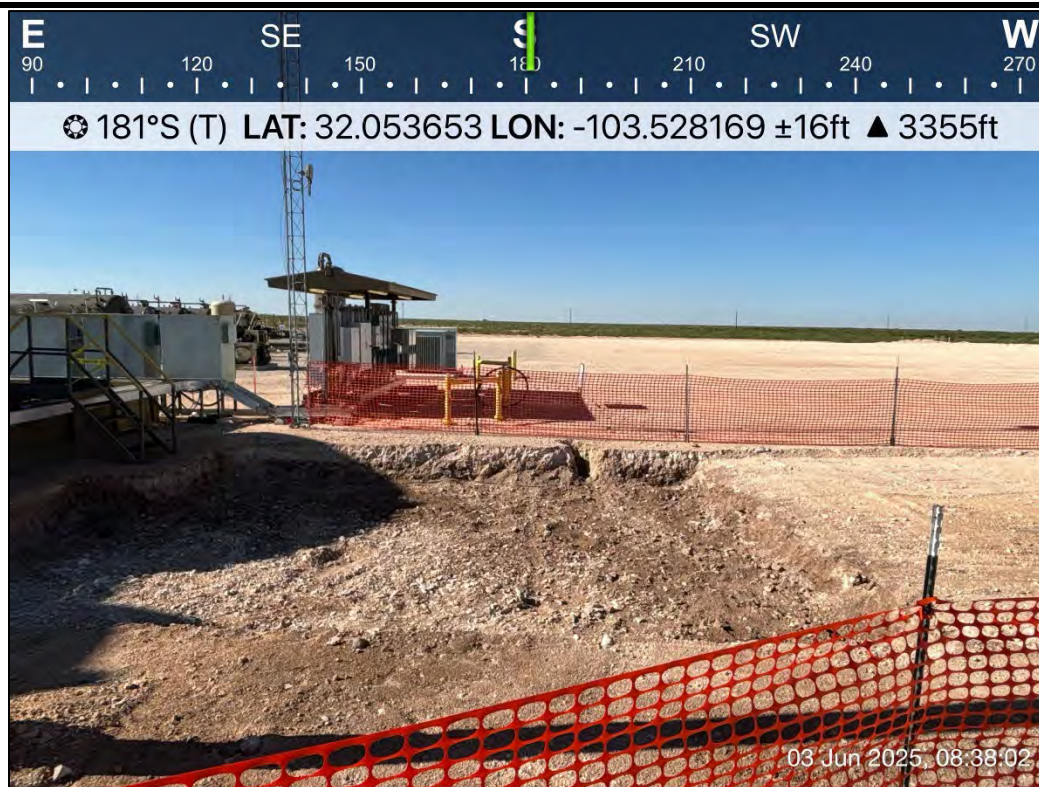


PHOTO 27: Southern view of excavation extent. 6/3/2025

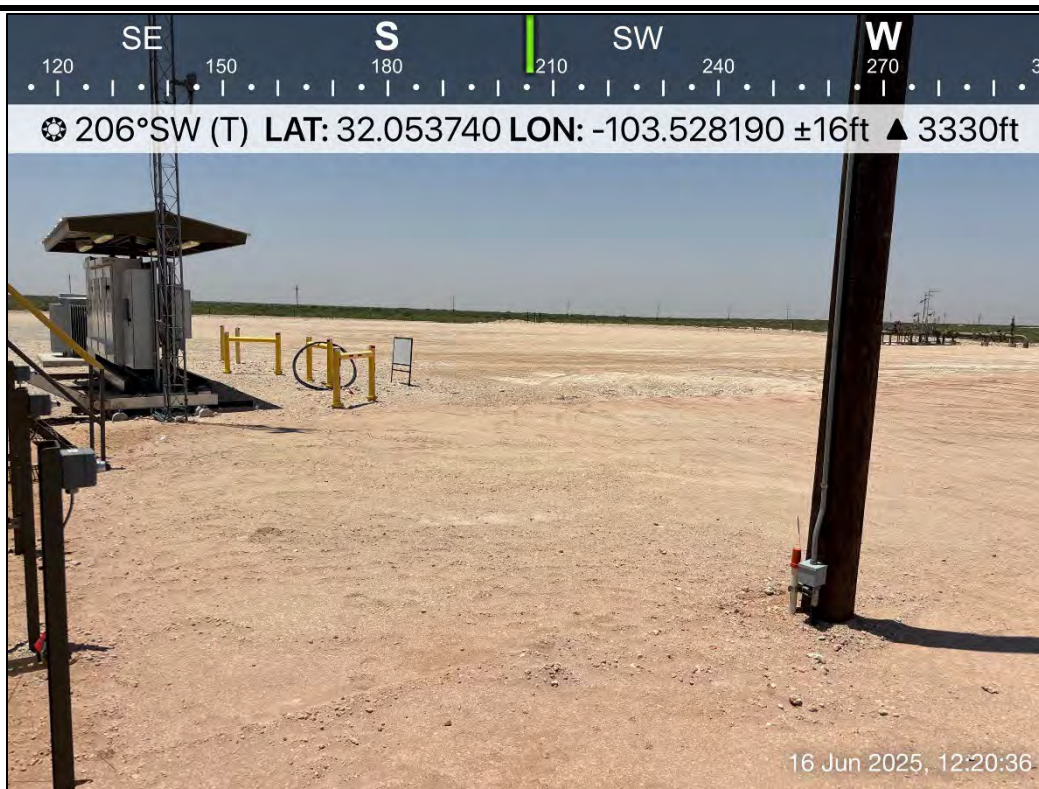


PHOTO 28: Southwestern view following restoration activities 6/16/2025

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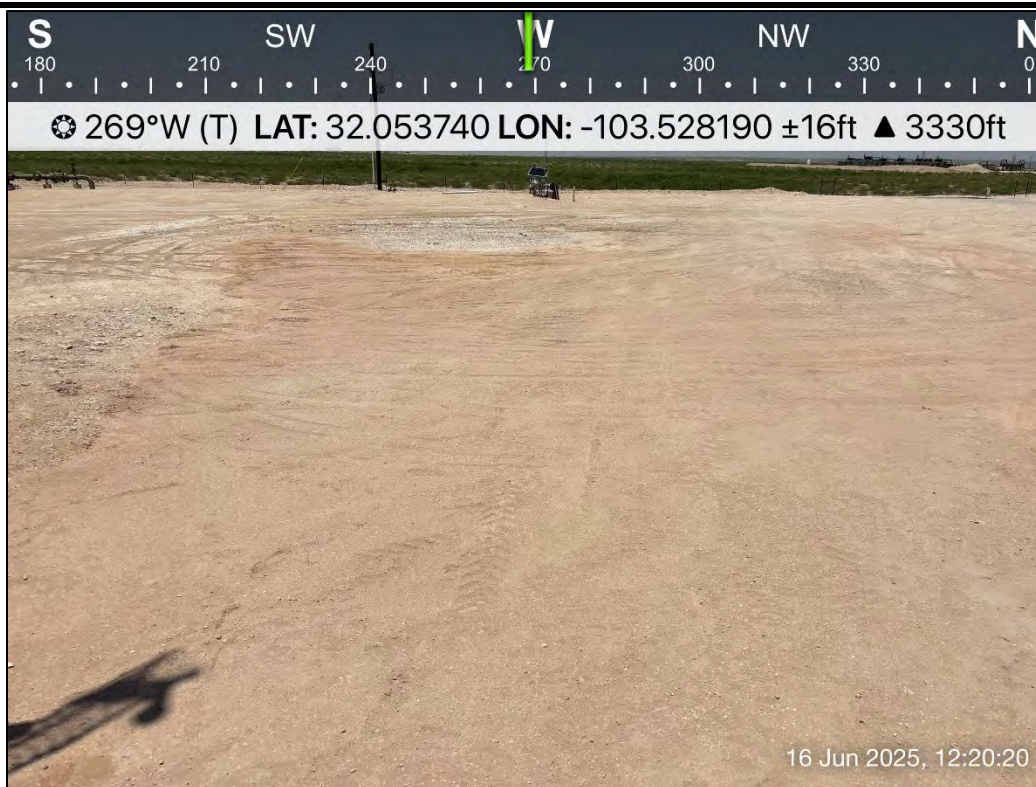


PHOTO 29: Western view following restoration activities. 6/16/2025

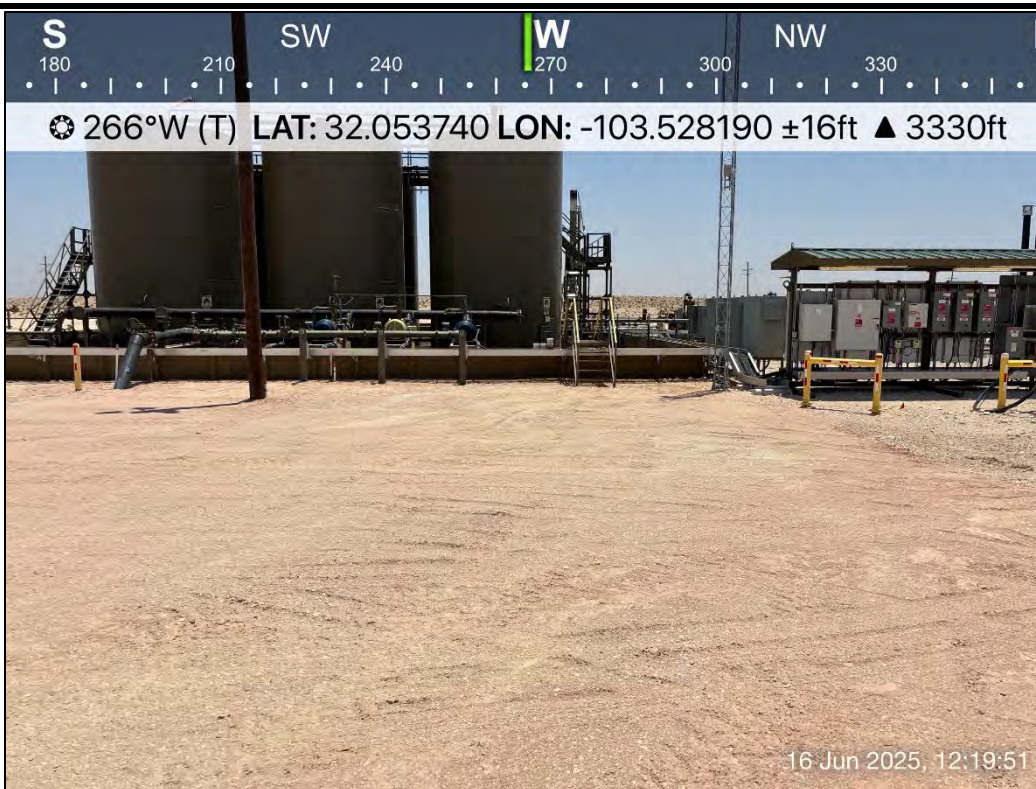


PHOTO 30: Western view following restoration activities. 6/16/2025

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PHOTO 31: Southern view following restoration activities. 6/16/2025



PHOTO 32: Northeastern view of location sign. 6/16/2025



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Seawolf 12 CTB 1
Lea County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Delineation Soil Samples - nAPP2500624157									
HA-1	02/06/25	0.5	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	3,200
HA-1	02/06/25	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	3,070
HA-1	04/17/25	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	192
HA-2	02/06/25	0.5	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	5,250
HA-2	02/06/25	1	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	836
HA-2	04/17/25	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	176
HA-3	02/06/25	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	217
HA-3	02/06/25	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	210
HA-3	04/17/25	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	133
HA-4	02/06/25	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	31.8
HA-4	02/06/25	1	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	38.4
HA-4	04/17/25	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	64.1
HA-5	02/06/25	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	23.1
HA-5	02/06/25	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	21.0
HA-6	02/06/25	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	18.9
HA-6	02/06/25	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	20.7
HA-7	04/17/25	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	103
HA-7	04/17/25	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	100
HA-7	04/17/25	2	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	112
Confirmation Soil Samples - nAPP2500624157									
CS-1	06/03/25	2	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	156
CS-2	06/03/25	2	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	80.1
CS-3	06/03/25	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	127
CS-4	06/03/25	2	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	180
SW-1	06/03/25	0-2	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	293
SW-2	06/03/25	0-2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	212
SW-3	06/03/25	0-2	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	161

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in "grey" represents excavated soil samples

Concentrations in **bold and highlighted** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard* for Soils Impacted by a Release

*The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 436624

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 436624
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500624157
Incident Name	NAPP2500624157 SEAWOLF 12 CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2223534335] SEAWOLF 12 CTB 1

Location of Release Source	
Site Name	SEAWOLF 12 CTB 1
Date Release Discovered	12/31/2024
Surface Owner	Federal

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	4,858
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	03/05/2025
Time liner inspection will commence	08:00 AM
Please provide any information necessary for observers to liner inspection	Gilbert Moreno (832) 541-7719
Please provide any information necessary for navigation to liner inspection site	32.053656°, -103.528029°

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

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 436624

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 436624
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	2/27/2025



Outlook

RE: [EXTERNAL] Seawolf 12 CTB 1 - Extension Request - nAPP2500624157

From Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>**Date** Mon 3/31/2025 7:36 AM**To** Gilbert Moreno <gmoreno@earthsys.net>**Cc** Raley, Jim <Jim.Raley@dmv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Good morning Gilbert,

The extension request for NAPP2500624157 SEAWOLF 12 CTB 1 is approved. The new due date to submit your updated remediation plan or closure report to the OCD is June 30, 2025. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

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: Gilbert Moreno <gmoreno@earthsys.net>**Sent:** Saturday, March 29, 2025 9:09 AM**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>**Cc:** Raley, Jim <Jim.Raley@dmv.com>**Subject:** [EXTERNAL] Seawolf 12 CTB 1 - Extension Request - nAPP2500624157

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

Hello,

Earth Systems R & R (ESRR) on behalf of Devon Energy (Devon) is requesting an extension to the current deadline for a report required in 19.15.29.12.B(1) NMAC at the Seawolf 12 CTB 1 (Site).

A produced water release was discovered on December 31st, 2024, and was subsequently assigned Incident Number nAPP2500624157. Initial delineation activities and a liner inspection were completed by ESRR during February 2025. Further delineation and remediation activities are anticipated to begin mid April 2025.

Devon requests an extension of the March 31st, 2025, deadline for the release associated with Incident Number nAPP2500624157, to allow additional time for scheduling and completion of delineation and remediation activities, and for ESRR to complete a subsequent corrective action closure report.

Thanks,

Gilbert Moreno | Carlsbad Operations Manager- Project Geologist
1910 Resource Ct | Carlsbad NM, 88220
O. 575.323.9034 M. (832) 541-7719 | gmoreno@earthsys.net





Outlook

Re: Soil Sampling Activities - Seawolf 12 CTB 1 - nAPP2500624157

From Gilbert Moreno <gmoreno@earthsys.net>**Date** Tue 5/27/2025 9:17 AM**To** ocd.enviro@emnrd.nm.gov <ocd.enviro@emnrd.nm.gov>**Cc** Raley, Jim <jim.ralej@dvn.com>

Good morning,

The soil sampling activities below have been canceled due to delays from the contractor completing the remediation. We will reschedule once a new date has been confirmed.

Regards,

Gilbert Moreno | Carlsbad Operations Manager- Project Geologist

1910 Resource Ct | Carlsbad NM, 88220

O. 575.323.9034 M. (832) 541-7719 | gmoreno@earthsys.net



From: Gilbert Moreno**Sent:** Wednesday, May 21, 2025 7:34 AM**To:** ocd.enviro@emnrd.nm.gov <ocd.enviro@emnrd.nm.gov>**Cc:** Raley, Jim <jim.ralej@dvn.com>**Subject:** Soil Sampling Activities - Seawolf 12 CTB 1 - nAPP2500624157

Hello,

Earth Systems R & R anticipates conducting soil sampling activities at the Seawolf 12 CTB 1, May 27th and 28th, 2025. This email will be followed up with a Notification of Sampling (C-141N) for the proposed date(s).

Proposed Time:	08:00-17:00 MST
Site Name:	Seawolf 12 CTB 1

Incident Number:	nAPP2500624157
Sampling Surface Area:	1,000 sq. ft.
Samples to be collected:	8
Sampling Date(s):	5/27/2025 & 5/28/2025
Who to Contact:	Gilbert Moreno (832) 541-7719
Site GPS:	32.053553,-103.52788

Gilbert Moreno | Carlsbad Operations Manager- Project Geologist
1910 Resource Ct | Carlsbad NM, 88220
O. 575.323.9034 M. (832) 541-7719 | gmoreno@earthsys.net



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

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

QUESTIONS

Action 468866

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 468866
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500624157
Incident Name	NAPP2500624157 SEAWOLF 12 CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2223534335] SEAWOLF 12 CTB 1

Location of Release Source	
Site Name	SEAWOLF 12 CTB 1
Date Release Discovered	12/31/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	8
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/03/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Gilbert Moreno (832) 541-7719
Please provide any information necessary for navigation to sampling site	32.053553,-103.52788

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 468866

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 468866
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/29/2025



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Generated 2/11/2025 11:36:31 AM

JOB DESCRIPTION

Seawolf 12 CTB 1
Lea County, NM

JOB NUMBER

890-7645-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

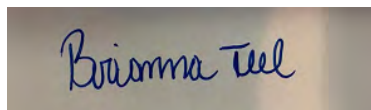
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Job Notes

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

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

Authorization



Generated
2/11/2025 11:36:31 AM

Authorized for release by
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Laboratory Job ID: 890-7645-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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: Earth Systems Response and Restoration
Project: Seawolf 12 CTB 1

Job ID: 890-7645-1

Job ID: 890-7645-1

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Job Narrative 890-7645-1

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

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

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

Receipt

The samples were received on 2/7/2025 11:59 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 2.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-1 (890-7645-1), HA-1 (890-7645-2), HA-2 (890-7645-3), HA-2 (890-7645-4), HA-3 (890-7645-5), HA-3 (890-7645-6), HA-4 (890-7645-7), HA-4 (890-7645-8), HA-5 (890-7645-9), HA-5 (890-7645-10), HA-6 (890-7645-11) and HA-6 (890-7645-12).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-4 (890-7645-8), HA-5 (890-7645-9), HA-6 (890-7645-11), (LCS 880-102351/2-A), (890-7644-A-13-C), (890-7644-A-13-D MS) and (890-7644-A-13-E MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102339 and analytical batch 880-102373 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7645-1

Date Collected: 02/06/25 09:30

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 13:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 13:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 13:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/07/25 15:49	02/10/25 13:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 13:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/07/25 15:49	02/10/25 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	02/07/25 15:49	02/10/25 13:26	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/07/25 15:49	02/10/25 13:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/10/25 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/10/25 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/09/25 21:25	02/10/25 14:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/09/25 21:25	02/10/25 14:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/09/25 21:25	02/10/25 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	02/09/25 21:25	02/10/25 14:54	1
o-Terphenyl	73		70 - 130	02/09/25 21:25	02/10/25 14:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3200		49.6		mg/Kg			02/10/25 19:30	5

Client Sample ID: HA-1

Lab Sample ID: 890-7645-2

Date Collected: 02/06/25 09:35

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 13:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 13:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 13:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 13:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 13:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	02/07/25 15:49	02/10/25 13:47	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7645-2

Date Collected: 02/06/25 09:35

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	02/07/25 15:49	02/10/25 13:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/25 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/10/25 15:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 15:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 15:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 15:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				02/09/25 21:25	02/10/25 15:15	1
o-Terphenyl	72		70 - 130				02/09/25 21:25	02/10/25 15:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3070		50.2		mg/Kg			02/10/25 19:39	5

Client Sample ID: HA-2

Lab Sample ID: 890-7645-3

Date Collected: 02/06/25 09:40

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 14:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 14:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 14:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 14:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 14:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	02/07/25 15:49	02/10/25 14:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/07/25 15:49	02/10/25 14:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/25 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/10/25 15:35	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-7645-3

Date Collected: 02/06/25 09:40

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/09/25 21:25	02/10/25 15:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/09/25 21:25	02/10/25 15:35	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/09/25 21:25	02/10/25 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				02/09/25 21:25	02/10/25 15:35	1
o-Terphenyl	71		70 - 130				02/09/25 21:25	02/10/25 15:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5250		50.4		mg/Kg			02/10/25 19:48	5

Client Sample ID: HA-2

Lab Sample ID: 890-7645-4

Date Collected: 02/06/25 09:45

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 14:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 14:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 14:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/07/25 15:49	02/10/25 14:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 14:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/07/25 15:49	02/10/25 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				02/07/25 15:49	02/10/25 14:28	1
1,4-Difluorobenzene (Surr)	97		70 - 130				02/07/25 15:49	02/10/25 14:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/10/25 14:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/10/25 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/09/25 21:25	02/10/25 15:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/09/25 21:25	02/10/25 15:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/09/25 21:25	02/10/25 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				02/09/25 21:25	02/10/25 15:56	1
o-Terphenyl	77		70 - 130				02/09/25 21:25	02/10/25 15:56	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-2

Date Collected: 02/06/25 09:45

Date Received: 02/07/25 11:59

Sample Depth: 1

Lab Sample ID: 890-7645-4

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	836		9.98		mg/Kg			02/10/25 19:57	1

Client Sample ID: HA-3

Date Collected: 02/06/25 09:50

Date Received: 02/07/25 11:59

Sample Depth: 0.5

Lab Sample ID: 890-7645-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 14:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 14:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 14:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 14:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 14:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				02/07/25 15:49	02/10/25 14:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130				02/07/25 15:49	02/10/25 14:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/25 14:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/10/25 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 16:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 16:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				02/09/25 21:25	02/10/25 16:16	1
o-Terphenyl	77		70 - 130				02/09/25 21:25	02/10/25 16:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	217		9.94		mg/Kg			02/10/25 20:07	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-7645-6

Date Collected: 02/06/25 09:55

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 16:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 16:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 16:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 16:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 16:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	02/07/25 15:49	02/10/25 16:11	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/07/25 15:49	02/10/25 16:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/25 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/10/25 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 16:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 16:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	02/09/25 21:25	02/10/25 16:36	1
o-Terphenyl	71		70 - 130	02/09/25 21:25	02/10/25 16:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		9.94		mg/Kg			02/10/25 20:16	1

Client Sample ID: HA-4

Lab Sample ID: 890-7645-7

Date Collected: 02/06/25 10:00

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 16:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 16:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 16:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/07/25 15:49	02/10/25 16:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 16:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/07/25 15:49	02/10/25 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	02/07/25 15:49	02/10/25 16:32	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-4

Lab Sample ID: 890-7645-7

Date Collected: 02/06/25 10:00

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	02/07/25 15:49	02/10/25 16:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/10/25 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/10/25 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 16:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 16:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	02/09/25 21:25	02/10/25 16:56	1
o-Terphenyl	72		70 - 130	02/09/25 21:25	02/10/25 16:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8	F1	9.96		mg/Kg			02/10/25 19:45	1

Client Sample ID: HA-4

Lab Sample ID: 890-7645-8

Date Collected: 02/06/25 10:05

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/07/25 15:49	02/10/25 16:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/07/25 15:49	02/10/25 16:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/07/25 15:49	02/10/25 16:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/07/25 15:49	02/10/25 16:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/07/25 15:49	02/10/25 16:52	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/07/25 15:49	02/10/25 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	02/07/25 15:49	02/10/25 16:52	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/07/25 15:49	02/10/25 16:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/10/25 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/10/25 17:18	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-4

Date Collected: 02/06/25 10:05

Date Received: 02/07/25 11:59

Sample Depth: 1

Lab Sample ID: 890-7645-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/09/25 21:25	02/10/25 17:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/25 21:25	02/10/25 17:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/25 21:25	02/10/25 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				02/09/25 21:25	02/10/25 17:18	1
o-Terphenyl	66	S1-	70 - 130				02/09/25 21:25	02/10/25 17:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.4		10.1		mg/Kg			02/10/25 20:03	1

Client Sample ID: HA-5

Date Collected: 02/06/25 10:10

Date Received: 02/07/25 11:59

Sample Depth: 0.5

Lab Sample ID: 890-7645-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 17:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 17:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 17:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/07/25 15:49	02/10/25 17:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 17:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/07/25 15:49	02/10/25 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				02/07/25 15:49	02/10/25 17:13	1
1,4-Difluorobenzene (Surr)	98		70 - 130				02/07/25 15:49	02/10/25 17:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/10/25 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/10/25 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 17:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 17:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				02/09/25 21:25	02/10/25 17:58	1
o-Terphenyl	66	S1-	70 - 130				02/09/25 21:25	02/10/25 17:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-5

Lab Sample ID: 890-7645-9

Date Collected: 02/06/25 10:10

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.1		10.1		mg/Kg			02/10/25 20:09	1

Client Sample ID: HA-5

Lab Sample ID: 890-7645-10

Date Collected: 02/06/25 10:15

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 17:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 17:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 17:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/07/25 15:49	02/10/25 17:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 17:33	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/07/25 15:49	02/10/25 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				02/07/25 15:49	02/10/25 17:33	1
1,4-Difluorobenzene (Surr)	97		70 - 130				02/07/25 15:49	02/10/25 17:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/10/25 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/10/25 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 18:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 18:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/09/25 21:25	02/10/25 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				02/09/25 21:25	02/10/25 18:19	1
o-Terphenyl	73		70 - 130				02/09/25 21:25	02/10/25 18:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.0		10.1		mg/Kg			02/10/25 20:15	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-7645-11

Date Collected: 02/06/25 10:20

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 17:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 17:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 17:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 17:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 17:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	02/07/25 15:49	02/10/25 17:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/07/25 15:49	02/10/25 17:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/25 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/10/25 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/09/25 21:25	02/10/25 18:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/09/25 21:25	02/10/25 18:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/25 21:25	02/10/25 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130	02/09/25 21:25	02/10/25 18:39	1
o-Terphenyl	62	S1-	70 - 130	02/09/25 21:25	02/10/25 18:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.9		10.1		mg/Kg			02/10/25 20:21	1

Client Sample ID: HA-6

Lab Sample ID: 890-7645-12

Date Collected: 02/06/25 10:25

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 18:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 18:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 18:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 18:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/07/25 15:49	02/10/25 18:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/07/25 15:49	02/10/25 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	02/07/25 15:49	02/10/25 18:14	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-6

Lab Sample ID: 890-7645-12

Date Collected: 02/06/25 10:25

Matrix: Solid

Date Received: 02/07/25 11:59

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	02/07/25 15:49	02/10/25 18:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/25 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/10/25 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/09/25 21:25	02/10/25 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/25 21:25	02/10/25 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/25 21:25	02/10/25 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	02/09/25 21:25	02/10/25 19:00	1
o-Terphenyl	86		70 - 130	02/09/25 21:25	02/10/25 19:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.7		9.98		mg/Kg			02/10/25 20:40	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

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)
890-7645-1	HA-1	121	98
890-7645-2	HA-1	118	98
890-7645-3	HA-2	118	97
890-7645-4	HA-2	127	97
890-7645-5	HA-3	121	100
890-7645-6	HA-3	121	100
890-7645-7	HA-4	115	97
890-7645-8	HA-4	120	99
890-7645-9	HA-5	119	98
890-7645-10	HA-5	119	97
890-7645-11	HA-6	117	97
890-7645-12	HA-6	124	96
LCS 880-102328/1-A	Lab Control Sample	105	121
LCSD 880-102328/2-A	Lab Control Sample Dup	106	111
MB 880-102328/5-A	Method Blank	110	90
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)
890-7645-1	HA-1	72	73
890-7645-2	HA-1	71	72
890-7645-3	HA-2	70	71
890-7645-4	HA-2	76	77
890-7645-5	HA-3	77	77
890-7645-6	HA-3	71	71
890-7645-7	HA-4	72	72
890-7645-8	HA-4	66 S1-	66 S1-
890-7645-9	HA-5	65 S1-	66 S1-
890-7645-10	HA-5	74	73
890-7645-11	HA-6	63 S1-	62 S1-
890-7645-12	HA-6	85	86
LCS 880-102351/2-A	Lab Control Sample	69 S1-	66 S1-
LCSD 880-102351/3-A	Lab Control Sample Dup	77	75
MB 880-102351/1-A	Method Blank	75	82
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102328/5-A

Matrix: Solid

Analysis Batch: 102361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/07/25 15:49	02/10/25 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/07/25 15:49	02/10/25 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/07/25 15:49	02/10/25 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	02/07/25 15:49	02/10/25 11:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130	02/07/25 15:49	02/10/25 11:23	1

Lab Sample ID: LCS 880-102328/1-A

Matrix: Solid

Analysis Batch: 102361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1151		mg/Kg		115	70 - 130
Toluene	0.100	0.1106		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.09741		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2058		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: LCSD 880-102328/2-A

Matrix: Solid

Analysis Batch: 102361

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102328

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1143		mg/Kg		114	70 - 130	1	35
Toluene	0.100	0.1145		mg/Kg		114	70 - 130	3	35
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2131		mg/Kg		107	70 - 130	3	35
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-102351/1-A

Matrix: Solid

Analysis Batch: 102365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/09/25 21:25	02/10/25 08:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/25 21:25	02/10/25 08:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/25 21:25	02/10/25 08:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				02/09/25 21:25	02/10/25 08:48	1
o-Terphenyl	82		70 - 130				02/09/25 21:25	02/10/25 08:48	1

Lab Sample ID: LCS 880-102351/2-A

Matrix: Solid

Analysis Batch: 102365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	829.2		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	824.6		mg/Kg		82	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	69	S1-	70 - 130				
o-Terphenyl	66	S1-	70 - 130				

Lab Sample ID: LCSD 880-102351/3-A

Matrix: Solid

Analysis Batch: 102365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102351

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	947.0		mg/Kg		95	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	883.2		mg/Kg		88	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	77		70 - 130						
o-Terphenyl	75		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102338/1-A

Matrix: Solid

Analysis Batch: 102370

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/10/25 15:41	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-102338/2-A

Matrix: Solid

Analysis Batch: 102370

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.7		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-102338/3-A

Matrix: Solid

Analysis Batch: 102370

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	242.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-102339/1-A

Matrix: Solid

Analysis Batch: 102373

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/10/25 19:26	1

Lab Sample ID: LCS 880-102339/2-A

Matrix: Solid

Analysis Batch: 102373

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.4		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-102339/3-A

Matrix: Solid

Analysis Batch: 102373

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	268.8		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-7645-7 MS

Matrix: Solid

Analysis Batch: 102373

Client Sample ID: HA-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	31.8	F1	249	311.5	F1	mg/Kg		112	90 - 110

Lab Sample ID: 890-7645-7 MSD

Matrix: Solid

Analysis Batch: 102373

Client Sample ID: HA-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	31.8	F1	249	312.6	F1	mg/Kg		113	90 - 110	0	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

GC VOA

Prep Batch: 102328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7645-1	HA-1	Total/NA	Solid	5035	
890-7645-2	HA-1	Total/NA	Solid	5035	
890-7645-3	HA-2	Total/NA	Solid	5035	
890-7645-4	HA-2	Total/NA	Solid	5035	
890-7645-5	HA-3	Total/NA	Solid	5035	
890-7645-6	HA-3	Total/NA	Solid	5035	
890-7645-7	HA-4	Total/NA	Solid	5035	
890-7645-8	HA-4	Total/NA	Solid	5035	
890-7645-9	HA-5	Total/NA	Solid	5035	
890-7645-10	HA-5	Total/NA	Solid	5035	
890-7645-11	HA-6	Total/NA	Solid	5035	
890-7645-12	HA-6	Total/NA	Solid	5035	
MB 880-102328/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102328/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102328/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 102361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7645-1	HA-1	Total/NA	Solid	8021B	102328
890-7645-2	HA-1	Total/NA	Solid	8021B	102328
890-7645-3	HA-2	Total/NA	Solid	8021B	102328
890-7645-4	HA-2	Total/NA	Solid	8021B	102328
890-7645-5	HA-3	Total/NA	Solid	8021B	102328
890-7645-6	HA-3	Total/NA	Solid	8021B	102328
890-7645-7	HA-4	Total/NA	Solid	8021B	102328
890-7645-8	HA-4	Total/NA	Solid	8021B	102328
890-7645-9	HA-5	Total/NA	Solid	8021B	102328
890-7645-10	HA-5	Total/NA	Solid	8021B	102328
890-7645-11	HA-6	Total/NA	Solid	8021B	102328
890-7645-12	HA-6	Total/NA	Solid	8021B	102328
MB 880-102328/5-A	Method Blank	Total/NA	Solid	8021B	102328
LCS 880-102328/1-A	Lab Control Sample	Total/NA	Solid	8021B	102328
LCSD 880-102328/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102328

Analysis Batch: 102384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7645-1	HA-1	Total/NA	Solid	Total BTEX	
890-7645-2	HA-1	Total/NA	Solid	Total BTEX	
890-7645-3	HA-2	Total/NA	Solid	Total BTEX	
890-7645-4	HA-2	Total/NA	Solid	Total BTEX	
890-7645-5	HA-3	Total/NA	Solid	Total BTEX	
890-7645-6	HA-3	Total/NA	Solid	Total BTEX	
890-7645-7	HA-4	Total/NA	Solid	Total BTEX	
890-7645-8	HA-4	Total/NA	Solid	Total BTEX	
890-7645-9	HA-5	Total/NA	Solid	Total BTEX	
890-7645-10	HA-5	Total/NA	Solid	Total BTEX	
890-7645-11	HA-6	Total/NA	Solid	Total BTEX	
890-7645-12	HA-6	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

GC Semi VOA

Prep Batch: 102351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7645-1	HA-1	Total/NA	Solid	8015NM Prep	
890-7645-2	HA-1	Total/NA	Solid	8015NM Prep	
890-7645-3	HA-2	Total/NA	Solid	8015NM Prep	
890-7645-4	HA-2	Total/NA	Solid	8015NM Prep	
890-7645-5	HA-3	Total/NA	Solid	8015NM Prep	
890-7645-6	HA-3	Total/NA	Solid	8015NM Prep	
890-7645-7	HA-4	Total/NA	Solid	8015NM Prep	
890-7645-8	HA-4	Total/NA	Solid	8015NM Prep	
890-7645-9	HA-5	Total/NA	Solid	8015NM Prep	
890-7645-10	HA-5	Total/NA	Solid	8015NM Prep	
890-7645-11	HA-6	Total/NA	Solid	8015NM Prep	
890-7645-12	HA-6	Total/NA	Solid	8015NM Prep	
MB 880-102351/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102351/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102351/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7645-1	HA-1	Total/NA	Solid	8015B NM	102351
890-7645-2	HA-1	Total/NA	Solid	8015B NM	102351
890-7645-3	HA-2	Total/NA	Solid	8015B NM	102351
890-7645-4	HA-2	Total/NA	Solid	8015B NM	102351
890-7645-5	HA-3	Total/NA	Solid	8015B NM	102351
890-7645-6	HA-3	Total/NA	Solid	8015B NM	102351
890-7645-7	HA-4	Total/NA	Solid	8015B NM	102351
890-7645-8	HA-4	Total/NA	Solid	8015B NM	102351
890-7645-9	HA-5	Total/NA	Solid	8015B NM	102351
890-7645-10	HA-5	Total/NA	Solid	8015B NM	102351
890-7645-11	HA-6	Total/NA	Solid	8015B NM	102351
890-7645-12	HA-6	Total/NA	Solid	8015B NM	102351
MB 880-102351/1-A	Method Blank	Total/NA	Solid	8015B NM	102351
LCS 880-102351/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102351
LCSD 880-102351/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102351

Analysis Batch: 102465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7645-1	HA-1	Total/NA	Solid	8015 NM	
890-7645-2	HA-1	Total/NA	Solid	8015 NM	
890-7645-3	HA-2	Total/NA	Solid	8015 NM	
890-7645-4	HA-2	Total/NA	Solid	8015 NM	
890-7645-5	HA-3	Total/NA	Solid	8015 NM	
890-7645-6	HA-3	Total/NA	Solid	8015 NM	
890-7645-7	HA-4	Total/NA	Solid	8015 NM	
890-7645-8	HA-4	Total/NA	Solid	8015 NM	
890-7645-9	HA-5	Total/NA	Solid	8015 NM	
890-7645-10	HA-5	Total/NA	Solid	8015 NM	
890-7645-11	HA-6	Total/NA	Solid	8015 NM	
890-7645-12	HA-6	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

HPLC/IC

Leach Batch: 102338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7645-1	HA-1	Soluble	Solid	DI Leach	
890-7645-2	HA-1	Soluble	Solid	DI Leach	
890-7645-3	HA-2	Soluble	Solid	DI Leach	
890-7645-4	HA-2	Soluble	Solid	DI Leach	
890-7645-5	HA-3	Soluble	Solid	DI Leach	
890-7645-6	HA-3	Soluble	Solid	DI Leach	
MB 880-102338/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102338/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102338/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 102339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7645-7	HA-4	Soluble	Solid	DI Leach	
890-7645-8	HA-4	Soluble	Solid	DI Leach	
890-7645-9	HA-5	Soluble	Solid	DI Leach	
890-7645-10	HA-5	Soluble	Solid	DI Leach	
890-7645-11	HA-6	Soluble	Solid	DI Leach	
890-7645-12	HA-6	Soluble	Solid	DI Leach	
MB 880-102339/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102339/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102339/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7645-7 MS	HA-4	Soluble	Solid	DI Leach	
890-7645-7 MSD	HA-4	Soluble	Solid	DI Leach	

Analysis Batch: 102370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7645-1	HA-1	Soluble	Solid	300.0	102338
890-7645-2	HA-1	Soluble	Solid	300.0	102338
890-7645-3	HA-2	Soluble	Solid	300.0	102338
890-7645-4	HA-2	Soluble	Solid	300.0	102338
890-7645-5	HA-3	Soluble	Solid	300.0	102338
890-7645-6	HA-3	Soluble	Solid	300.0	102338
MB 880-102338/1-A	Method Blank	Soluble	Solid	300.0	102338
LCS 880-102338/2-A	Lab Control Sample	Soluble	Solid	300.0	102338
LCSD 880-102338/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102338

Analysis Batch: 102373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7645-7	HA-4	Soluble	Solid	300.0	102339
890-7645-8	HA-4	Soluble	Solid	300.0	102339
890-7645-9	HA-5	Soluble	Solid	300.0	102339
890-7645-10	HA-5	Soluble	Solid	300.0	102339
890-7645-11	HA-6	Soluble	Solid	300.0	102339
890-7645-12	HA-6	Soluble	Solid	300.0	102339
MB 880-102339/1-A	Method Blank	Soluble	Solid	300.0	102339
LCS 880-102339/2-A	Lab Control Sample	Soluble	Solid	300.0	102339
LCSD 880-102339/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102339
890-7645-7 MS	HA-4	Soluble	Solid	300.0	102339
890-7645-7 MSD	HA-4	Soluble	Solid	300.0	102339

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7645-1

Date Collected: 02/06/25 09:30

Matrix: Solid

Date Received: 02/07/25 11:59

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	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 13:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 13:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102465	02/10/25 14:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 14:54	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102338	02/07/25 18:26	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	102370	02/10/25 19:30	CH	EET MID

Client Sample ID: HA-1

Lab Sample ID: 890-7645-2

Date Collected: 02/06/25 09:35

Matrix: Solid

Date Received: 02/07/25 11:59

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	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 13:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 13:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102465	02/10/25 15:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 15:15	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102338	02/07/25 18:26	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	102370	02/10/25 19:39	CH	EET MID

Client Sample ID: HA-2

Lab Sample ID: 890-7645-3

Date Collected: 02/06/25 09:40

Matrix: Solid

Date Received: 02/07/25 11:59

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	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 14:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 14:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102465	02/10/25 15:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 15:35	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102338	02/07/25 18:26	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	102370	02/10/25 19:48	CH	EET MID

Client Sample ID: HA-2

Lab Sample ID: 890-7645-4

Date Collected: 02/06/25 09:45

Matrix: Solid

Date Received: 02/07/25 11:59

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	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 14:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 14:28	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-2**Date Collected: 02/06/25 09:45****Date Received: 02/07/25 11:59****Lab Sample ID: 890-7645-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			102465	02/10/25 15:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 15:56	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102338	02/07/25 18:26	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102370	02/10/25 19:57	CH	EET MID

Client Sample ID: HA-3**Date Collected: 02/06/25 09:50****Date Received: 02/07/25 11:59****Lab Sample ID: 890-7645-5****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 14:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102465	02/10/25 16:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 16:16	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102338	02/07/25 18:26	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102370	02/10/25 20:07	CH	EET MID

Client Sample ID: HA-3**Date Collected: 02/06/25 09:55****Date Received: 02/07/25 11:59****Lab Sample ID: 890-7645-6****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 16:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 16:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102465	02/10/25 16:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 16:36	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102338	02/07/25 18:26	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102370	02/10/25 20:16	CH	EET MID

Client Sample ID: HA-4**Date Collected: 02/06/25 10:00****Date Received: 02/07/25 11:59****Lab Sample ID: 890-7645-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 16:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 16:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102465	02/10/25 16:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 16:56	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-4**Date Collected: 02/06/25 10:00****Date Received: 02/07/25 11:59****Lab Sample ID: 890-7645-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	102339	02/07/25 18:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102373	02/10/25 19:45	CH	EET MID

Client Sample ID: HA-4**Date Collected: 02/06/25 10:05****Date Received: 02/07/25 11:59****Lab Sample ID: 890-7645-8****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 16:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 16:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102465	02/10/25 17:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 17:18	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102339	02/07/25 18:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102373	02/10/25 20:03	CH	EET MID

Client Sample ID: HA-5**Date Collected: 02/06/25 10:10****Date Received: 02/07/25 11:59****Lab Sample ID: 890-7645-9****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 17:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 17:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102465	02/10/25 17:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 17:58	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102339	02/07/25 18:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102373	02/10/25 20:09	CH	EET MID

Client Sample ID: HA-5**Date Collected: 02/06/25 10:15****Date Received: 02/07/25 11:59****Lab Sample ID: 890-7645-10****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 17:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102465	02/10/25 18:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 18:19	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102339	02/07/25 18:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102373	02/10/25 20:15	CH	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Client Sample ID: HA-6**Lab Sample ID: 890-7645-11****Date Collected: 02/06/25 10:20****Matrix: Solid****Date Received: 02/07/25 11:59**

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	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 17:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 17:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102465	02/10/25 18:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 18:39	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	102339	02/07/25 18:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102373	02/10/25 20:21	CH	EET MID

Client Sample ID: HA-6**Lab Sample ID: 890-7645-12****Date Collected: 02/06/25 10:25****Matrix: Solid****Date Received: 02/07/25 11:59**

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	102328	02/07/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102361	02/10/25 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102384	02/10/25 18:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102465	02/10/25 19:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102351	02/09/25 21:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102365	02/10/25 19:00	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102339	02/07/25 18:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102373	02/10/25 20:40	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

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: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7645-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7645-1	HA-1	Solid	02/06/25 09:30	02/07/25 11:59	0.5
890-7645-2	HA-1	Solid	02/06/25 09:35	02/07/25 11:59	1
890-7645-3	HA-2	Solid	02/06/25 09:40	02/07/25 11:59	0.5
890-7645-4	HA-2	Solid	02/06/25 09:45	02/07/25 11:59	1
890-7645-5	HA-3	Solid	02/06/25 09:50	02/07/25 11:59	0.5
890-7645-6	HA-3	Solid	02/06/25 09:55	02/07/25 11:59	1
890-7645-7	HA-4	Solid	02/06/25 10:00	02/07/25 11:59	0.5
890-7645-8	HA-4	Solid	02/06/25 10:05	02/07/25 11:59	1
890-7645-9	HA-5	Solid	02/06/25 10:10	02/07/25 11:59	0.5
890-7645-10	HA-5	Solid	02/06/25 10:15	02/07/25 11:59	1
890-7645-11	HA-6	Solid	02/06/25 10:20	02/07/25 11:59	0.5
890-7645-12	HA-6	Solid	02/06/25 10:25	02/07/25 11:59	1



Environment Testing
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Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199



890-7645 Chain of Custody

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Page 1 of 2

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Riley
Company Name:	Earth Systems R&R	Company Name:	WFX Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	
--	--

Project Name:	Seawolf 12 CTB 1	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number:	2778															None: NO DI Water: H ₂ O	
Project Location:	Lea County, NM	Due Date:	5 Day HR TAT													Cool: Cool MeOH: Me	
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO ₃ : HN	
POMO #:	21480109															H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT	Terry Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														H ₃ PO ₄ : HP	
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:														NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:														Zn Acetate+NaOH: Zn	
Total Containers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:														NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	TPH -NM	Chloride	BTEX-NM	Hold	24 Hr Rtd								Sample Comments
HA-1	S	2.6.25	9:30	0.5	Grab/	1	X	X	X										Incident Number nAPP2500624157
HA-1	S	2.6.25	9:35	1	Grab/	1	X	X	X										
HA-2	S	2.6.25	9:40	0.5	Grab/	1	X	X	X										
HA-2	S	2.6.25	9:45	1	Grab/	1	X	X	X										
HA-3	S	2.6.25	9:50	0.5	Grab/	1	X	X	X										
HA-3	S	2.6.25	9:55	1	Grab/	1	X	X	X										
HA-4	S	2.6.25	10:00	0.5	Grab/	1	X	X	X										
HA-4	S	2.6.25	10:05	1	Grab/	1	X	X	X										
HA-5	S	2.6.25	10:10	0.5	Grab/	1	X	X	X										

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 At Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: Hg: 1631 / 245 1 / 14 / 0 1 / 4 / 1

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

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<i>[Signature]</i>	<i>[Signature]</i>	2/2/2020	<i>[Signature]</i>	<i>[Signature]</i>	2/2/2020



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Page 2 of 2

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPX Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: _____ Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	
---	--

Project Name:		Seawolf 42 CTB-1		Turn Around		Pres. Code		ANALYSIS REQUEST																Preservative Codes			
Project Number:		2778		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																				None: NO DI Water: H ₂ O			
Project Location:		Lea County, NM		Due Date:		5 Day HR TAT																		Cool: Cool MeOH: Me			
Sampler's Name:		Gilbert Moreno		FAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN			
POWOW #:		21480109																						H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No																		H ₃ PO ₄ : HP	
Samples Received Intact:		Yes No		Thermometer ID:																				NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes No N/A		Correction Factor:																				Na ₂ S ₂ O ₅ : NaSO ₃			
Sample Custody Seals:		Yes No N/A		Temperature Reading:																				Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush																	Sample Comments
HA-5	S	2.6.25	10:15	1	Grab/	1	X	X	X																			Incident Number
HA-6	S	2.6.25	10:20	0.5	Grab/	1	X	X	X																			nAPP2500624157
HA-6	S	2.6.25	10:25	1	Grab/	1	X	X	X																			

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metals(s) to be analyzed

Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	2/9/2020	<i>[Signature]</i>	<i>[Signature]</i>	2/9/2020



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ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Generated 4/23/2025 10:08:53 AM

JOB DESCRIPTION

Seawolf 12 CTB 1
Lea County, NM

JOB NUMBER

890-7984-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



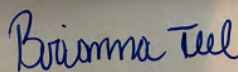
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Job Notes

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
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Laboratory Job ID: 890-7984-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low 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: Earth Systems Response and Restoration
Project: Seawolf 12 CTB 1

Job ID: 890-7984-1

Job ID: 890-7984-1

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Job Narrative 890-7984-1

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

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

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

Receipt

The samples were received on 4/17/2025 2:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-1 (890-7984-1), HA-2 (890-7984-2), HA-7 (890-7984-3), HA-7 (890-7984-4), HA-7 (890-7984-5), HA-3 (890-7984-6) and HA-4 (890-7984-7).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-1 (890-7984-1), HA-7 (890-7984-5), (CCV 880-108276/30), (CCV 880-108276/73), (LCS 880-108161/2-A), (LCSD 880-108161/3-A), (890-7984-A-1-D MS) and (890-7984-A-1-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108161 and analytical batch 880-108276 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-108161 and analytical batch 880-108276 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28). Since only an acceptable LCS or LCSD is required per the method, the LCS shows recovery for the batch therefore the data has been qualified and reported.

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.

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7984-1

Date Collected: 04/17/25 11:00

Matrix: Solid

Date Received: 04/17/25 14:17

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/25 09:35	04/21/25 22:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/25 09:35	04/21/25 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/21/25 09:35	04/21/25 22:40	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/21/25 09:35	04/21/25 22:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/21/25 22:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/22/25 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/25 19:33	04/22/25 20:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U * *1 F1	50.0		mg/Kg		04/20/25 19:33	04/22/25 20:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/25 19:33	04/22/25 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130	04/20/25 19:33	04/22/25 20:54	1
o-Terphenyl	63	S1-	70 - 130	04/20/25 19:33	04/22/25 20:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		10.1		mg/Kg			04/21/25 12:11	1

Client Sample ID: HA-2

Lab Sample ID: 890-7984-2

Date Collected: 04/17/25 11:05

Matrix: Solid

Date Received: 04/17/25 14:17

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/25 09:35	04/21/25 23:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/25 09:35	04/21/25 23:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/25 09:35	04/21/25 23:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/25 09:35	04/21/25 23:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/25 09:35	04/21/25 23:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/25 09:35	04/21/25 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/21/25 09:35	04/21/25 23:00	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Client Sample ID: HA-2

Lab Sample ID: 890-7984-2

Date Collected: 04/17/25 11:05

Matrix: Solid

Date Received: 04/17/25 14:17

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	04/21/25 09:35	04/21/25 23:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/21/25 23:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/22/25 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/25 19:33	04/22/25 21:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	49.9		mg/Kg		04/20/25 19:33	04/22/25 21:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/25 19:33	04/22/25 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				04/20/25 19:33	04/22/25 21:56	1
o-Terphenyl	74		70 - 130				04/20/25 19:33	04/22/25 21:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		10.0		mg/Kg			04/21/25 12:33	1

Client Sample ID: HA-7

Lab Sample ID: 890-7984-3

Date Collected: 04/17/25 11:10

Matrix: Solid

Date Received: 04/17/25 14:17

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:35	04/21/25 23:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:35	04/21/25 23:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:35	04/21/25 23:21	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/21/25 09:35	04/21/25 23:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:35	04/21/25 23:21	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/21/25 09:35	04/21/25 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/21/25 09:35	04/21/25 23:21	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/21/25 09:35	04/21/25 23:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/21/25 23:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/22/25 22:16	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-7984-3

Date Collected: 04/17/25 11:10

Matrix: Solid

Date Received: 04/17/25 14:17

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/20/25 19:33	04/22/25 22:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U ** *1	49.8		mg/Kg		04/20/25 19:33	04/22/25 22:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/20/25 19:33	04/22/25 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				04/20/25 19:33	04/22/25 22:16	1
o-Terphenyl	78		70 - 130				04/20/25 19:33	04/22/25 22:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		10.0		mg/Kg			04/21/25 12:40	1

Client Sample ID: HA-7

Lab Sample ID: 890-7984-4

Date Collected: 04/17/25 11:15

Matrix: Solid

Date Received: 04/17/25 14:17

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/21/25 09:35	04/21/25 23:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/21/25 09:35	04/21/25 23:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/21/25 09:35	04/21/25 23:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/21/25 09:35	04/21/25 23:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/21/25 09:35	04/21/25 23:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/21/25 09:35	04/21/25 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/21/25 09:35	04/21/25 23:42	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/21/25 09:35	04/21/25 23:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/21/25 23:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/22/25 22:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/25 19:33	04/22/25 22:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		04/20/25 19:33	04/22/25 22:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/25 19:33	04/22/25 22:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				04/20/25 19:33	04/22/25 22:37	1
o-Terphenyl	78		70 - 130				04/20/25 19:33	04/22/25 22:37	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Client Sample ID: HA-7

Lab Sample ID: 890-7984-4

Date Collected: 04/17/25 11:15

Matrix: Solid

Date Received: 04/17/25 14:17

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		9.94		mg/Kg			04/21/25 12:48	1

Client Sample ID: HA-7

Lab Sample ID: 890-7984-5

Date Collected: 04/17/25 11:20

Matrix: Solid

Date Received: 04/17/25 14:17

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/21/25 09:35	04/22/25 00:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/21/25 09:35	04/22/25 00:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/21/25 09:35	04/22/25 00:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/21/25 09:35	04/22/25 00:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/21/25 09:35	04/22/25 00:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/21/25 09:35	04/22/25 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/21/25 09:35	04/22/25 00:02	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/21/25 09:35	04/22/25 00:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/22/25 00:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/22/25 22:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/20/25 19:33	04/22/25 22:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+ *1	49.7		mg/Kg		04/20/25 19:33	04/22/25 22:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/20/25 19:33	04/22/25 22:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				04/20/25 19:33	04/22/25 22:57	1
o-Terphenyl	69	S1-	70 - 130				04/20/25 19:33	04/22/25 22:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		9.92		mg/Kg			04/21/25 12:55	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Client Sample ID: HA-3

Lab Sample ID: 890-7984-6

Date Collected: 04/17/25 11:25

Matrix: Solid

Date Received: 04/17/25 14:17

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/22/25 00:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/22/25 00:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/22/25 00:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/21/25 09:35	04/22/25 00:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/22/25 00:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/21/25 09:35	04/22/25 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/21/25 09:35	04/22/25 00:22	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/21/25 09:35	04/22/25 00:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/22/25 00:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/22/25 23:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/25 19:33	04/22/25 23:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		04/20/25 19:33	04/22/25 23:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/25 19:33	04/22/25 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	04/20/25 19:33	04/22/25 23:18	1
o-Terphenyl	74		70 - 130	04/20/25 19:33	04/22/25 23:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		9.94		mg/Kg			04/21/25 13:03	1

Client Sample ID: HA-4

Lab Sample ID: 890-7984-7

Date Collected: 04/17/25 11:30

Matrix: Solid

Date Received: 04/17/25 14:17

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/25 09:35	04/22/25 00:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/25 09:35	04/22/25 00:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/25 09:35	04/22/25 00:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/25 09:35	04/22/25 00:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/25 09:35	04/22/25 00:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/25 09:35	04/22/25 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/21/25 09:35	04/22/25 00:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Client Sample ID: HA-4

Lab Sample ID: 890-7984-7

Date Collected: 04/17/25 11:30

Matrix: Solid

Date Received: 04/17/25 14:17

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	04/21/25 09:35	04/22/25 00:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/22/25 00:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/22/25 23:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/20/25 19:33	04/22/25 23:38	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+ *1	49.7		mg/Kg		04/20/25 19:33	04/22/25 23:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/20/25 19:33	04/22/25 23:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				04/20/25 19:33	04/22/25 23:38	1
o-Terphenyl	80		70 - 130				04/20/25 19:33	04/22/25 23:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.1		9.96		mg/Kg			04/21/25 13:10	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

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)
890-7984-1	HA-1	106	101
890-7984-1 MS	HA-1	103	100
890-7984-1 MSD	HA-1	105	101
890-7984-2	HA-2	99	101
890-7984-3	HA-7	105	97
890-7984-4	HA-7	103	98
890-7984-5	HA-7	103	103
890-7984-6	HA-3	113	102
890-7984-7	HA-4	100	98
LCS 880-108198/1-A	Lab Control Sample	97	100
LCSD 880-108198/2-A	Lab Control Sample Dup	99	99
MB 880-108140/5-A	Method Blank	98	93
MB 880-108198/5-A	Method Blank	102	94
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7984-1	HA-1	61 S1-	63 S1-
890-7984-1 MS	HA-1	69 S1-	65 S1-
890-7984-1 MSD	HA-1	73	68 S1-
890-7984-2	HA-2	72	74
890-7984-3	HA-7	75	78
890-7984-4	HA-7	75	78
890-7984-5	HA-7	66 S1-	69 S1-
890-7984-6	HA-3	73	74
890-7984-7	HA-4	79	80
LCS 880-108161/2-A	Lab Control Sample	18 S1-	14 S1-
LCSD 880-108161/3-A	Lab Control Sample Dup	25 S1-	19 S1-
MB 880-108161/1-A	Method Blank	79	80
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-108140/5-A

Matrix: Solid

Analysis Batch: 108167

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:19	04/21/25 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:19	04/21/25 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:19	04/21/25 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/18/25 16:19	04/21/25 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:19	04/21/25 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/18/25 16:19	04/21/25 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/18/25 16:19	04/21/25 11:42	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/18/25 16:19	04/21/25 11:42	1

Lab Sample ID: MB 880-108198/5-A

Matrix: Solid

Analysis Batch: 108167

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/21/25 09:35	04/21/25 22:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:35	04/21/25 22:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/21/25 09:35	04/21/25 22:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/21/25 09:35	04/21/25 22:18	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/21/25 09:35	04/21/25 22:18	1

Lab Sample ID: LCS 880-108198/1-A

Matrix: Solid

Analysis Batch: 108167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09254		mg/Kg		93	70 - 130
Toluene	0.100	0.08198		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08655		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1744		mg/Kg		87	70 - 130
o-Xylene	0.100	0.09113		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-108198/2-A

Matrix: Solid

Analysis Batch: 108167

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108198

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09238		mg/Kg		92	70 - 130	0	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-108198/2-A

Matrix: Solid

Analysis Batch: 108167

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108198

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08327		mg/Kg		83	70 - 130	2	35
Ethylbenzene	0.100	0.08822		mg/Kg		88	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1791		mg/Kg		90	70 - 130	3	35
o-Xylene	0.100	0.09354		mg/Kg		94	70 - 130	3	35

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

Lab Sample ID: 890-7984-1 MS

Matrix: Solid

Analysis Batch: 108167

Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 108198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08775		mg/Kg		88	70 - 130
Toluene	<0.00200	U	0.100	0.07913		mg/Kg		79	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08328		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1683		mg/Kg		84	70 - 130
o-Xylene	<0.00200	U	0.100	0.08670		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-7984-1 MSD

Matrix: Solid

Analysis Batch: 108167

Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 108198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08724		mg/Kg		87	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.07794		mg/Kg		78	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.08196		mg/Kg		82	70 - 130	2	35
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1657		mg/Kg		83	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.08571		mg/Kg		86	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-108161/1-A

Matrix: Solid

Analysis Batch: 108276

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/25 19:33	04/22/25 19:52	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-108161/1-A

Matrix: Solid

Analysis Batch: 108276

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/25 19:33	04/22/25 19:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/25 19:33	04/22/25 19:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				04/20/25 19:33	04/22/25 19:52	1
o-Terphenyl	80		70 - 130				04/20/25 19:33	04/22/25 19:52	1

Lab Sample ID: LCS 880-108161/2-A

Matrix: Solid

Analysis Batch: 108276

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1053		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1070		mg/Kg		107	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	18	S1-	70 - 130				
o-Terphenyl	14	S1-	70 - 130				

Lab Sample ID: LCSD 880-108161/3-A

Matrix: Solid

Analysis Batch: 108276

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108161

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1291		mg/Kg		129	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	1448	*+ *1	mg/Kg		145	70 - 130	30	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	25	S1-	70 - 130						
o-Terphenyl	19	S1-	70 - 130						

Lab Sample ID: 890-7984-1 MS

Matrix: Solid

Analysis Batch: 108276

Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 108161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	984.9		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1 F1	999	615.8	F1	mg/Kg		62	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	69	S1-	70 - 130						
o-Terphenyl	65	S1-	70 - 130						

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

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

Lab Sample ID: 890-7984-1 MSD

Matrix: Solid

Analysis Batch: 108276

Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 108161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	871.5		mg/Kg		87	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1 F1	999	660.0	F1	mg/Kg		66	70 - 130	7	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	73		70 - 130								
o-Terphenyl	68	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108136/1-A

Matrix: Solid

Analysis Batch: 108141

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/21/25 09:33	1

Lab Sample ID: LCS 880-108136/2-A

Matrix: Solid

Analysis Batch: 108141

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	269.5		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-108136/3-A

Matrix: Solid

Analysis Batch: 108141

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	267.2		mg/Kg		107	90 - 110	1	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

GC VOA

Prep Batch: 108140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-108140/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 108167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7984-1	HA-1	Total/NA	Solid	8021B	108198
890-7984-2	HA-2	Total/NA	Solid	8021B	108198
890-7984-3	HA-7	Total/NA	Solid	8021B	108198
890-7984-4	HA-7	Total/NA	Solid	8021B	108198
890-7984-5	HA-7	Total/NA	Solid	8021B	108198
890-7984-6	HA-3	Total/NA	Solid	8021B	108198
890-7984-7	HA-4	Total/NA	Solid	8021B	108198
MB 880-108140/5-A	Method Blank	Total/NA	Solid	8021B	108140
MB 880-108198/5-A	Method Blank	Total/NA	Solid	8021B	108198
LCS 880-108198/1-A	Lab Control Sample	Total/NA	Solid	8021B	108198
LCSD 880-108198/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108198
890-7984-1 MS	HA-1	Total/NA	Solid	8021B	108198
890-7984-1 MSD	HA-1	Total/NA	Solid	8021B	108198

Prep Batch: 108198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7984-1	HA-1	Total/NA	Solid	5035	
890-7984-2	HA-2	Total/NA	Solid	5035	
890-7984-3	HA-7	Total/NA	Solid	5035	
890-7984-4	HA-7	Total/NA	Solid	5035	
890-7984-5	HA-7	Total/NA	Solid	5035	
890-7984-6	HA-3	Total/NA	Solid	5035	
890-7984-7	HA-4	Total/NA	Solid	5035	
MB 880-108198/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108198/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108198/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7984-1 MS	HA-1	Total/NA	Solid	5035	
890-7984-1 MSD	HA-1	Total/NA	Solid	5035	

Analysis Batch: 108331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7984-1	HA-1	Total/NA	Solid	Total BTEX	
890-7984-2	HA-2	Total/NA	Solid	Total BTEX	
890-7984-3	HA-7	Total/NA	Solid	Total BTEX	
890-7984-4	HA-7	Total/NA	Solid	Total BTEX	
890-7984-5	HA-7	Total/NA	Solid	Total BTEX	
890-7984-6	HA-3	Total/NA	Solid	Total BTEX	
890-7984-7	HA-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 108161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7984-1	HA-1	Total/NA	Solid	8015NM Prep	
890-7984-2	HA-2	Total/NA	Solid	8015NM Prep	
890-7984-3	HA-7	Total/NA	Solid	8015NM Prep	
890-7984-4	HA-7	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 108161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7984-5	HA-7	Total/NA	Solid	8015NM Prep	
890-7984-6	HA-3	Total/NA	Solid	8015NM Prep	
890-7984-7	HA-4	Total/NA	Solid	8015NM Prep	
MB 880-108161/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108161/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108161/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7984-1 MS	HA-1	Total/NA	Solid	8015NM Prep	
890-7984-1 MSD	HA-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 108276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7984-1	HA-1	Total/NA	Solid	8015B NM	108161
890-7984-2	HA-2	Total/NA	Solid	8015B NM	108161
890-7984-3	HA-7	Total/NA	Solid	8015B NM	108161
890-7984-4	HA-7	Total/NA	Solid	8015B NM	108161
890-7984-5	HA-7	Total/NA	Solid	8015B NM	108161
890-7984-6	HA-3	Total/NA	Solid	8015B NM	108161
890-7984-7	HA-4	Total/NA	Solid	8015B NM	108161
MB 880-108161/1-A	Method Blank	Total/NA	Solid	8015B NM	108161
LCS 880-108161/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108161
LCSD 880-108161/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108161
890-7984-1 MS	HA-1	Total/NA	Solid	8015B NM	108161
890-7984-1 MSD	HA-1	Total/NA	Solid	8015B NM	108161

Analysis Batch: 108411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7984-1	HA-1	Total/NA	Solid	8015 NM	
890-7984-2	HA-2	Total/NA	Solid	8015 NM	
890-7984-3	HA-7	Total/NA	Solid	8015 NM	
890-7984-4	HA-7	Total/NA	Solid	8015 NM	
890-7984-5	HA-7	Total/NA	Solid	8015 NM	
890-7984-6	HA-3	Total/NA	Solid	8015 NM	
890-7984-7	HA-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 108136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7984-1	HA-1	Soluble	Solid	DI Leach	
890-7984-2	HA-2	Soluble	Solid	DI Leach	
890-7984-3	HA-7	Soluble	Solid	DI Leach	
890-7984-4	HA-7	Soluble	Solid	DI Leach	
890-7984-5	HA-7	Soluble	Solid	DI Leach	
890-7984-6	HA-3	Soluble	Solid	DI Leach	
890-7984-7	HA-4	Soluble	Solid	DI Leach	
MB 880-108136/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108136/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108136/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

HPLC/IC

Analysis Batch: 108141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7984-1	HA-1	Soluble	Solid	300.0	108136
890-7984-2	HA-2	Soluble	Solid	300.0	108136
890-7984-3	HA-7	Soluble	Solid	300.0	108136
890-7984-4	HA-7	Soluble	Solid	300.0	108136
890-7984-5	HA-7	Soluble	Solid	300.0	108136
890-7984-6	HA-3	Soluble	Solid	300.0	108136
890-7984-7	HA-4	Soluble	Solid	300.0	108136
MB 880-108136/1-A	Method Blank	Soluble	Solid	300.0	108136
LCS 880-108136/2-A	Lab Control Sample	Soluble	Solid	300.0	108136
LCSD 880-108136/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108136

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Client Sample ID: HA-1

Lab Sample ID: 890-7984-1

Date Collected: 04/17/25 11:00

Matrix: Solid

Date Received: 04/17/25 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108167	04/21/25 22:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108331	04/21/25 22:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			108411	04/22/25 20:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	108161	04/20/25 19:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108276	04/22/25 20:54	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	108136	04/18/25 15:49	SA	EET MID
Soluble	Analysis	300.0		1			108141	04/21/25 12:11	SMC	EET MID

Client Sample ID: HA-2

Lab Sample ID: 890-7984-2

Date Collected: 04/17/25 11:05

Matrix: Solid

Date Received: 04/17/25 14:17

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	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108167	04/21/25 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108331	04/21/25 23:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			108411	04/22/25 21:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	108161	04/20/25 19:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108276	04/22/25 21:56	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	108136	04/18/25 15:49	SA	EET MID
Soluble	Analysis	300.0		1			108141	04/21/25 12:33	SMC	EET MID

Client Sample ID: HA-7

Lab Sample ID: 890-7984-3

Date Collected: 04/17/25 11:10

Matrix: Solid

Date Received: 04/17/25 14:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108167	04/21/25 23:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108331	04/21/25 23:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			108411	04/22/25 22:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	108161	04/20/25 19:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108276	04/22/25 22:16	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	108136	04/18/25 15:49	SA	EET MID
Soluble	Analysis	300.0		1			108141	04/21/25 12:40	SMC	EET MID

Client Sample ID: HA-7

Lab Sample ID: 890-7984-4

Date Collected: 04/17/25 11:15

Matrix: Solid

Date Received: 04/17/25 14:17

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	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108167	04/21/25 23:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108331	04/21/25 23:42	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Client Sample ID: HA-7**Lab Sample ID: 890-7984-4****Date Collected: 04/17/25 11:15****Matrix: Solid****Date Received: 04/17/25 14:17**

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			108411	04/22/25 22:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108161	04/20/25 19:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108276	04/22/25 22:37	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	108136	04/18/25 15:49	SA	EET MID
Soluble	Analysis	300.0		1			108141	04/21/25 12:48	SMC	EET MID

Client Sample ID: HA-7**Lab Sample ID: 890-7984-5****Date Collected: 04/17/25 11:20****Matrix: Solid****Date Received: 04/17/25 14:17**

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	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108167	04/22/25 00:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108331	04/22/25 00:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			108411	04/22/25 22:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	108161	04/20/25 19:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108276	04/22/25 22:57	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	108136	04/18/25 15:49	SA	EET MID
Soluble	Analysis	300.0		1			108141	04/21/25 12:55	SMC	EET MID

Client Sample ID: HA-3**Lab Sample ID: 890-7984-6****Date Collected: 04/17/25 11:25****Matrix: Solid****Date Received: 04/17/25 14:17**

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	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108167	04/22/25 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108331	04/22/25 00:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			108411	04/22/25 23:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108161	04/20/25 19:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108276	04/22/25 23:18	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	108136	04/18/25 15:49	SA	EET MID
Soluble	Analysis	300.0		1			108141	04/21/25 13:03	SMC	EET MID

Client Sample ID: HA-4**Lab Sample ID: 890-7984-7****Date Collected: 04/17/25 11:30****Matrix: Solid****Date Received: 04/17/25 14:17**

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	108198	04/21/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108167	04/22/25 00:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108331	04/22/25 00:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			108411	04/22/25 23:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	108161	04/20/25 19:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108276	04/22/25 23:38	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Client Sample ID: HA-4
Date Collected: 04/17/25 11:30
Date Received: 04/17/25 14:17

Lab Sample ID: 890-7984-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	108136	04/18/25 15:49	SA	EET MID
Soluble	Analysis	300.0		1			108141	04/21/25 13:10	SMC	EET MID

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

- 1
- 2
- 3
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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

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: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-7984-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7984-1	HA-1	Solid	04/17/25 11:00	04/17/25 14:17	2
890-7984-2	HA-2	Solid	04/17/25 11:05	04/17/25 14:17	2
890-7984-3	HA-7	Solid	04/17/25 11:10	04/17/25 14:17	0.5
890-7984-4	HA-7	Solid	04/17/25 11:15	04/17/25 14:17	1
890-7984-5	HA-7	Solid	04/17/25 11:20	04/17/25 14:17	2
890-7984-6	HA-3	Solid	04/17/25 11:25	04/17/25 14:17	2
890-7984-7	HA-4	Solid	04/17/25 11:30	04/17/25 14:17	2

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Chain of Custody

Environment Testing
Xenco



890-7984 Chain of Custody

[illegible]

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xenco.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0			14.17 4/18			
3						

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7984-1

SDG Number: Lea County, NM

Login Number: 7984

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7984-1

SDG Number: Lea County, NM

Login Number: 7984

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 04/17/25 08:56 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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Generated 6/6/2025 2:44:37 PM

JOB DESCRIPTION

Seawolf 12 CTB 1
Lea County, NM

JOB NUMBER

890-8263-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

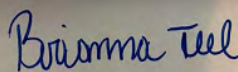
Eurofins Carlsbad

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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6/6/2025 2:44:37 PM

Authorized for release by
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Laboratory Job ID: 890-8263-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, 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: Earth Systems Response and Restoration
Project: Seawolf 12 CTB 1

Job ID: 890-8263-1

Job ID: 890-8263-1**Eurofins Carlsbad**

Job Narrative
890-8263-1

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

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

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

Receipt

The samples were received on 6/3/2025 11:48 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 -3.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (890-8263-1), CS-2 (890-8263-2), CS-3 (890-8263-3), CS-4 (890-8263-4), SW-1 (890-8263-5), SW-2 (890-8263-6) and SW-3 (890-8263-7).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111501 and analytical batch 880-111564 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-3 (890-8263-7). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111509 and analytical batch 880-111525 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Client Sample ID: CS-1

Lab Sample ID: 890-8263-1

Date Collected: 06/03/25 08:25

Matrix: Solid

Date Received: 06/03/25 11:48

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/04/25 09:42	06/04/25 13:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/04/25 09:42	06/04/25 13:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/04/25 09:42	06/04/25 13:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/04/25 09:42	06/04/25 13:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/04/25 09:42	06/04/25 13:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/04/25 09:42	06/04/25 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	06/04/25 09:42	06/04/25 13:31	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/04/25 09:42	06/04/25 13:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/04/25 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/05/25 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	50.1		mg/Kg		06/04/25 12:24	06/05/25 09:34	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/04/25 12:24	06/05/25 09:34	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/04/25 12:24	06/05/25 09:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	06/04/25 12:24	06/05/25 09:34	1
o-Terphenyl	121		70 - 130	06/04/25 12:24	06/05/25 09:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156	F1	9.90		mg/Kg			06/04/25 22:37	1

Client Sample ID: CS-2

Lab Sample ID: 890-8263-2

Date Collected: 06/03/25 08:35

Matrix: Solid

Date Received: 06/03/25 11:48

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/04/25 09:42	06/04/25 13:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/04/25 09:42	06/04/25 13:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/04/25 09:42	06/04/25 13:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/04/25 09:42	06/04/25 13:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/04/25 09:42	06/04/25 13:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/04/25 09:42	06/04/25 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	06/04/25 09:42	06/04/25 13:52	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Client Sample ID: CS-2

Lab Sample ID: 890-8263-2

Date Collected: 06/03/25 08:35

Matrix: Solid

Date Received: 06/03/25 11:48

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	06/04/25 09:42	06/04/25 13:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/04/25 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/05/25 10:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/04/25 12:24	06/05/25 10:55	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/04/25 12:24	06/05/25 10:55	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/04/25 12:24	06/05/25 10:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				06/04/25 12:24	06/05/25 10:55	1
o-Terphenyl	116		70 - 130				06/04/25 12:24	06/05/25 10:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.1		10.0		mg/Kg			06/04/25 22:59	1

Client Sample ID: CS-3

Lab Sample ID: 890-8263-3

Date Collected: 06/03/25 08:45

Matrix: Solid

Date Received: 06/03/25 11:48

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/04/25 09:42	06/04/25 14:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/04/25 09:42	06/04/25 14:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/04/25 09:42	06/04/25 14:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/04/25 09:42	06/04/25 14:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/04/25 09:42	06/04/25 14:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/04/25 09:42	06/04/25 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	06/04/25 09:42	06/04/25 14:12	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/04/25 09:42	06/04/25 14:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/04/25 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/05/25 11:10	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Client Sample ID: CS-3

Lab Sample ID: 890-8263-3

Date Collected: 06/03/25 08:45

Matrix: Solid

Date Received: 06/03/25 11:48

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/04/25 12:24	06/05/25 11:10	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/04/25 12:24	06/05/25 11:10	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/04/25 12:24	06/05/25 11:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				06/04/25 12:24	06/05/25 11:10	1
o-Terphenyl	118		70 - 130				06/04/25 12:24	06/05/25 11:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		9.98		mg/Kg			06/04/25 23:06	1

Client Sample ID: CS-4

Lab Sample ID: 890-8263-4

Date Collected: 06/03/25 08:55

Matrix: Solid

Date Received: 06/03/25 11:48

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 14:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 14:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 14:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/04/25 09:42	06/04/25 14:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 14:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/04/25 09:42	06/04/25 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				06/04/25 09:42	06/04/25 14:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/04/25 09:42	06/04/25 14:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/04/25 14:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/05/25 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/04/25 12:24	06/05/25 11:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/04/25 12:24	06/05/25 11:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/04/25 12:24	06/05/25 11:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				06/04/25 12:24	06/05/25 11:26	1
o-Terphenyl	119		70 - 130				06/04/25 12:24	06/05/25 11:26	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Client Sample ID: CS-4

Date Collected: 06/03/25 08:55

Date Received: 06/03/25 11:48

Sample Depth: 2

Lab Sample ID: 890-8263-4

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		10.0		mg/Kg			06/04/25 23:28	1

Client Sample ID: SW-1

Date Collected: 06/03/25 09:05

Date Received: 06/03/25 11:48

Sample Depth: 0-2

Lab Sample ID: 890-8263-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/04/25 09:42	06/04/25 14:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/04/25 09:42	06/04/25 14:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/04/25 09:42	06/04/25 14:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/04/25 09:42	06/04/25 14:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/04/25 09:42	06/04/25 14:53	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/04/25 09:42	06/04/25 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				06/04/25 09:42	06/04/25 14:53	1
1,4-Difluorobenzene (Surr)	81		70 - 130				06/04/25 09:42	06/04/25 14:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/04/25 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/05/25 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 11:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 11:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 11:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				06/04/25 12:24	06/05/25 11:43	1
o-Terphenyl	114		70 - 130				06/04/25 12:24	06/05/25 11:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		10.1		mg/Kg			06/04/25 23:35	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Client Sample ID: SW-2

Lab Sample ID: 890-8263-6

Date Collected: 06/03/25 09:15

Matrix: Solid

Date Received: 06/03/25 11:48

Sample Depth: 0-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 16:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 16:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 16:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/04/25 09:42	06/04/25 16:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 16:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/04/25 09:42	06/04/25 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/04/25 09:42	06/04/25 16:17	1
1,4-Difluorobenzene (Surr)	84		70 - 130	06/04/25 09:42	06/04/25 16:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/04/25 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/05/25 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 11:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 11:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	06/04/25 12:24	06/05/25 11:59	1
o-Terphenyl	118		70 - 130	06/04/25 12:24	06/05/25 11:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	212		10.0		mg/Kg			06/04/25 23:42	1

Client Sample ID: SW-3

Lab Sample ID: 890-8263-7

Date Collected: 06/03/25 09:25

Matrix: Solid

Date Received: 06/03/25 11:48

Sample Depth: 0-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/04/25 09:42	06/04/25 16:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/04/25 09:42	06/04/25 16:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/04/25 09:42	06/04/25 16:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/04/25 09:42	06/04/25 16:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/04/25 09:42	06/04/25 16:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/04/25 09:42	06/04/25 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	06/04/25 09:42	06/04/25 16:38	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Client Sample ID: SW-3

Lab Sample ID: 890-8263-7

Date Collected: 06/03/25 09:25

Matrix: Solid

Date Received: 06/03/25 11:48

Sample Depth: 0-2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	06/04/25 09:42	06/04/25 16:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/04/25 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/05/25 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/04/25 12:24	06/05/25 12:15	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/04/25 12:24	06/05/25 12:15	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/04/25 12:24	06/05/25 12:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				06/04/25 12:24	06/05/25 12:15	1
o-Terphenyl	133	S1+	70 - 130				06/04/25 12:24	06/05/25 12:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		9.98		mg/Kg			06/04/25 23:49	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

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)
890-8263-1	CS-1	117	102
890-8263-2	CS-2	86	97
890-8263-3	CS-3	91	97
890-8263-4	CS-4	95	96
890-8263-5	SW-1	94	81
890-8263-6	SW-2	98	84
890-8263-7	SW-3	92	95
LCS 880-111474/1-A	Lab Control Sample	97	97
LCSD 880-111474/2-A	Lab Control Sample Dup	94	102
MB 880-111474/5-A	Method Blank	92	100

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)
890-8263-1	CS-1	124	121
890-8263-1 MS	CS-1	120	121
890-8263-1 MSD	CS-1	122	109
890-8263-2	CS-2	121	116
890-8263-3	CS-3	123	118
890-8263-4	CS-4	124	119
890-8263-5	SW-1	121	114
890-8263-6	SW-2	124	118
890-8263-7	SW-3	141 S1+	133 S1+
LCS 880-111501/2-A	Lab Control Sample	87	90
LCSD 880-111501/3-A	Lab Control Sample Dup	90	92
MB 880-111501/1-A	Method Blank	128	122

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-111474/5-A

Matrix: Solid

Analysis Batch: 111458

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/04/25 09:42	06/04/25 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/25 09:42	06/04/25 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/04/25 09:42	06/04/25 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	06/04/25 09:42	06/04/25 11:27	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/04/25 09:42	06/04/25 11:27	1

Lab Sample ID: LCS 880-111474/1-A

Matrix: Solid

Analysis Batch: 111458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111474

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1120		mg/Kg		112	70 - 130
Toluene	0.100	0.1030		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1058		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2026		mg/Kg		101	70 - 130
o-Xylene	0.100	0.09716		mg/Kg		97	70 - 130

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

Lab Sample ID: LCSD 880-111474/2-A

Matrix: Solid

Analysis Batch: 111458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 111474

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1035		mg/Kg		104	70 - 130	8	35
Toluene	0.100	0.09473		mg/Kg		95	70 - 130	8	35
Ethylbenzene	0.100	0.09471		mg/Kg		95	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1811		mg/Kg		91	70 - 130	11	35
o-Xylene	0.100	0.08724		mg/Kg		87	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-111501/1-A

Matrix: Solid

Analysis Batch: 111564

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 04:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 04:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 04:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				06/04/25 12:24	06/05/25 04:09	1
o-Terphenyl	122		70 - 130				06/04/25 12:24	06/05/25 04:09	1

Lab Sample ID: LCS 880-111501/2-A

Matrix: Solid

Analysis Batch: 111564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	811.2		mg/Kg		81	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	875.0		mg/Kg		88	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	87		70 - 130					
o-Terphenyl	90		70 - 130					

Lab Sample ID: LCSD 880-111501/3-A

Matrix: Solid

Analysis Batch: 111564

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 111501

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	831.5		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	906.0		mg/Kg		91	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	90		70 - 130						
o-Terphenyl	92		70 - 130						

Lab Sample ID: 890-8263-1 MS

Matrix: Solid

Analysis Batch: 111564

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 111501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	999	765.8		mg/Kg		77	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.1	U	999	888.1		mg/Kg		87	70 - 130	

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

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

Lab Sample ID: 890-8263-1 MS

Matrix: Solid

Analysis Batch: 111564

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 111501

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 890-8263-1 MSD

Matrix: Solid

Analysis Batch: 111564

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 111501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	999	673.7	F1	mg/Kg		67	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.1	U	999	737.8		mg/Kg		72	70 - 130	18	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	109		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111509/1-A

Matrix: Solid

Analysis Batch: 111525

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/04/25 20:33	1

Lab Sample ID: LCS 880-111509/2-A

Matrix: Solid

Analysis Batch: 111525

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.7		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-111509/3-A

Matrix: Solid

Analysis Batch: 111525

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	254.4		mg/Kg		102	90 - 110	5	20

Lab Sample ID: 890-8263-1 MS

Matrix: Solid

Analysis Batch: 111525

Client Sample ID: CS-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	156	F1	248	483.1	F1	mg/Kg		132	90 - 110

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8263-1 MSD							Client Sample ID: CS-1					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 111525												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	156	F1	248	482.0	F1	mg/Kg		132	90 - 110	0	20	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 111458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8263-1	CS-1	Total/NA	Solid	8021B	111474
890-8263-2	CS-2	Total/NA	Solid	8021B	111474
890-8263-3	CS-3	Total/NA	Solid	8021B	111474
890-8263-4	CS-4	Total/NA	Solid	8021B	111474
890-8263-5	SW-1	Total/NA	Solid	8021B	111474
890-8263-6	SW-2	Total/NA	Solid	8021B	111474
890-8263-7	SW-3	Total/NA	Solid	8021B	111474
MB 880-111474/5-A	Method Blank	Total/NA	Solid	8021B	111474
LCS 880-111474/1-A	Lab Control Sample	Total/NA	Solid	8021B	111474
LCSD 880-111474/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111474

Prep Batch: 111474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8263-1	CS-1	Total/NA	Solid	5035	
890-8263-2	CS-2	Total/NA	Solid	5035	
890-8263-3	CS-3	Total/NA	Solid	5035	
890-8263-4	CS-4	Total/NA	Solid	5035	
890-8263-5	SW-1	Total/NA	Solid	5035	
890-8263-6	SW-2	Total/NA	Solid	5035	
890-8263-7	SW-3	Total/NA	Solid	5035	
MB 880-111474/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111474/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111474/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 111537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8263-1	CS-1	Total/NA	Solid	Total BTEX	
890-8263-2	CS-2	Total/NA	Solid	Total BTEX	
890-8263-3	CS-3	Total/NA	Solid	Total BTEX	
890-8263-4	CS-4	Total/NA	Solid	Total BTEX	
890-8263-5	SW-1	Total/NA	Solid	Total BTEX	
890-8263-6	SW-2	Total/NA	Solid	Total BTEX	
890-8263-7	SW-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 111501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8263-1	CS-1	Total/NA	Solid	8015NM Prep	
890-8263-2	CS-2	Total/NA	Solid	8015NM Prep	
890-8263-3	CS-3	Total/NA	Solid	8015NM Prep	
890-8263-4	CS-4	Total/NA	Solid	8015NM Prep	
890-8263-5	SW-1	Total/NA	Solid	8015NM Prep	
890-8263-6	SW-2	Total/NA	Solid	8015NM Prep	
890-8263-7	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-111501/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111501/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8263-1 MS	CS-1	Total/NA	Solid	8015NM Prep	
890-8263-1 MSD	CS-1	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 111564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8263-1	CS-1	Total/NA	Solid	8015B NM	111501
890-8263-2	CS-2	Total/NA	Solid	8015B NM	111501
890-8263-3	CS-3	Total/NA	Solid	8015B NM	111501
890-8263-4	CS-4	Total/NA	Solid	8015B NM	111501
890-8263-5	SW-1	Total/NA	Solid	8015B NM	111501
890-8263-6	SW-2	Total/NA	Solid	8015B NM	111501
890-8263-7	SW-3	Total/NA	Solid	8015B NM	111501
MB 880-111501/1-A	Method Blank	Total/NA	Solid	8015B NM	111501
LCS 880-111501/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111501
LCSD 880-111501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111501
890-8263-1 MS	CS-1	Total/NA	Solid	8015B NM	111501
890-8263-1 MSD	CS-1	Total/NA	Solid	8015B NM	111501

Analysis Batch: 111617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8263-1	CS-1	Total/NA	Solid	8015 NM	
890-8263-2	CS-2	Total/NA	Solid	8015 NM	
890-8263-3	CS-3	Total/NA	Solid	8015 NM	
890-8263-4	CS-4	Total/NA	Solid	8015 NM	
890-8263-5	SW-1	Total/NA	Solid	8015 NM	
890-8263-6	SW-2	Total/NA	Solid	8015 NM	
890-8263-7	SW-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 111509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8263-1	CS-1	Soluble	Solid	DI Leach	
890-8263-2	CS-2	Soluble	Solid	DI Leach	
890-8263-3	CS-3	Soluble	Solid	DI Leach	
890-8263-4	CS-4	Soluble	Solid	DI Leach	
890-8263-5	SW-1	Soluble	Solid	DI Leach	
890-8263-6	SW-2	Soluble	Solid	DI Leach	
890-8263-7	SW-3	Soluble	Solid	DI Leach	
MB 880-111509/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111509/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111509/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8263-1 MS	CS-1	Soluble	Solid	DI Leach	
890-8263-1 MSD	CS-1	Soluble	Solid	DI Leach	

Analysis Batch: 111525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8263-1	CS-1	Soluble	Solid	300.0	111509
890-8263-2	CS-2	Soluble	Solid	300.0	111509
890-8263-3	CS-3	Soluble	Solid	300.0	111509
890-8263-4	CS-4	Soluble	Solid	300.0	111509
890-8263-5	SW-1	Soluble	Solid	300.0	111509
890-8263-6	SW-2	Soluble	Solid	300.0	111509
890-8263-7	SW-3	Soluble	Solid	300.0	111509
MB 880-111509/1-A	Method Blank	Soluble	Solid	300.0	111509
LCS 880-111509/2-A	Lab Control Sample	Soluble	Solid	300.0	111509

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 111525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-111509/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111509
890-8263-1 MS	CS-1	Soluble	Solid	300.0	111509
890-8263-1 MSD	CS-1	Soluble	Solid	300.0	111509

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Client Sample ID: CS-1

Lab Sample ID: 890-8263-1

Date Collected: 06/03/25 08:25

Matrix: Solid

Date Received: 06/03/25 11:48

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	111474	06/04/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111458	06/04/25 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111537	06/04/25 13:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			111617	06/05/25 09:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	111501	06/04/25 12:24	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111564	06/05/25 09:34	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	111509	06/04/25 13:05	SI	EET MID
Soluble	Analysis	300.0		1			111525	06/04/25 22:37	CH	EET MID

Client Sample ID: CS-2

Lab Sample ID: 890-8263-2

Date Collected: 06/03/25 08:35

Matrix: Solid

Date Received: 06/03/25 11:48

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	111474	06/04/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111458	06/04/25 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111537	06/04/25 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			111617	06/05/25 10:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	111501	06/04/25 12:24	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111564	06/05/25 10:55	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	111509	06/04/25 13:05	SI	EET MID
Soluble	Analysis	300.0		1			111525	06/04/25 22:59	CH	EET MID

Client Sample ID: CS-3

Lab Sample ID: 890-8263-3

Date Collected: 06/03/25 08:45

Matrix: Solid

Date Received: 06/03/25 11:48

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	111474	06/04/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111458	06/04/25 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111537	06/04/25 14:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			111617	06/05/25 11:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	111501	06/04/25 12:24	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111564	06/05/25 11:10	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	111509	06/04/25 13:05	SI	EET MID
Soluble	Analysis	300.0		1			111525	06/04/25 23:06	CH	EET MID

Client Sample ID: CS-4

Lab Sample ID: 890-8263-4

Date Collected: 06/03/25 08:55

Matrix: Solid

Date Received: 06/03/25 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	111474	06/04/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111458	06/04/25 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111537	06/04/25 14:33	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Client Sample ID: CS-4

Date Collected: 06/03/25 08:55

Date Received: 06/03/25 11:48

Lab Sample ID: 890-8263-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			111617	06/05/25 11:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	111501	06/04/25 12:24	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111564	06/05/25 11:26	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	111509	06/04/25 13:05	SI	EET MID
Soluble	Analysis	300.0		1			111525	06/04/25 23:28	CH	EET MID

Client Sample ID: SW-1

Date Collected: 06/03/25 09:05

Date Received: 06/03/25 11:48

Lab Sample ID: 890-8263-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	111474	06/04/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111458	06/04/25 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111537	06/04/25 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			111617	06/05/25 11:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	111501	06/04/25 12:24	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111564	06/05/25 11:43	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	111509	06/04/25 13:05	SI	EET MID
Soluble	Analysis	300.0		1			111525	06/04/25 23:35	CH	EET MID

Client Sample ID: SW-2

Date Collected: 06/03/25 09:15

Date Received: 06/03/25 11:48

Lab Sample ID: 890-8263-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	111474	06/04/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111458	06/04/25 16:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111537	06/04/25 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			111617	06/05/25 11:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	111501	06/04/25 12:24	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111564	06/05/25 11:59	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	111509	06/04/25 13:05	SI	EET MID
Soluble	Analysis	300.0		1			111525	06/04/25 23:42	CH	EET MID

Client Sample ID: SW-3

Date Collected: 06/03/25 09:25

Date Received: 06/03/25 11:48

Lab Sample ID: 890-8263-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	111474	06/04/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111458	06/04/25 16:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111537	06/04/25 16:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			111617	06/05/25 12:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	111501	06/04/25 12:24	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111564	06/05/25 12:15	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Client Sample ID: SW-3
Date Collected: 06/03/25 09:25
Date Received: 06/03/25 11:48

Lab Sample ID: 890-8263-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	111509	06/04/25 13:05	SI	EET MID
Soluble	Analysis	300.0		1			111525	06/04/25 23:49	CH	EET MID

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

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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

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: Earth Systems Response and Restoration
Project/Site: Seawolf 12 CTB 1

Job ID: 890-8263-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8263-1	CS-1	Solid	06/03/25 08:25	06/03/25 11:48	2
890-8263-2	CS-2	Solid	06/03/25 08:35	06/03/25 11:48	2
890-8263-3	CS-3	Solid	06/03/25 08:45	06/03/25 11:48	2
890-8263-4	CS-4	Solid	06/03/25 08:55	06/03/25 11:48	2
890-8263-5	SW-1	Solid	06/03/25 09:05	06/03/25 11:48	0-2
890-8263-6	SW-2	Solid	06/03/25 09:15	06/03/25 11:48	0-2
890-8263-7	SW-3	Solid	06/03/25 09:25	06/03/25 11:48	0-2





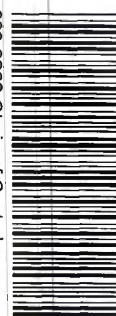
Environment testing

Houston, TX (281) 240-4200, Dallas, TX (214) 802-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Chain of Custody

Work

890-8263 Chain of Custody



www.xenco.com Page 1 of 1



Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gimoreno@earthsys.net

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:				Seawolf 12 CTB 1				Turn Around				ANALYSIS REQUEST																Preservative Codes							
Project Number:				2778				<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																				None: NO DI Water: H ₂ O							
Project Location:				Lea County, NM				Due Date:				Standard TAT																Cool: Cool MeOH: Me							
Sampler's Name:				Santiago Giron				TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN							
CCAWO #:				21480109																								H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT								Temp Blank:		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Well Ice:		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>																		H ₃ PO ₄ : HP			
Samples Received In tact:								Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Thermometer ID:		7																		NaHSO ₄ : NABIS					
Cooler Custody Seals:								Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Correction Factor:		-0.2																		Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:								Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Temperature Reading:		-3.2																		Zn Acetate+NaOH: Zn					
Total Containers:										Corrected Temperature:		-3.0																		NaOH+Ascorbic Acid: SAPC					
Sample Identification				Matrix		Date Sampled		Time Sampled		Depth (feet)		Grab/Comp		# of Cont																		Sample Comments			
CS-1				S		6.3.25		8.25		2		Grab		1		TPH -NM																Incident Number			
CS-2				S		6.3.25		8.35		2		Grab		1		Chloride-NM																nAPP2500624157			
CS-3				S		6.3.25		8.45		2		Grab		1		BTEX-NM																			
CS-4				S		6.3.25		8.55		2		Grab		1		Hold																			
SW-1				S		6.3.25		9.05		0-2		Grab		1		24 Hr Rush																			
SW-2				S		6.3.25		9.15		0-2		Grab		1																					
SW-3				S		6.3.25		9.25		0-2		Grab		1																					

Total 200.7 / 6010		200.8 / 6020:																														
8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Tl	Sn	U	V	Zn	
Hg: 1631 / 245.1 / 7470 / 74																																

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		11/18/18			

Printed Date: 08/02/2020 By: 3030

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8263-1

SDG Number: Lea County, NM

Login Number: 8263

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8263-1

SDG Number: Lea County, NM

Login Number: 8263

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 06/04/25 10:16 AM

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

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QUESTIONS

Action 476725

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 476725
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500624157
Incident Name	NAPP2500624157 SEAWOLF 12 CTB 1 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2223534335] SEAWOLF 12 CTB 1

Location of Release Source

Please answer all the questions in this group.

Site Name	SEAWOLF 12 CTB 1
Date Release Discovered	12/31/2024
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 Flow Line - Production Produced Water Released: 43 BBL Recovered: 42 BBL Lost: 1 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)	Threads broke on piping connection. This allowed approx 42 bbls produced water to be released to lined secondary containment. Approx. 1 bbl of produced water was blown over containment wall due to high winds that day, impacting pad surface. Major release notification made via email.

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QUESTIONS, Page 2

Action 476725

QUESTIONS (continued)

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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: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 06/20/2025
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QUESTIONS, Page 3

Action 476725

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 476725
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 100 (ft.)
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	No

Remediation Plan	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	5250
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
<i>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>	
On what estimated date will the remediation commence	05/30/2025
On what date will (or did) the final sampling or liner inspection occur	06/03/2025
On what date will (or was) the remediation complete(d)	06/16/2025
What is the estimated surface area (in square feet) that will be reclaimed	800
What is the estimated volume (in cubic yards) that will be reclaimed	70
What is the estimated surface area (in square feet) that will be remediated	800
What is the estimated volume (in cubic yards) that will be remediated	70
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 476725

QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
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.
<i>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>	
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: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 06/20/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 476725

QUESTIONS (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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, Page 6

Action 476725

QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	468866
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/03/2025
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	1000

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	800
What was the total volume (cubic yards) remediated	70
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	800
What was the total volume (in cubic yards) reclaimed	70
Summarize any additional remediation activities not included by answers (above)	The Site was remediated according to Site Closure Criteria and has been backfilled with clean, locally sourced material.

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: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 06/20/2025
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Action 476725

QUESTIONS (continued)

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 476725

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/23/2025