



May 1, 2025

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

RE: **CTB-317 (SW Crude 6in) - Closure Request Report**
Incident Number: nAPP2431159375
GPS: 32.053941°, -103.527440°
Lea County, New Mexico
ESRR Project No. 2825/VP-21510

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of Marathon Petroleum (MPLX), presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of crude oil at the CTB-317 (SW Crude 6in) (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, MPLX is requesting No Further Action (NFA) at the Site.

Site Location & Incident Description

The Site was originally reported by MPLX to be located in Unit N, Section 13, Township 26 South, Range 33 East, in Lea County, New Mexico (32.05°, -103.53°) and associated with oil and gas exploration and production operations on Private Land. Upon further investigation by ESRR, the location should be updated to Unit N, Section 12, Township 26 South, Range 33 East, in Lea County, New Mexico (32.053941°, -103.527440°), associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1**).

On November 5, 2024, a faulty piece of equipment ruptured, causing the release of approximately 33 barrels (bbl) of crude oil overlying a Devon operated production pad with no fluids reported as recovered. MPLX conducted initial site assessment activities and mapped the observed footprint hereafter referred to as the Area of Concern (AOC) (**Figure 2**). MPLX gave notice to the New Mexico Oil Conservation Division (NMOCD) on November 6, 2024, by Notification of Release (NOR) and was subsequently assigned Incident Number nAPP2431159375.

ESRR was contracted on January 17, 2025, to complete remediation activities at the Site, guided by MPLX prerequisites.

On February 5, 2025, MPLX requested an extension to the February 3, 2025, due date in which NMOCD revealed that the Corrective Action Form C-141 (Form C-141) submitted on January 23, 2025, was rejected for non-payment. MPLX successfully submitted a Form C-141 on this same day.

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NMOCD granted the extension on February 5, 2025, for a due date of May 6, 2025, stating the following:

"The initial C-141 needs to be filled out and uploaded to the payment portal within 15 days of discovery of the release. Additionally, A Remediation Plan was due on 2/3/2025. An extension needs to be requested before the 90-day Remediation Deadline has expired. If this happens again, the incident may generate enforcement actions as soon as an operator is out of compliance. Please don't let this happen again. The Extension Request is Approved. Include this e-mail correspondence in the Remediation and/or Closure Report."

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:

- o Between 1 and 5 miles of any continuously flowing watercourse or any other significant watercourse;
- o Between 500 and 1,000 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- o Between ½ and 1 mile of any occupied permanent residence, school, hospital, institution or church;
- o 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;
- o Between 1 and 5 miles of any other freshwater well or spring;
- o Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- o Between 500 and 1,000 feet of any wetland;
- o Greater than 5 miles of any subsurface mine;
- o Overlying or within unstable area (i.e. critical/ high/ or medium karst potential); and
- o 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** is attached.

Based on the results from the desktop review, no depth to water wells were found within ½ mile with logged data no greater than 25 years old and the Site is designated with medium karst potential. 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

Remediation Activities

During February 2025, ESRR performed excavation activities of identified impacts via mechanical equipment based on MPLX instruction. Excavation activities were driven by field screening soil for chloride utilizing QuanTab® test strips and visual observation. The excavation was vertically advanced to an approximate depth of 1-foot below ground surface (bgs).

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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-27) and sidewalls (SW-1 through SW-3). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon resealable plastic bag. Confirmation soil samples were placed directly into pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The confirmation soil samples were transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs.

Laboratory analytical results for confirmation soil samples (CS-24 through CS-27 and SW-2) were compliant with Site Closure Criteria and/or the reclamation standard.

Laboratory analytical results for confirmation soil samples (CS-1 through CS-23, SW-1, SW-3), indicated TPH-GRO+TPH-DRO/TPH was above the Site Closure Criteria and/or the reclamation standard. Elevated TPH-GRO+TPH-DRO/TPH concentrations were characterized by concentrations ranging from 179 to 4,930 mg/kg, specifically for TPH-GRO and TPH-DRO at 1-foot bgs.

During April 2025, ESRR performed additional excavation activities in the proximities to confirmation soil samples (CS-1 through CS-23, SW-1, SW-3), vertically advanced to depths ranging from 1.5 to 3-feet bgs. Following the removal of additional soil, ESRR collected, handled, transported, and analyzed the final confirmation soil samples as previously described. **Photographic Documentation** of all activities are attached.

Laboratory analytical results indicated that concentrations 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 740 cubic yards (CY) of impacted soil was removed from the Site and transported to Northern Delaware Basin Disposal in Jal, New Mexico under MPLX 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 for all final confirmation soil samples, MPLX believes that residual soil impacts associated with the inadvertent release have been excavated and removed from the Site in accordance with Site Closure Criteria. MPLX 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 MPLX respectfully requests Closure of this CRR associated with Incident Number nAPP2431159375.

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.

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Sincerely,
EARTH SYSTEMS RESPONSE & RESTORATION

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

Gilbert Moreno
Carlsbad Operations Manager-Project Geologist

cc: Matthew Krakow, Marathon Petroleum
Bureau of Land Management

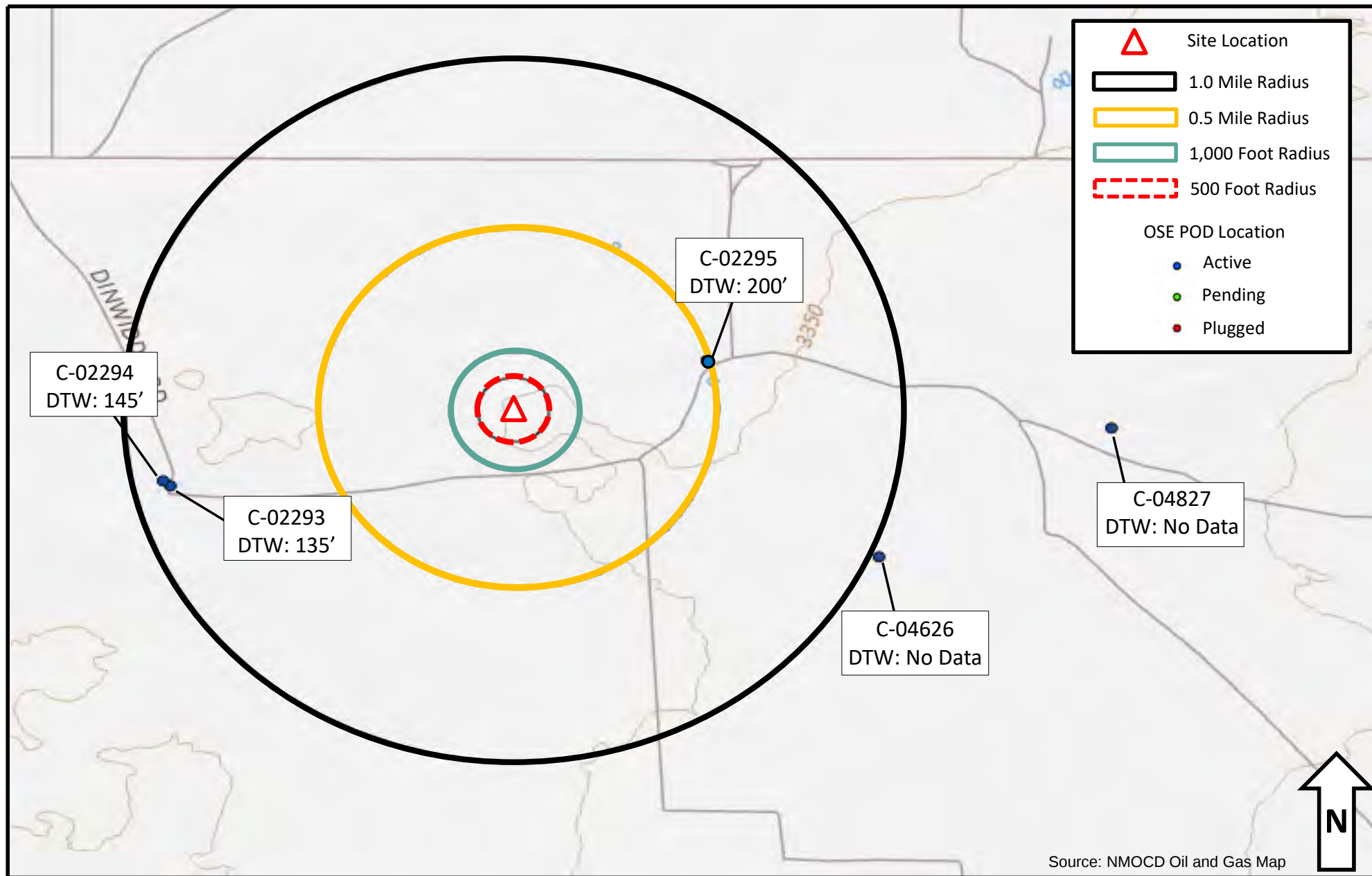
Attachments:

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



Figure 1 – Site Map

Marathon Petroleum – CTB-317 (SW Crude 6in)
 GPS: 32.053941°, -103.527440°
 Lea County, New Mexico

**Figure 1A – Ground Water**

Marathon Petroleum – CTB-317 (SW Crude 6in)
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Lea County, New Mexico

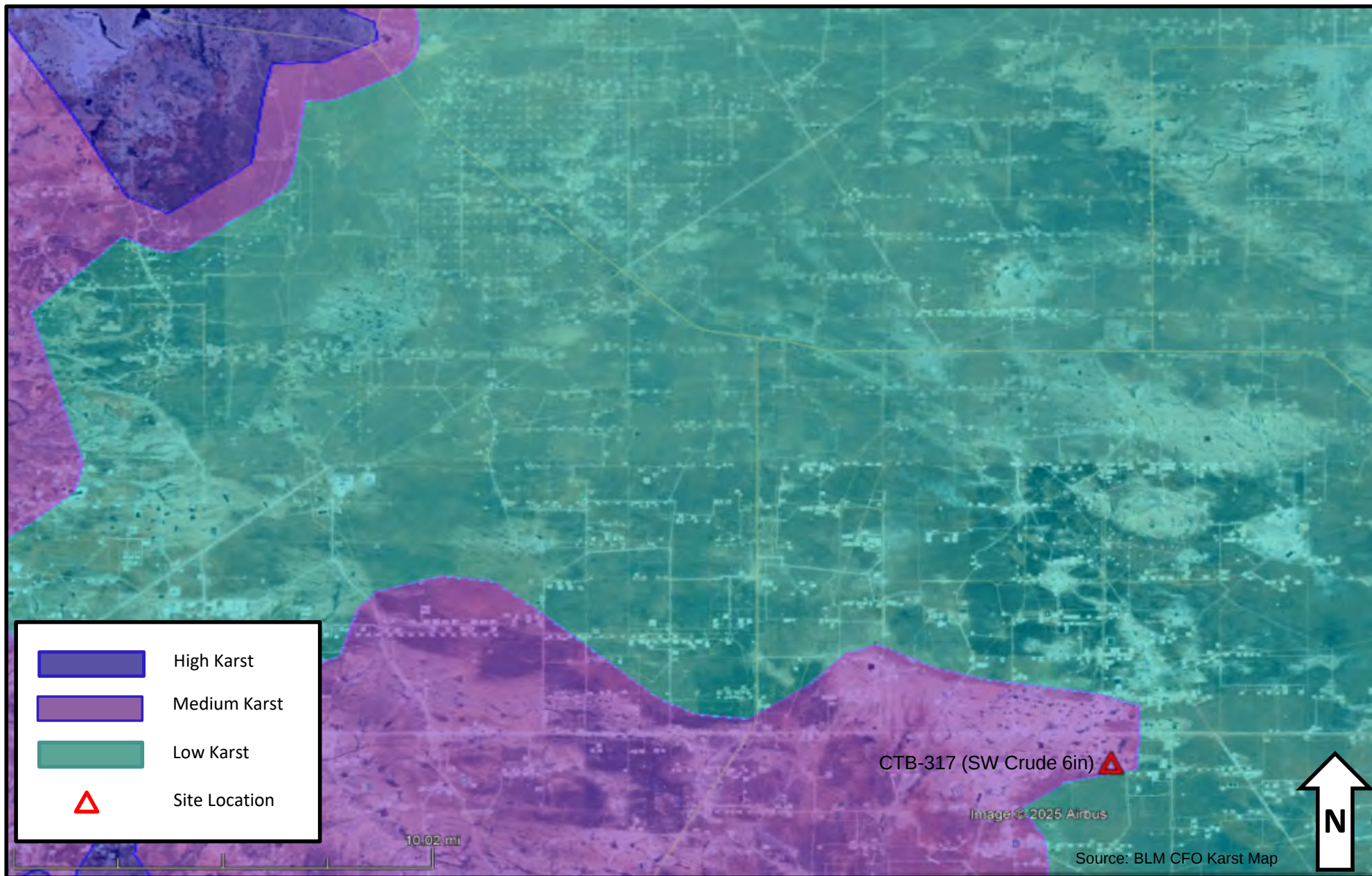


Figure 1B – Karst Potential

Marathon Petroleum – CTB-317 (SW Crude 6in)
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Lea County, New Mexico



Figure 2 – Area of Concern

Marathon Petroleum – CTB-317 (SW Crude 6in)
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Lea County, New Mexico

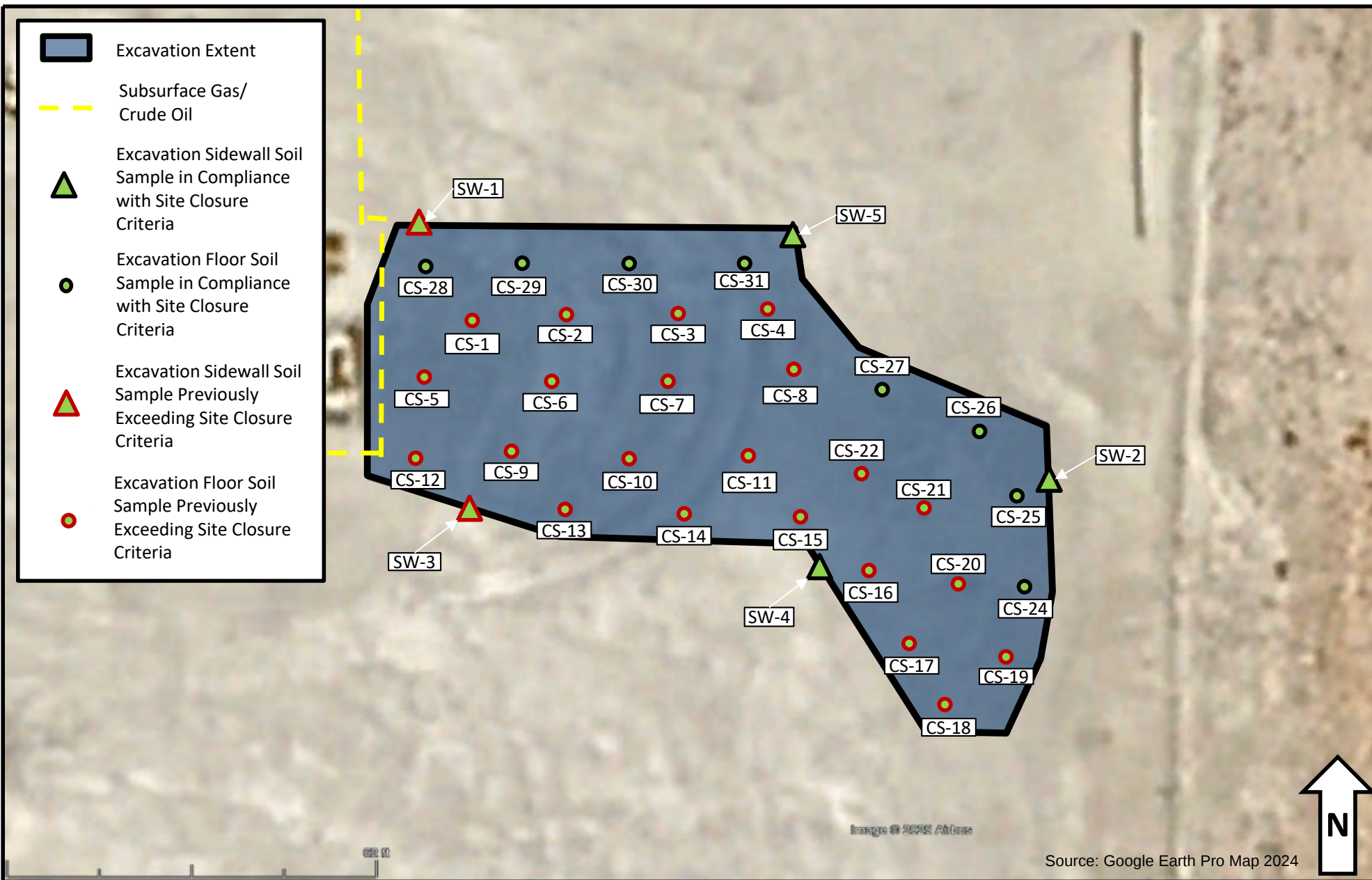


Figure 3 – Excavation Soil Sample Locations

Marathon Petroleum – CTB-317 (SW Crude 6in)
GPS: 32.053941°, -103.527440°
Lea County, New Mexico



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

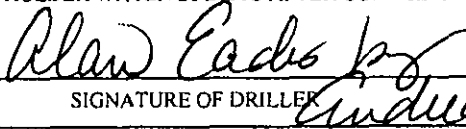
www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
200 MAY 17 4 11:12

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) C-3441-POD1				OSE FILE NUMBER(S) C 03441				
	WELL OWNER NAME(S) Dinwiddie Cattle Company				PHONE (OPTIONAL)				
	WELL OWNER MAILING ADDRESS PO Box 963				CITY Capitan		STATE NM	ZIP 88316	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE N32	MINUTES 04	SECONDS 41.8 N	40.224 * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84 (OSE GPS)				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS 22.867									
2. OPTIONAL	(2.5 ACRE) NW 1/4	(10 ACRE) SE 1/4	(40 ACRE) NW 1/4	(160 ACRE) NE 1/4	SECTION 6	TOWNSHIP 26	☐ NORTH ☒ SOUTH		RANGE 34 ☒ EAST ☐ WEST
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT		
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER WD1044		NAME OF LICENSED DRILLER Alan Eades			NAME OF WELL DRILLING COMPANY Eades Drilling & Pump Service			
	DRILLING STARTED 05-03-10		DRILLING ENDED 05-03-10		DEPTH OF COMPLETED WELL (FT) 250	BORE HOLE DEPTH (FT) 250	DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT)			
	DRILLING FLUID: ☐ AIR ☒ MUD ☐ ADDITIVES - SPECIFY:								
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:								
	DEPTH (FT)		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)	
	FROM	TO							
	0	20	11	PVC	slip joint	6.166	.255		
	20	190	9.75	PVC	slip joint	6.166	.255		
	190	250	9.75	PVC - screen	slip joint	6.166	.255	.035	
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)	
	FROM	TO							
	128	189	61	sandy red clay					
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA						TOTAL ESTIMATED WELL YIELD (GPM)			

FOR OSE INTERNAL USE

FILE NUMBER C-3441	POD NUMBER POD1	WELL RECORD & LOG (Version 6/9/08)
LOCATION 26.34.6.2141122	TRN NUMBER	PAGE 1 OF 2

5. SEAL AND PUMP	TYPE OF PUMP: ☒ SUBMERSIBLE ☐ JET ☐ NO PUMP - WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER - SPECIFY:							
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT	
		FROM	TO					
		0	20					11
	20	250	9.75	gravel	84	gravity fed		
6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?			
	FROM	TO						
	0	1	1	top soil	☐ YES	☐ NO		
	1	25	24	sandy clay	☐ YES	☐ NO		
	25	37	12	caliche & sand	☐ YES	☐ NO		
	37	85	48	sand & sandstone stringers	☐ YES	☐ NO		
	85	108	23	red sandstone with red clay streaks	☐ YES	☐ NO		
	108	128	20	sandstone with yellow clay streaks	☐ YES	☐ NO		
	128	189	61	sandy red clay	☐ YES	☐ NO		
	189	249	60	white sandstone with red clay streaks	☐ YES	☐ NO		
	249	250	1	red clay	☐ YES	☐ NO		
					☐ YES	☐ NO		
					☐ YES	☐ NO		
					☐ YES	☐ NO		
	ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL							
	7. TEST & ADDITIONAL INFO	WELL TEST		METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER - SPECIFY:				
				TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
		ADDITIONAL STATEMENTS OR EXPLANATIONS:						
8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:							
	 SIGNATURE OF DRILLER			May 14, 2010 DATE				

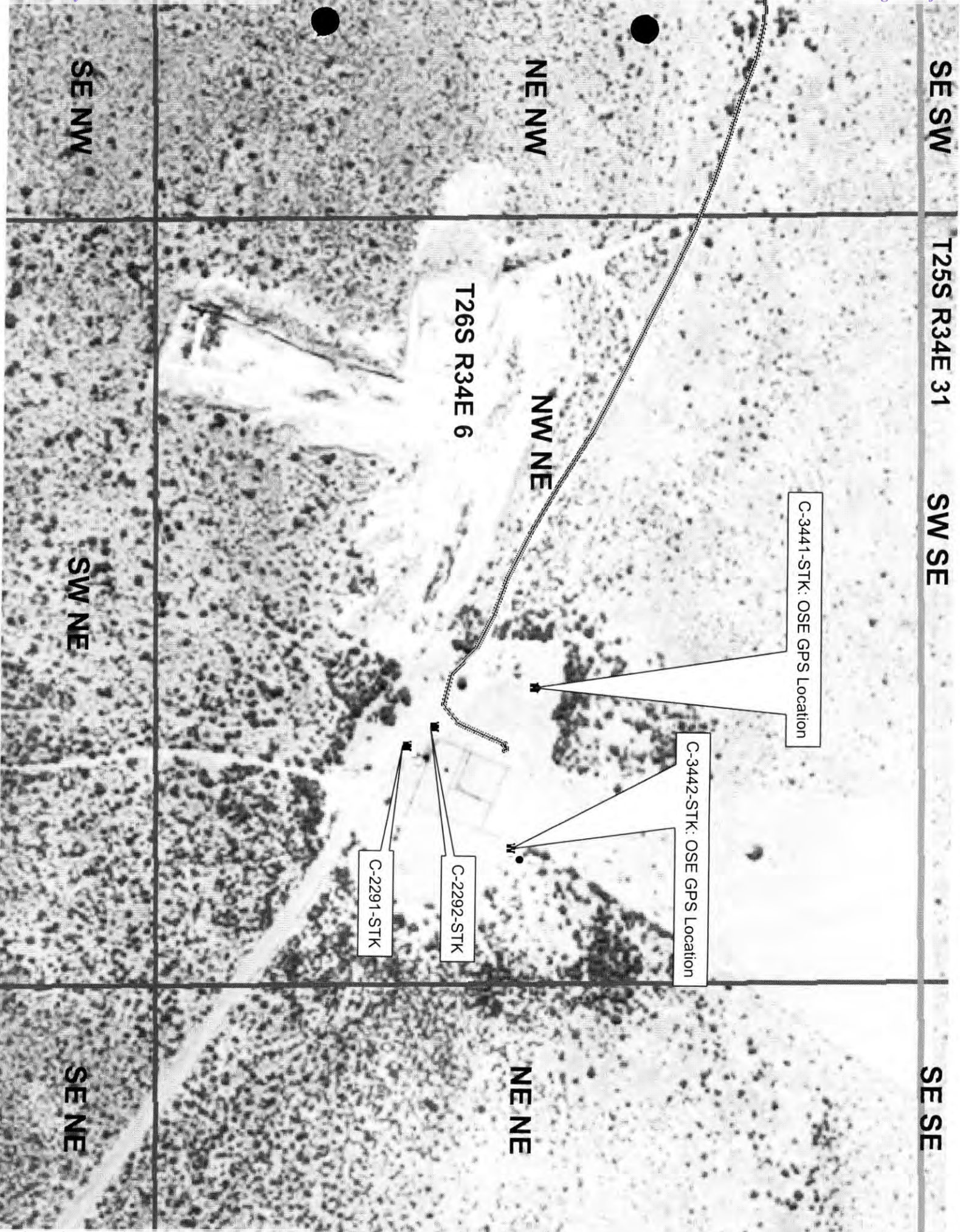
 STATE ENGINEER OF NEW MEXICO
 2010 MAY 17 A 11:11 AM

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER 2-3741	POD NUMBER POD1	TRN NUMBER
LOCATION 26-34-6-24-282		PAGE 2 OF 2

2141122



Locator Tool Report

General Information:

Application ID: 29 Date: 02-01-2011 Time: 11:32:20

WR File Number: C-03441-STK
Purpose: POINT OF DIVERSION

Applicant First Name: DINWIDDIE CATTLE CO
Applicant Last Name: NEW STOCK WELL (OSE FIELD GPS)

GW Basin: CARLSBAD
County: LEA

Critical Management Area Name(s): NONE
Special Condition Area Name(s): NONE
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NW 1/4 of SE 1/4 of NW 1/4 of NE 1/4 of Section 06, Township 26S, Range 34E.

Coordinate System Details:**Geographic Coordinates:**

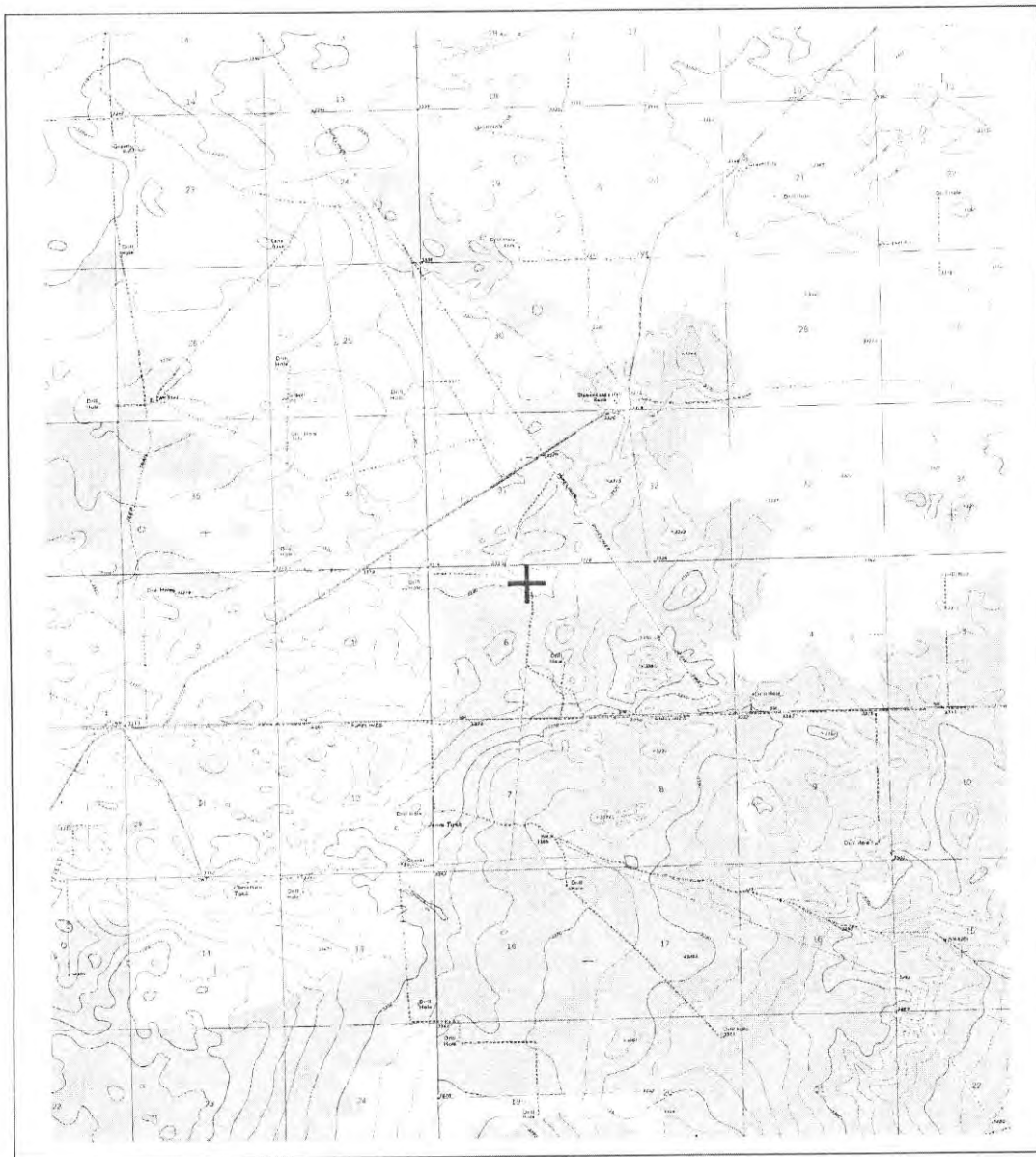
Latitude: 32 Degrees 4 Minutes 40.2 Seconds N
Longitude: 103 Degrees 30 Minutes 22.9 Seconds W

Universal Transverse Mercator Zone: 13N

NAD 1983(92) (Meters)	N: 3,550,040	E: 640,971
NAD 1983(92) (Survey Feet)	N: 11,647,089	E: 2,102,918
NAD 1927 (Meters)	N: 3,549,839	E: 641,018
NAD 1927 (Survey Feet)	N: 11,646,429	E: 2,103,073

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters)	N: 119,798	E: 243,072
NAD 1983(92) (Survey Feet)	N: 393,037	E: 797,479
NAD 1927 (Meters)	N: 119,780	E: 230,518
NAD 1927 (Survey Feet)	N: 392,980	E: 756,292

NEW MEXICO OFFICE OF STATE ENGINEER**Locator Tool Report**

WR File Number: C-03441-STK Scale: 1:77,058

Northing/Easting: UTM83(92) (Meter): N: 3,550,040 E: 640,971

Northing/Easting: SPCS83(92) (Feet): N: 393,037 E: 797,479

GW Basin: Carlsbad

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PHOTO 1: Northwestern view of release extent during excavation preparation. 2/12/2025



PHOTO 2: Northeastern view of release extent during excavation preparation. 2/12/2025

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PHOTO 3: Southwestern view during excavation activities. 2/13/2025



PHOTO 4: Northeastern view during excavation activities. 4/9/2025

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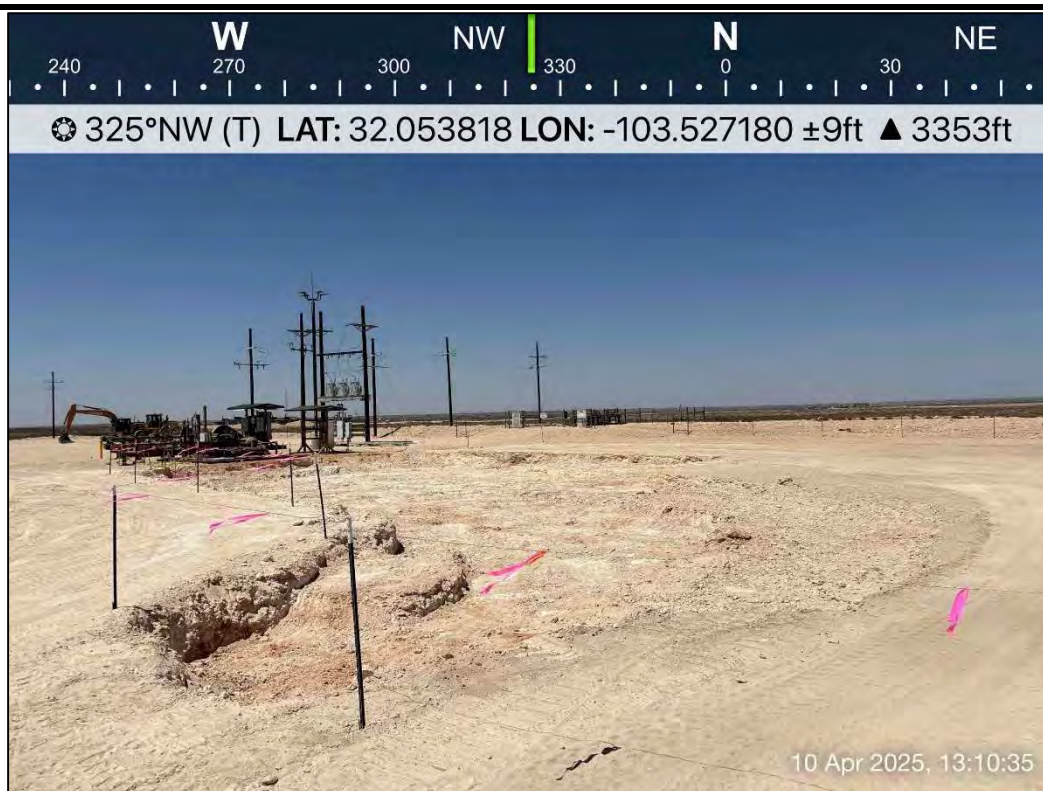


PHOTO 5: Northwestern view of excavation extent. 4/10/2025



PHOTO 6: Northeastern view following restoration activities. 4/29/2025

CTB-317 (SW Crude 6in) - Closure Request Report
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PHOTO 7: Southwestern view following restoration activities. 4/29/2025



PHOTO 8: Western view following restoration activities. 4/29/2025



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
CTB-317 (SW Crude 6in)
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
Confirmation Soil Samples - nAPP2431159375									
CS - 1	02/13/25	1	<0.0398	15.7	497	1,890	<49.8	2,390	93
CS - 1	04/09/25	3	0.0026	<0.00401	<50.0	<50.0	<50.0	<50.0	174
CS - 2	02/13/25	1	<0.0998	41.3	1,260	3,440	<49.7	4,700	101
CS - 2	04/09/25	3	0.0024	<0.00398	<50.3	<50.3	<50.3	<50.3	164
CS - 3	02/13/25	1	<0.100	3.9	199	1,390	<49.7	1,590	204
CS - 3	04/10/25	2	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	296
CS - 4	02/13/25	1	<0.0199	0.913	70.7	671	<50.0	742	148
CS - 4	04/09/25	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	282
CS - 5	02/13/25	1	<0.0497	6.15	357	1,850	<49.9	2,210	97.8
CS - 5	04/09/25	3	0.00213	0.00479	<49.7	<49.7	<49.7	<49.7	191
CS - 6	02/13/25	1	<0.0200	2.53	219	1,970	<49.8	2,190	94.4
CS - 6	04/09/25	3	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	351
CS - 7	02/13/25	1	<0.0101	0.512	<49.8	1,110	<49.8	1,110	34.8
CS - 7	04/09/25	3	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	235
CS - 8	02/13/25	1	<0.00199	<0.00398	<49.7	179	<49.7	179	47.8
CS - 8	04/09/25	2	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	188
CS - 9	02/13/25	1	<0.100	22.7	871	2,810	<49.7	3,680	72.5
CS - 9	04/09/25	3	<0.00202	<0.00403	<49.9	<49.9	<49.9	<50.1	235
CS - 10	02/13/25	1	<0.100	7.28	412	1,550	<49.8	1,960	33.1
CS - 10	04/09/25	3	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	202
CS - 11	02/13/25	1	<0.0498	3.43	198	1,120	<49.9	1,320	20.1
CS - 11	04/09/25	3	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	188
CS - 12	02/13/25	1	<0.0497	14	320	1,110	<49.9	1,430	124
CS - 12	04/09/25	3	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	213
CS - 13	02/13/25	1	<0.0499	8.5	245	1,260	<49.8	1,510	84.3
CS - 13	04/09/25	3	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	177
CS - 14	02/13/25	1	<0.0501	8.17	297	1,170	<49.8	1,470	76
CS - 14	04/09/25	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	188



Table 1
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CTB-317 (SW Crude 6in)
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
Confirmation Soil Samples - nAPP2431159375									
CS - 15	02/13/25	1	<0.0398	5.56	182	731	<49.7	913	26
CS - 15	04/09/25	3	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	180
CS - 16	02/13/25	1	<0.0398	7.05	348	1,450	<49.7	1,800	28.6
CS - 16	04/09/25	3	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	278
CS - 17	02/13/25	1	<0.0998	11.6	340	1,200	<50.0	1,540	67
CS - 17	04/09/25	1.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	188
CS - 18	02/13/25	1	<0.0402	1.41	87.3	665	<49.8	752	26.9
CS - 18	04/10/25	2	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	164
CS - 19	02/13/25	1	<0.0100	0.293	<50.0	229	<50.0	229	20.9
CS - 19	04/10/25	2	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	132
CS - 20	02/13/25	1	<0.0100	0.724	97.8	686	<49.9	784	15
CS - 20	04/10/25	2	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	136
CS - 21	02/13/25	1	<0.00200	21.4	887	3,020	<49.8	3,910	26.3
CS - 21	04/09/25	3	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	122
CS - 22	02/13/25	1	0.114	45.8	1,710	2,940	<49.7	4,650	25.2
CS - 22	04/09/25	3	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	168
CS - 23	02/13/25	1	0.0985	0.89	1,760	3,170	<49.8	4,930	<9.92
CS - 23	04/09/25	3	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	101
CS - 24	02/13/25	1	<0.00201	0.0332	<50.0	<50.0	<50.0	<50.0	18.4
CS - 25	02/13/25	1	<0.00199	0.0443	<49.9	<49.9	<49.9	<49.9	<9.92
CS - 26	02/13/25	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	15.6
CS - 27	02/13/25	1	<0.00200	<0.00399	<49.8	86.3	<49.8	86.3	96.9
CS - 28	04/09/25	3	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	259
CS - 29	04/10/25	3	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	287
CS - 30	04/10/25	2	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	159
CS - 31	04/10/25	2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	393
SW - 1	02/13/25	0-1	<0.00200	0.148	<49.9	213	<49.9	213	31.5
SW - 1	04/09/25	0-3	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	186



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
CTB-317 (SW Crude 6in)
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
Confirmation Soil Samples - nAPP2431159375									
SW - 2	02/13/25	0-1	<0.00198	0.00839	<49.8	<49.8	<49.8	<49.8	26.6
SW - 3	02/13/25	0-1	<0.00199	0.112	<49.9	267	<49.9	267	48.9
SW - 3	04/09/25	0-3	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	190
SW - 4	04/09/25	0-3	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	232
SW - 5	04/10/25	0-3	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	267

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.



Outlook

Re: [EXTERNAL] CTB-317 (SW Crude 6in) - Extension Request - nAPP2431159375

From Gilbert Moreno <gmoreno@earthsys.net>**Date** Wed 2/5/2025 3:04 PM**To** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Krakow, Matthew J. <MJKrakow@Marathonpetroleum.com>**Cc** Kristopher Williams <kwilliams@earthsys.net>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Mr. Hamlet,

Thank you for granting this Extension Request. I apologize for my error on requesting this extension past the deadline and will ensure you, ESRR, will not allow this to happen again.

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: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>**Sent:** Wednesday, February 5, 2025 2:31 PM**To:** Gilbert Moreno <gmoreno@earthsys.net>; Krakow, Matthew J. <MJKrakow@Marathonpetroleum.com>**Cc:** Kristopher Williams <kwilliams@earthsys.net>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>**Subject:** RE: [EXTERNAL] CTB-317 (SW Crude 6in) - Extension Request - nAPP2431159375

Mr. Krakow and Mr. Moreno,

The initial C-141 needs to be filled out and uploaded to the payment portal within 15 days of discovery of the release. Additionally, A Remediation Plan was due on 2/3/2025. An extension needs to be requested before the 90-day Remediation Deadline has expired. If this happens again, the incident may generate enforcement actions as soon as an operator is out of compliance. Please don't let this happen again. The Extension Request is Approved. Include this e-mail correspondence in the Remediation and/or Closure Report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, February 5, 2025 3:03 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] CTB-317 (SW Crude 6in) - Extension Request - nAPP2431159375

Hi Rob,

I am forwarding this to you as you are the reviewer and I had them submit an initial C-141 first which should be in your queue. They were requesting an extension.

Shelly

From: Krakow, Matthew J. <MJKrakow@Marathonpetroleum.com>
Sent: Wednesday, February 5, 2025 2:10 PM
To: Gilbert Moreno <gmoreno@earthsys.net>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Kristopher Williams <kwilliams@earthsys.net>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] CTB-317 (SW Crude 6in) - Extension Request - nAPP2431159375

Hi Gilbert,

I resubmitted the C-141 for CTB 317, not sure why the payment didn't go through on the last one.

From: Gilbert Moreno <gmoreno@earthsys.net>
Sent: Wednesday, February 5, 2025 1:34 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Kristopher Williams <kwilliams@earthsys.net>; Krakow, Matthew J. <MJKrakow@Marathonpetroleum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] CTB-317 (SW Crude 6in) - Extension Request - nAPP2431159375

Thank you, Shelly. I was unaware of the rejection. We will get it squared away and resubmit the extension request.

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: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, February 5, 2025 1:27:41 PM
To: Gilbert Moreno <gmoreno@earthsys.net>
Cc: Kristopher Williams <kwilliams@earthsys.net>; Krakow, Matthew J. <MJKrakow@Marathonpetroleum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] CTB-317 (SW Crude 6in) - Extension Request - nAPP2431159375

Hi Gilbert,

Before an extension can even be considered, an initial C-141 needs to be submitted. The initial C-141 submitted on 1/23/25 was rejected for non payment.

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: Wednesday, February 5, 2025 12:40 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kristopher Williams <kwilliams@earthsys.net>; Krakow, Matthew J. <MJKrakow@Marathonpetroleum.com>
Subject: [EXTERNAL] CTB-317 (SW Crude 6in) - Extension Request - nAPP2431159375

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

Hello,

Earth Sytems R & R (ESRR) on behalf of Marathon Petroleum (MPLX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B(1) NMAC at the CTB-317 (SW Crude 6in) (Site).

A crude oil release was discovered on November 5th, 2024, and was subsequently assigned Incident Number nAPP2431159375. ESRR was assigned to this incident by MPLX on January 17th, 2025, and anticipates remediation activities to commence the week of February 10th, 2025.

MPLX requests an extension of the February 3rd, 2025, deadline for the release associated with Incident Number nAPP2431159375, to allow additional time for remediation activities and for ESRR to complete a subsequent corrective action closure report upon completion.

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

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 429541

QUESTIONS

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 429541
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2431159375
Incident Name	NAPP2431159375 CTB-317 (SW CRUDE 6IN) @ 30-025-49210
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-49210] SEAWOLF 12 1 FEDERAL #011H

Location of Release Source	
Site Name	CTB-317 (SW Crude 6in)
Date Release Discovered	11/05/2024
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,800
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/13/2025
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	Site GPS: 32.05,-103.53

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 429541

CONDITIONS

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 429541
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
mkrakow	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.	2/7/2025

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 447952

QUESTIONS

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 447952
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2431159375
Incident Name	NAPP2431159375 CTB-317 (SW CRUDE 6IN) @ 30-025-49210
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-49210] SEAWOLF 12 1 FEDERAL #011H

Location of Release Source	
Site Name	CTB-317 (SW Crude 6in)
Date Release Discovered	11/05/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,400
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/09/2025
Time sampling will commence	08:00 PM
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	32.05,-103.53

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 447952

CONDITIONS

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 447952
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
mkrakow	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.	4/2/2025

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 447955

QUESTIONS

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 447955
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2431159375
Incident Name	NAPP2431159375 CTB-317 (SW CRUDE 6IN) @ 30-025-49210
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-49210] SEAWOLF 12 1 FEDERAL #011H

Location of Release Source	
Site Name	CTB-317 (SW Crude 6in)
Date Release Discovered	11/05/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,400
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/10/2025
Time sampling will commence	08:00 PM
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	32.05,-103.53

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 447955

CONDITIONS

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 447955
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
mkrakow	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.	4/2/2025



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 2/20/2025 12:59:03 PM

JOB DESCRIPTION

CTB-317 (SW Crude 6in)
Lea County, NM

JOB NUMBER

890-7674-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



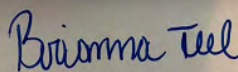
Eurofins Carlsbad

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



Generated
2/20/2025 12:59:03 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: CTB-317 (SW Crude 6in)

Laboratory Job ID: 890-7674-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1

Job ID: 890-7674-1

Eurofins Carlsbad

Job Narrative 890-7674-1

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 2/14/2025 3:20 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 1.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (890-7674-1), CS-2 (890-7674-2), CS-3 (890-7674-3), CS-4 (890-7674-4), CS-5 (890-7674-5), CS-6 (890-7674-6), CS-7 (890-7674-7), CS-8 (890-7674-8), CS-9 (890-7674-9), CS-10 (890-7674-10), CS-11 (890-7674-11), CS-12 (890-7674-12), CS-13 (890-7674-13), CS-14 (890-7674-14), CS-15 (890-7674-15), CS-16 (890-7674-16), CS-17 (890-7674-17), CS-18 (890-7674-18), CS-19 (890-7674-19), CS-20 (890-7674-20), CS-21 (890-7674-21), CS-22 (890-7674-22), CS-23 (890-7674-23), CS-24 (890-7674-24), CS-25 (890-7674-25), CS-26 (890-7674-26) and CS-27 (890-7674-27).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-21 (890-7674-21), CS-22 (890-7674-22) and CS-23 (890-7674-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-21 (890-7674-21) and CS-22 (890-7674-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-1 (890-7674-1), CS-2 (890-7674-2), CS-3 (890-7674-3), CS-4 (890-7674-4), CS-5 (890-7674-5), CS-6 (890-7674-6), CS-7 (890-7674-7), CS-9 (890-7674-9) and CS-10 (890-7674-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-11 (890-7674-11), CS-12 (890-7674-12), CS-13 (890-7674-13), CS-14 (890-7674-14), CS-15 (890-7674-15), CS-16 (890-7674-16), CS-17 (890-7674-17), CS-18 (890-7674-18), CS-19 (890-7674-19), CS-20 (890-7674-20) and CS-23 (890-7674-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-26 (890-7674-26), CS-27 (890-7674-27), (890-7673-A-1-D), (890-7673-A-1-E MS) and (890-7673-A-1-F MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (890-7674-1), CS-2 (890-7674-2), CS-3 (890-7674-3), CS-4 (890-7674-4), CS-5 (890-7674-5), CS-6 (890-7674-6), CS-7 (890-7674-7), CS-21 (890-7674-21), CS-22 (890-7674-22) and CS-23 (890-7674-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-7674-A-8-B MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS-8

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Case Narrative

Client: Earth Systems Response and Restoration
Project: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1

Job ID: 890-7674-1 (Continued)

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(890-7674-8), CS-9 (890-7674-9), CS-10 (890-7674-10), CS-11 (890-7674-11), CS-12 (890-7674-12), CS-13 (890-7674-13), CS-14 (890-7674-14), CS-15 (890-7674-15), CS-16 (890-7674-16), CS-17 (890-7674-17), CS-18 (890-7674-18), CS-19 (890-7674-19), CS-20 (890-7674-20) and (890-7674-A-8-C MSD). Percent recoveries are based on the amount spiked.

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: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-1

Lab Sample ID: 890-7674-1

Date Collected: 02/13/25 10:30

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		02/18/25 13:54	02/18/25 16:21	20
Toluene	0.219		0.0398		mg/Kg		02/18/25 13:54	02/18/25 16:21	20
Ethylbenzene	1.86		0.0398		mg/Kg		02/18/25 13:54	02/18/25 16:21	20
m-Xylene & p-Xylene	13.4		0.0795		mg/Kg		02/18/25 13:54	02/18/25 16:21	20
o-Xylene	0.221		0.0398		mg/Kg		02/18/25 13:54	02/18/25 16:21	20
Xylenes, Total	13.6		0.0795		mg/Kg		02/18/25 13:54	02/18/25 16:21	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	465	S1+	70 - 130	02/18/25 13:54	02/18/25 16:21	20
1,4-Difluorobenzene (Surr)	89		70 - 130	02/18/25 13:54	02/18/25 16:21	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	15.7		0.0795		mg/Kg			02/18/25 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2390		49.8		mg/Kg			02/17/25 15:12	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	497		49.8		mg/Kg		02/16/25 20:29	02/17/25 15:12	1
Diesel Range Organics (Over C10-C28)	1890		49.8		mg/Kg		02/16/25 20:29	02/17/25 15:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/25 20:29	02/17/25 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130	02/16/25 20:29	02/17/25 15:12	1
o-Terphenyl	152	S1+	70 - 130	02/16/25 20:29	02/17/25 15:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.0		10.1		mg/Kg			02/17/25 21:15	1

Client Sample ID: CS-2

Lab Sample ID: 890-7674-2

Date Collected: 02/13/25 10:35

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0998	U	0.0998		mg/Kg		02/18/25 13:54	02/18/25 16:41	50
Toluene	2.01		0.0998		mg/Kg		02/18/25 13:54	02/18/25 16:41	50
Ethylbenzene	3.79		0.0998		mg/Kg		02/18/25 13:54	02/18/25 16:41	50
m-Xylene & p-Xylene	28.8		0.200		mg/Kg		02/18/25 13:54	02/18/25 16:41	50
o-Xylene	6.67		0.0998		mg/Kg		02/18/25 13:54	02/18/25 16:41	50
Xylenes, Total	35.5		0.200		mg/Kg		02/18/25 13:54	02/18/25 16:41	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	296	S1+	70 - 130	02/18/25 13:54	02/18/25 16:41	50

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-2

Lab Sample ID: 890-7674-2

Date Collected: 02/13/25 10:35

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	02/18/25 13:54	02/18/25 16:41	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	41.3		0.200		mg/Kg			02/18/25 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4700		49.7		mg/Kg			02/17/25 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1260		49.7		mg/Kg		02/16/25 20:29	02/17/25 15:28	1
Diesel Range Organics (Over C10-C28)	3440		49.7		mg/Kg		02/16/25 20:29	02/17/25 15:28	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/16/25 20:29	02/17/25 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	183	S1+	70 - 130				02/16/25 20:29	02/17/25 15:28	1
o-Terphenyl	177	S1+	70 - 130				02/16/25 20:29	02/17/25 15:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		10.1		mg/Kg			02/17/25 21:24	1

Client Sample ID: CS-3

Lab Sample ID: 890-7674-3

Date Collected: 02/13/25 10:40

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.100	U	0.100		mg/Kg		02/18/25 13:54	02/18/25 17:02	50
Toluene	<0.100	U	0.100		mg/Kg		02/18/25 13:54	02/18/25 17:02	50
Ethylbenzene	0.461		0.100		mg/Kg		02/18/25 13:54	02/18/25 17:02	50
m-Xylene & p-Xylene	2.60		0.200		mg/Kg		02/18/25 13:54	02/18/25 17:02	50
o-Xylene	0.839		0.100		mg/Kg		02/18/25 13:54	02/18/25 17:02	50
Xylenes, Total	3.44		0.200		mg/Kg		02/18/25 13:54	02/18/25 17:02	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130	02/18/25 13:54	02/18/25 17:02	50
1,4-Difluorobenzene (Surr)	103		70 - 130	02/18/25 13:54	02/18/25 17:02	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.90		0.200		mg/Kg			02/18/25 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1590		49.7		mg/Kg			02/17/25 15:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-3

Lab Sample ID: 890-7674-3

Date Collected: 02/13/25 10:40

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 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	199		49.7		mg/Kg		02/16/25 20:29	02/17/25 15:43	1
Diesel Range Organics (Over C10-C28)	1390		49.7		mg/Kg		02/16/25 20:29	02/17/25 15:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/16/25 20:29	02/17/25 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130	02/16/25 20:29	02/17/25 15:43	1
o-Terphenyl	148	S1+	70 - 130	02/16/25 20:29	02/17/25 15:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		10.1		mg/Kg			02/17/25 21:52	1

Client Sample ID: CS-4

Lab Sample ID: 890-7674-4

Date Collected: 02/13/25 10:45

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U	0.0199		mg/Kg		02/18/25 13:54	02/18/25 17:22	10
Toluene	<0.0199	U	0.0199		mg/Kg		02/18/25 13:54	02/18/25 17:22	10
Ethylbenzene	0.191		0.0199		mg/Kg		02/18/25 13:54	02/18/25 17:22	10
m-Xylene & p-Xylene	0.693		0.0398		mg/Kg		02/18/25 13:54	02/18/25 17:22	10
o-Xylene	0.0289		0.0199		mg/Kg		02/18/25 13:54	02/18/25 17:22	10
Xylenes, Total	0.722		0.0398		mg/Kg		02/18/25 13:54	02/18/25 17:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	203	S1+	70 - 130	02/18/25 13:54	02/18/25 17:22	10
1,4-Difluorobenzene (Surr)	99		70 - 130	02/18/25 13:54	02/18/25 17:22	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.913		0.0398		mg/Kg			02/18/25 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	742		50.0		mg/Kg			02/17/25 15:58	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	70.7		50.0		mg/Kg		02/16/25 20:29	02/17/25 15:58	1
Diesel Range Organics (Over C10-C28)	671		50.0		mg/Kg		02/16/25 20:29	02/17/25 15:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/25 20:29	02/17/25 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130	02/16/25 20:29	02/17/25 15:58	1
o-Terphenyl	141	S1+	70 - 130	02/16/25 20:29	02/17/25 15:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-4

Lab Sample ID: 890-7674-4

Date Collected: 02/13/25 10:45

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		10.0		mg/Kg			02/17/25 20:01	1

Client Sample ID: CS-5

Lab Sample ID: 890-7674-5

Date Collected: 02/13/25 10:50

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0497	U	0.0497		mg/Kg		02/18/25 13:54	02/18/25 17:43	25
Toluene	0.109		0.0497		mg/Kg		02/18/25 13:54	02/18/25 17:43	25
Ethylbenzene	0.883		0.0497		mg/Kg		02/18/25 13:54	02/18/25 17:43	25
m-Xylene & p-Xylene	5.04		0.0994		mg/Kg		02/18/25 13:54	02/18/25 17:43	25
o-Xylene	0.117		0.0497		mg/Kg		02/18/25 13:54	02/18/25 17:43	25
Xylenes, Total	5.16		0.0994		mg/Kg		02/18/25 13:54	02/18/25 17:43	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	238	S1+	70 - 130				02/18/25 13:54	02/18/25 17:43	25
1,4-Difluorobenzene (Surr)	92		70 - 130				02/18/25 13:54	02/18/25 17:43	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	6.15		0.0994		mg/Kg			02/18/25 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2210		49.9		mg/Kg			02/17/25 16:13	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	357		49.9		mg/Kg		02/16/25 20:29	02/17/25 16:13	1
Diesel Range Organics (Over C10-C28)	1850		49.9		mg/Kg		02/16/25 20:29	02/17/25 16:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/16/25 20:29	02/17/25 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	168	S1+	70 - 130				02/16/25 20:29	02/17/25 16:13	1
o-Terphenyl	159	S1+	70 - 130				02/16/25 20:29	02/17/25 16:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.8		10.0		mg/Kg			02/17/25 20:24	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-6

Lab Sample ID: 890-7674-6

Date Collected: 02/13/25 10:55

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200		mg/Kg		02/18/25 13:54	02/18/25 18:03	10
Toluene	0.0217		0.0200		mg/Kg		02/18/25 13:54	02/18/25 18:03	10
Ethylbenzene	0.418		0.0200		mg/Kg		02/18/25 13:54	02/18/25 18:03	10
m-Xylene & p-Xylene	2.05		0.0399		mg/Kg		02/18/25 13:54	02/18/25 18:03	10
o-Xylene	0.0375		0.0200		mg/Kg		02/18/25 13:54	02/18/25 18:03	10
Xylenes, Total	2.09		0.0399		mg/Kg		02/18/25 13:54	02/18/25 18:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	305	S1+	70 - 130	02/18/25 13:54	02/18/25 18:03	10
1,4-Difluorobenzene (Surr)	92		70 - 130	02/18/25 13:54	02/18/25 18:03	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	2.53		0.0399		mg/Kg			02/18/25 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2190		49.8		mg/Kg			02/17/25 16:29	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	219		49.8		mg/Kg		02/16/25 20:29	02/17/25 16:29	1
Diesel Range Organics (Over C10-C28)	1970		49.8		mg/Kg		02/16/25 20:29	02/17/25 16:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/25 20:29	02/17/25 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130	02/16/25 20:29	02/17/25 16:29	1
o-Terphenyl	158	S1+	70 - 130	02/16/25 20:29	02/17/25 16:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.4		10.1		mg/Kg			02/17/25 20:31	1

Client Sample ID: CS-7

Lab Sample ID: 890-7674-7

Date Collected: 02/13/25 11:00

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0101	U	0.0101		mg/Kg		02/18/25 13:54	02/18/25 18:24	5
Toluene	<0.0101	U	0.0101		mg/Kg		02/18/25 13:54	02/18/25 18:24	5
Ethylbenzene	0.0772		0.0101		mg/Kg		02/18/25 13:54	02/18/25 18:24	5
m-Xylene & p-Xylene	0.422		0.0201		mg/Kg		02/18/25 13:54	02/18/25 18:24	5
o-Xylene	0.0131		0.0101		mg/Kg		02/18/25 13:54	02/18/25 18:24	5
Xylenes, Total	0.435		0.0201		mg/Kg		02/18/25 13:54	02/18/25 18:24	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	02/18/25 13:54	02/18/25 18:24	5

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-7

Lab Sample ID: 890-7674-7

Date Collected: 02/13/25 11:00

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	02/18/25 13:54	02/18/25 18:24	5

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.512		0.0201		mg/Kg			02/18/25 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1110		49.8		mg/Kg			02/17/25 16:43	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	<49.8	U	49.8		mg/Kg		02/16/25 20:29	02/17/25 16:43	1
Diesel Range Organics (Over C10-C28)	1110		49.8		mg/Kg		02/16/25 20:29	02/17/25 16:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/25 20:29	02/17/25 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130				02/16/25 20:29	02/17/25 16:43	1
o-Terphenyl	155	S1+	70 - 130				02/16/25 20:29	02/17/25 16:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.8		9.94		mg/Kg			02/17/25 20:39	1

Client Sample ID: CS-8

Lab Sample ID: 890-7674-8

Date Collected: 02/13/25 11:05

Matrix: Solid

Date Received: 02/14/25 15:20

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		02/18/25 13:54	02/18/25 16:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/18/25 13:54	02/18/25 16:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/18/25 13:54	02/18/25 16:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/18/25 13:54	02/18/25 16:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/18/25 13:54	02/18/25 16:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/18/25 13:54	02/18/25 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	02/18/25 13:54	02/18/25 16:00	1
1,4-Difluorobenzene (Surr)	89		70 - 130	02/18/25 13:54	02/18/25 16:00	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			02/18/25 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	179		49.7		mg/Kg			02/18/25 02:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-8

Lab Sample ID: 890-7674-8

Date Collected: 02/13/25 11:05

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 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 F1	49.7		mg/Kg		02/16/25 20:32	02/18/25 02:22	1
Diesel Range Organics (Over C10-C28)	179	F1	49.7		mg/Kg		02/16/25 20:32	02/18/25 02:22	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/16/25 20:32	02/18/25 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				02/16/25 20:32	02/18/25 02:22	1
o-Terphenyl	133	S1+	70 - 130				02/16/25 20:32	02/18/25 02:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.8		9.92		mg/Kg			02/17/25 20:46	1

Client Sample ID: CS-9

Lab Sample ID: 890-7674-9

Date Collected: 02/13/25 11:10

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.100	U	0.100		mg/Kg		02/18/25 13:54	02/18/25 18:44	50
Toluene	1.06		0.100		mg/Kg		02/18/25 13:54	02/18/25 18:44	50
Ethylbenzene	2.29		0.100		mg/Kg		02/18/25 13:54	02/18/25 18:44	50
m-Xylene & p-Xylene	15.9		0.200		mg/Kg		02/18/25 13:54	02/18/25 18:44	50
o-Xylene	3.49		0.100		mg/Kg		02/18/25 13:54	02/18/25 18:44	50
Xylenes, Total	19.4		0.200		mg/Kg		02/18/25 13:54	02/18/25 18:44	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	219	S1+	70 - 130				02/18/25 13:54	02/18/25 18:44	50
1,4-Difluorobenzene (Surr)	99		70 - 130				02/18/25 13:54	02/18/25 18:44	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	22.7		0.200		mg/Kg			02/18/25 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3680		49.7		mg/Kg			02/18/25 03:07	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	871		49.7		mg/Kg		02/16/25 20:32	02/18/25 03:07	1
Diesel Range Organics (Over C10-C28)	2810		49.7		mg/Kg		02/16/25 20:32	02/18/25 03:07	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/16/25 20:32	02/18/25 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	183	S1+	70 - 130				02/16/25 20:32	02/18/25 03:07	1
o-Terphenyl	175	S1+	70 - 130				02/16/25 20:32	02/18/25 03:07	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-9

Lab Sample ID: 890-7674-9

Date Collected: 02/13/25 11:10

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.5		10.1		mg/Kg			02/17/25 21:08	1

Client Sample ID: CS-10

Lab Sample ID: 890-7674-10

Date Collected: 02/13/25 11:15

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.100	U	0.100		mg/Kg		02/18/25 13:54	02/18/25 19:05	50
Toluene	0.215		0.100		mg/Kg		02/18/25 13:54	02/18/25 19:05	50
Ethylbenzene	0.819		0.100		mg/Kg		02/18/25 13:54	02/18/25 19:05	50
m-Xylene & p-Xylene	4.77		0.201		mg/Kg		02/18/25 13:54	02/18/25 19:05	50
o-Xylene	1.48		0.100		mg/Kg		02/18/25 13:54	02/18/25 19:05	50
Xylenes, Total	6.25		0.201		mg/Kg		02/18/25 13:54	02/18/25 19:05	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				02/18/25 13:54	02/18/25 19:05	50
1,4-Difluorobenzene (Surr)	100		70 - 130				02/18/25 13:54	02/18/25 19:05	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	7.28		0.201		mg/Kg			02/18/25 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1960		49.8		mg/Kg			02/18/25 03:22	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	412		49.8		mg/Kg		02/16/25 20:32	02/18/25 03:22	1
Diesel Range Organics (Over C10-C28)	1550		49.8		mg/Kg		02/16/25 20:32	02/18/25 03:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/25 20:32	02/18/25 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	167	S1+	70 - 130				02/16/25 20:32	02/18/25 03:22	1
o-Terphenyl	155	S1+	70 - 130				02/16/25 20:32	02/18/25 03:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		9.96		mg/Kg			02/17/25 21:16	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-11

Lab Sample ID: 890-7674-11

Date Collected: 02/13/25 11:20

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0498	U	0.0498		mg/Kg		02/18/25 10:09	02/18/25 16:18	25
Toluene	0.0771		0.0498		mg/Kg		02/18/25 10:09	02/18/25 16:18	25
Ethylbenzene	0.0575		0.0498		mg/Kg		02/18/25 10:09	02/18/25 16:18	25
m-Xylene & p-Xylene	2.70		0.0996		mg/Kg		02/18/25 10:09	02/18/25 16:18	25
o-Xylene	0.597		0.0498		mg/Kg		02/18/25 10:09	02/18/25 16:18	25
Xylenes, Total	3.30		0.0996		mg/Kg		02/18/25 10:09	02/18/25 16:18	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	193	S1+	70 - 130	02/18/25 10:09	02/18/25 16:18	25
1,4-Difluorobenzene (Surr)	119		70 - 130	02/18/25 10:09	02/18/25 16:18	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.43		0.0996		mg/Kg			02/18/25 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1320		49.9		mg/Kg			02/18/25 03:37	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	198		49.9		mg/Kg		02/16/25 20:32	02/18/25 03:37	1
Diesel Range Organics (Over C10-C28)	1120		49.9		mg/Kg		02/16/25 20:32	02/18/25 03:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/16/25 20:32	02/18/25 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	169	S1+	70 - 130	02/16/25 20:32	02/18/25 03:37	1
o-Terphenyl	153	S1+	70 - 130	02/16/25 20:32	02/18/25 03:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.1		9.98		mg/Kg			02/17/25 21:23	1

Client Sample ID: CS-12

Lab Sample ID: 890-7674-12

Date Collected: 02/13/25 11:25

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0497	U	0.0497		mg/Kg		02/18/25 10:09	02/18/25 16:38	25
Toluene	0.466		0.0497		mg/Kg		02/18/25 10:09	02/18/25 16:38	25
Ethylbenzene	0.661		0.0497		mg/Kg		02/18/25 10:09	02/18/25 16:38	25
m-Xylene & p-Xylene	10.0		0.0994		mg/Kg		02/18/25 10:09	02/18/25 16:38	25
o-Xylene	2.91		0.0497		mg/Kg		02/18/25 10:09	02/18/25 16:38	25
Xylenes, Total	12.9		0.0994		mg/Kg		02/18/25 10:09	02/18/25 16:38	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	295	S1+	70 - 130	02/18/25 10:09	02/18/25 16:38	25

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-12

Lab Sample ID: 890-7674-12

Date Collected: 02/13/25 11:25

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	115		70 - 130	02/18/25 10:09	02/18/25 16:38	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	14.0		0.0994		mg/Kg			02/18/25 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	1430		49.9		mg/Kg			02/18/25 03:53	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	320		49.9		mg/Kg		02/16/25 20:32	02/18/25 03:53	1
Diesel Range Organics (Over C10-C28)	1110		49.9		mg/Kg		02/16/25 20:32	02/18/25 03:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/16/25 20:32	02/18/25 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130				02/16/25 20:32	02/18/25 03:53	1
o-Terphenyl	150	S1+	70 - 130				02/16/25 20:32	02/18/25 03:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		9.98		mg/Kg			02/17/25 21:31	1

Client Sample ID: CS-13

Lab Sample ID: 890-7674-13

Date Collected: 02/13/25 11:30

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0499	U	0.0499		mg/Kg		02/18/25 10:09	02/18/25 16:59	25
Toluene	0.259		0.0499		mg/Kg		02/18/25 10:09	02/18/25 16:59	25
Ethylbenzene	0.224		0.0499		mg/Kg		02/18/25 10:09	02/18/25 16:59	25
m-Xylene & p-Xylene	6.47		0.0998		mg/Kg		02/18/25 10:09	02/18/25 16:59	25
o-Xylene	1.55		0.0499		mg/Kg		02/18/25 10:09	02/18/25 16:59	25
Xylenes, Total	8.02		0.0998		mg/Kg		02/18/25 10:09	02/18/25 16:59	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	248	S1+	70 - 130	02/18/25 10:09	02/18/25 16:59	25
1,4-Difluorobenzene (Surr)	115		70 - 130	02/18/25 10:09	02/18/25 16:59	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	8.50		0.0998		mg/Kg			02/18/25 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1510		49.8		mg/Kg			02/18/25 04:08	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-13

Lab Sample ID: 890-7674-13

Date Collected: 02/13/25 11:30

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 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	245		49.8		mg/Kg		02/16/25 20:32	02/18/25 04:08	1
Diesel Range Organics (Over C10-C28)	1260		49.8		mg/Kg		02/16/25 20:32	02/18/25 04:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/25 20:32	02/18/25 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130				02/16/25 20:32	02/18/25 04:08	1
o-Terphenyl	152	S1+	70 - 130				02/16/25 20:32	02/18/25 04:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.3		9.94		mg/Kg			02/17/25 21:38	1

Client Sample ID: CS-14

Lab Sample ID: 890-7674-14

Date Collected: 02/13/25 11:35

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0501	U	0.0501		mg/Kg		02/18/25 10:09	02/18/25 17:20	25
Toluene	0.114		0.0501		mg/Kg		02/18/25 10:09	02/18/25 17:20	25
Ethylbenzene	0.288		0.0501		mg/Kg		02/18/25 10:09	02/18/25 17:20	25
m-Xylene & p-Xylene	5.97		0.100		mg/Kg		02/18/25 10:09	02/18/25 17:20	25
o-Xylene	1.80		0.0501		mg/Kg		02/18/25 10:09	02/18/25 17:20	25
Xylenes, Total	7.77		0.100		mg/Kg		02/18/25 10:09	02/18/25 17:20	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	263	S1+	70 - 130				02/18/25 10:09	02/18/25 17:20	25
1,4-Difluorobenzene (Surr)	103		70 - 130				02/18/25 10:09	02/18/25 17:20	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	8.17		0.100		mg/Kg			02/18/25 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1470		49.8		mg/Kg			02/18/25 04:23	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	297		49.8		mg/Kg		02/16/25 20:32	02/18/25 04:23	1
Diesel Range Organics (Over C10-C28)	1170		49.8		mg/Kg		02/16/25 20:32	02/18/25 04:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/25 20:32	02/18/25 04:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130				02/16/25 20:32	02/18/25 04:23	1
o-Terphenyl	145	S1+	70 - 130				02/16/25 20:32	02/18/25 04:23	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-14

Lab Sample ID: 890-7674-14

Date Collected: 02/13/25 11:35

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.0		10.0		mg/Kg			02/17/25 21:46	1

Client Sample ID: CS-15

Lab Sample ID: 890-7674-15

Date Collected: 02/13/25 11:40

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		02/18/25 10:09	02/18/25 17:40	20
Toluene	0.0597		0.0398		mg/Kg		02/18/25 10:09	02/18/25 17:40	20
Ethylbenzene	0.141		0.0398		mg/Kg		02/18/25 10:09	02/18/25 17:40	20
m-Xylene & p-Xylene	4.16		0.0797		mg/Kg		02/18/25 10:09	02/18/25 17:40	20
o-Xylene	1.20		0.0398		mg/Kg		02/18/25 10:09	02/18/25 17:40	20
Xylenes, Total	5.36		0.0797		mg/Kg		02/18/25 10:09	02/18/25 17:40	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	261	S1+	70 - 130				02/18/25 10:09	02/18/25 17:40	20
1,4-Difluorobenzene (Surr)	103		70 - 130				02/18/25 10:09	02/18/25 17:40	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	5.56		0.0797		mg/Kg			02/18/25 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	913		49.7		mg/Kg			02/18/25 04:38	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	182		49.7		mg/Kg		02/16/25 20:32	02/18/25 04:38	1
Diesel Range Organics (Over C10-C28)	731		49.7		mg/Kg		02/16/25 20:32	02/18/25 04:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/16/25 20:32	02/18/25 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	165	S1+	70 - 130				02/16/25 20:32	02/18/25 04:38	1
o-Terphenyl	144	S1+	70 - 130				02/16/25 20:32	02/18/25 04:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.0		10.0		mg/Kg			02/17/25 22:08	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-16

Lab Sample ID: 890-7674-16

Date Collected: 02/13/25 11:45

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		02/18/25 10:09	02/18/25 18:00	20
Toluene	0.141		0.0398		mg/Kg		02/18/25 10:09	02/18/25 18:00	20
Ethylbenzene	0.126		0.0398		mg/Kg		02/18/25 10:09	02/18/25 18:00	20
m-Xylene & p-Xylene	5.47		0.0795		mg/Kg		02/18/25 10:09	02/18/25 18:00	20
o-Xylene	1.31		0.0398		mg/Kg		02/18/25 10:09	02/18/25 18:00	20
Xylenes, Total	6.78		0.0795		mg/Kg		02/18/25 10:09	02/18/25 18:00	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	260	S1+	70 - 130	02/18/25 10:09	02/18/25 18:00	20
1,4-Difluorobenzene (Surr)	112		70 - 130	02/18/25 10:09	02/18/25 18:00	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	7.05		0.0795		mg/Kg			02/18/25 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1800		49.7		mg/Kg			02/18/25 04:53	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	348		49.7		mg/Kg		02/16/25 20:32	02/18/25 04:53	1
Diesel Range Organics (Over C10-C28)	1450		49.7		mg/Kg		02/16/25 20:32	02/18/25 04:53	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/16/25 20:32	02/18/25 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130	02/16/25 20:32	02/18/25 04:53	1
o-Terphenyl	150	S1+	70 - 130	02/16/25 20:32	02/18/25 04:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.6		9.94		mg/Kg			02/17/25 22:15	1

Client Sample ID: CS-17

Lab Sample ID: 890-7674-17

Date Collected: 02/13/25 11:50

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0998	U	0.0998		mg/Kg		02/18/25 10:09	02/18/25 18:21	50
Toluene	0.221		0.0998		mg/Kg		02/18/25 10:09	02/18/25 18:21	50
Ethylbenzene	1.82		0.0998		mg/Kg		02/18/25 10:09	02/18/25 18:21	50
m-Xylene & p-Xylene	7.45		0.200		mg/Kg		02/18/25 10:09	02/18/25 18:21	50
o-Xylene	2.12		0.0998		mg/Kg		02/18/25 10:09	02/18/25 18:21	50
Xylenes, Total	9.57		0.200		mg/Kg		02/18/25 10:09	02/18/25 18:21	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	222	S1+	70 - 130	02/18/25 10:09	02/18/25 18:21	50

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-17

Lab Sample ID: 890-7674-17

Date Collected: 02/13/25 11:50

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	122		70 - 130	02/18/25 10:09	02/18/25 18:21	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	11.6		0.200		mg/Kg			02/18/25 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1540		50.0		mg/Kg			02/18/25 05:09	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	340		50.0		mg/Kg		02/16/25 20:32	02/18/25 05:09	1
Diesel Range Organics (Over C10-C28)	1200		50.0		mg/Kg		02/16/25 20:32	02/18/25 05:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/25 20:32	02/18/25 05:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	167	S1+	70 - 130				02/16/25 20:32	02/18/25 05:09	1
o-Terphenyl	149	S1+	70 - 130				02/16/25 20:32	02/18/25 05:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.0		9.92		mg/Kg			02/17/25 22:38	1

Client Sample ID: CS-18

Lab Sample ID: 890-7674-18

Date Collected: 02/13/25 11:55

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402		mg/Kg		02/18/25 10:09	02/18/25 18:42	20
Toluene	<0.0402	U	0.0402		mg/Kg		02/18/25 10:09	02/18/25 18:42	20
Ethylbenzene	0.296		0.0402		mg/Kg		02/18/25 10:09	02/18/25 18:42	20
m-Xylene & p-Xylene	0.873		0.0805		mg/Kg		02/18/25 10:09	02/18/25 18:42	20
o-Xylene	0.236		0.0402		mg/Kg		02/18/25 10:09	02/18/25 18:42	20
Xylenes, Total	1.11		0.0805		mg/Kg		02/18/25 10:09	02/18/25 18:42	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130	02/18/25 10:09	02/18/25 18:42	20
1,4-Difluorobenzene (Surr)	106		70 - 130	02/18/25 10:09	02/18/25 18:42	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.41		0.0805		mg/Kg			02/18/25 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	752		49.8		mg/Kg			02/18/25 05:39	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-18

Lab Sample ID: 890-7674-18

Date Collected: 02/13/25 11:55

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 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	87.3		49.8		mg/Kg		02/16/25 20:32	02/18/25 05:39	1
Diesel Range Organics (Over C10-C28)	665		49.8		mg/Kg		02/16/25 20:32	02/18/25 05:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/25 20:32	02/18/25 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	165	S1+	70 - 130				02/16/25 20:32	02/18/25 05:39	1
o-Terphenyl	150	S1+	70 - 130				02/16/25 20:32	02/18/25 05:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.9		10.0		mg/Kg			02/17/25 22:45	1

Client Sample ID: CS-19

Lab Sample ID: 890-7674-19

Date Collected: 02/13/25 12:00

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0100	U	0.0100		mg/Kg		02/18/25 10:09	02/18/25 19:02	5
Toluene	<0.0100	U	0.0100		mg/Kg		02/18/25 10:09	02/18/25 19:02	5
Ethylbenzene	0.0826		0.0100		mg/Kg		02/18/25 10:09	02/18/25 19:02	5
m-Xylene & p-Xylene	0.194		0.0200		mg/Kg		02/18/25 10:09	02/18/25 19:02	5
o-Xylene	0.0163		0.0100		mg/Kg		02/18/25 10:09	02/18/25 19:02	5
Xylenes, Total	0.210		0.0200		mg/Kg		02/18/25 10:09	02/18/25 19:02	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	265	S1+	70 - 130				02/18/25 10:09	02/18/25 19:02	5
1,4-Difluorobenzene (Surr)	103		70 - 130				02/18/25 10:09	02/18/25 19:02	5

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.293		0.0200		mg/Kg			02/18/25 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	229		50.0		mg/Kg			02/18/25 05:53	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		02/16/25 20:32	02/18/25 05:53	1
Diesel Range Organics (Over C10-C28)	229		50.0		mg/Kg		02/16/25 20:32	02/18/25 05:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/25 20:32	02/18/25 05:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	167	S1+	70 - 130				02/16/25 20:32	02/18/25 05:53	1
o-Terphenyl	146	S1+	70 - 130				02/16/25 20:32	02/18/25 05:53	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-19

Lab Sample ID: 890-7674-19

Date Collected: 02/13/25 12:00

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.9		9.94		mg/Kg			02/17/25 22:53	1

Client Sample ID: CS-20

Lab Sample ID: 890-7674-20

Date Collected: 02/13/25 12:05

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0100	U	0.0100		mg/Kg		02/18/25 10:09	02/18/25 19:23	5
Toluene	0.0237		0.0100		mg/Kg		02/18/25 10:09	02/18/25 19:23	5
Ethylbenzene	0.431		0.0100		mg/Kg		02/18/25 10:09	02/18/25 19:23	5
m-Xylene & p-Xylene	<0.0201	U	0.0201		mg/Kg		02/18/25 10:09	02/18/25 19:23	5
o-Xylene	0.269		0.0100		mg/Kg		02/18/25 10:09	02/18/25 19:23	5
Xylenes, Total	0.269		0.0201		mg/Kg		02/18/25 10:09	02/18/25 19:23	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				02/18/25 10:09	02/18/25 19:23	5
1,4-Difluorobenzene (Surr)	120		70 - 130				02/18/25 10:09	02/18/25 19:23	5

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.724		0.0201		mg/Kg			02/18/25 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	784		49.9		mg/Kg			02/18/25 06:08	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	97.8		49.9		mg/Kg		02/16/25 20:32	02/18/25 06:08	1
Diesel Range Organics (Over C10-C28)	686		49.9		mg/Kg		02/16/25 20:32	02/18/25 06:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/16/25 20:32	02/18/25 06:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	165	S1+	70 - 130				02/16/25 20:32	02/18/25 06:08	1
o-Terphenyl	151	S1+	70 - 130				02/16/25 20:32	02/18/25 06:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.0		9.96		mg/Kg			02/17/25 23:00	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-21

Lab Sample ID: 890-7674-21

Date Collected: 02/13/25 12:10

Matrix: Solid

Date Received: 02/14/25 15:20

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		02/17/25 08:40	02/17/25 18:26	1
Toluene	0.346		0.00200		mg/Kg		02/17/25 08:40	02/17/25 18:26	1
Ethylbenzene	0.393		0.00200		mg/Kg		02/17/25 08:40	02/17/25 18:26	1
m-Xylene & p-Xylene	14.3		0.0794		mg/Kg		02/17/25 16:31	02/18/25 13:52	20
o-Xylene	6.41		0.0397		mg/Kg		02/17/25 16:31	02/18/25 13:52	20
Xylenes, Total	20.7		0.0794		mg/Kg		02/17/25 16:31	02/18/25 13:52	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	727	S1+	70 - 130				02/17/25 08:40	02/17/25 18:26	1
1,4-Difluorobenzene (Surr)	74		70 - 130				02/17/25 08:40	02/17/25 18:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	21.4		0.0794		mg/Kg			02/18/25 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	3910		49.8		mg/Kg			02/18/25 06:22	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	887		49.8		mg/Kg		02/16/25 20:32	02/18/25 06:22	1
Diesel Range Organics (Over C10-C28)	3020		49.8		mg/Kg		02/16/25 20:32	02/18/25 06:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/25 20:32	02/18/25 06:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	196	S1+	70 - 130				02/16/25 20:32	02/18/25 06:22	1
o-Terphenyl	184	S1+	70 - 130				02/16/25 20:32	02/18/25 06:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.3		10.0		mg/Kg			02/17/25 23:07	1

Client Sample ID: CS-22

Lab Sample ID: 890-7674-22

Date Collected: 02/13/25 12:15

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.114		0.00201		mg/Kg		02/17/25 08:40	02/17/25 18:46	1
Toluene	9.95		0.0499		mg/Kg		02/17/25 16:31	02/18/25 14:12	25
Ethylbenzene	4.85		0.0499		mg/Kg		02/17/25 16:31	02/18/25 14:12	25
m-Xylene & p-Xylene	25.7		2.00		mg/Kg		02/19/25 08:44	02/19/25 15:04	500
o-Xylene	5.23		1.00		mg/Kg		02/19/25 08:44	02/19/25 15:04	500
Xylenes, Total	30.9		2.00		mg/Kg		02/19/25 08:44	02/19/25 15:04	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	473	S1+	70 - 130				02/17/25 08:40	02/17/25 18:46	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-22

Lab Sample ID: 890-7674-22

Date Collected: 02/13/25 12:15

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	02/17/25 08:40	02/17/25 18:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	45.8		2.00		mg/Kg			02/19/25 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4650		49.7		mg/Kg			02/18/25 06:37	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	1710		49.7		mg/Kg		02/16/25 20:32	02/18/25 06:37	1
Diesel Range Organics (Over C10-C28)	2940		49.7		mg/Kg		02/16/25 20:32	02/18/25 06:37	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/16/25 20:32	02/18/25 06:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	202	S1+	70 - 130				02/16/25 20:32	02/18/25 06:37	1
o-Terphenyl	184	S1+	70 - 130				02/16/25 20:32	02/18/25 06:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.2		9.94		mg/Kg			02/18/25 08:27	1

Client Sample ID: CS-23

Lab Sample ID: 890-7674-23

Date Collected: 02/13/25 12:20

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0985		0.00200		mg/Kg		02/17/25 08:40	02/17/25 19:06	1
Toluene	0.0579		0.00200		mg/Kg		02/18/25 10:09	02/18/25 14:43	1
Ethylbenzene	0.0187		0.00200		mg/Kg		02/18/25 10:09	02/18/25 14:43	1
m-Xylene & p-Xylene	0.608		0.00401		mg/Kg		02/18/25 10:09	02/18/25 14:43	1
o-Xylene	0.107		0.00200		mg/Kg		02/18/25 10:09	02/18/25 14:43	1
Xylenes, Total	0.715		0.00401		mg/Kg		02/18/25 10:09	02/18/25 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	448	S1+	70 - 130	02/17/25 08:40	02/17/25 19:06	1
1,4-Difluorobenzene (Surr)	120		70 - 130	02/17/25 08:40	02/17/25 19:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.890		0.00401		mg/Kg			02/18/25 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4930		49.8		mg/Kg			02/18/25 06:52	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-23

Lab Sample ID: 890-7674-23

Date Collected: 02/13/25 12:20

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 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	1760		49.8		mg/Kg		02/16/25 20:32	02/18/25 06:52	1
Diesel Range Organics (Over C10-C28)	3170		49.8		mg/Kg		02/16/25 20:32	02/18/25 06:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/25 20:32	02/18/25 06:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	211	S1+	70 - 130				02/16/25 20:32	02/18/25 06:52	1
o-Terphenyl	193	S1+	70 - 130				02/16/25 20:32	02/18/25 06:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			02/17/25 23:17	1

Client Sample ID: CS-24

Lab Sample ID: 890-7674-24

Date Collected: 02/13/25 12:25

Matrix: Solid

Date Received: 02/14/25 15:20

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		02/17/25 08:40	02/17/25 19:27	1
Toluene	0.00362		0.00201		mg/Kg		02/17/25 08:40	02/17/25 19:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/17/25 08:40	02/17/25 19:27	1
m-Xylene & p-Xylene	0.0236		0.00402		mg/Kg		02/17/25 08:40	02/17/25 19:27	1
o-Xylene	0.00596		0.00201		mg/Kg		02/17/25 08:40	02/17/25 19:27	1
Xylenes, Total	0.0296		0.00402		mg/Kg		02/17/25 08:40	02/17/25 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				02/17/25 08:40	02/17/25 19:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130				02/17/25 08:40	02/17/25 19:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0332		0.00402		mg/Kg			02/17/25 19:27	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			02/18/25 07:07	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		02/16/25 20:32	02/18/25 07:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/16/25 20:32	02/18/25 07:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/25 20:32	02/18/25 07:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02/16/25 20:32	02/18/25 07:07	1
o-Terphenyl	73		70 - 130				02/16/25 20:32	02/18/25 07:07	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-24

Lab Sample ID: 890-7674-24

Date Collected: 02/13/25 12:25

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4		9.94		mg/Kg			02/17/25 23:51	1

Client Sample ID: CS-25

Lab Sample ID: 890-7674-25

Date Collected: 02/13/25 12:30

Matrix: Solid

Date Received: 02/14/25 15:20

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		02/17/25 17:00	02/17/25 18:49	1
Toluene	0.00213		0.00199		mg/Kg		02/17/25 17:00	02/17/25 18:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/17/25 17:00	02/17/25 18:49	1
m-Xylene & p-Xylene	0.00555		0.00398		mg/Kg		02/17/25 17:00	02/17/25 18:49	1
o-Xylene	0.0366		0.00199		mg/Kg		02/17/25 17:00	02/17/25 18:49	1
Xylenes, Total	0.0422		0.00398		mg/Kg		02/17/25 17:00	02/17/25 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				02/17/25 17:00	02/17/25 18:49	1
1,4-Difluorobenzene (Surr)	99		70 - 130				02/17/25 17:00	02/17/25 18:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0443		0.00398		mg/Kg			02/17/25 18:49	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			02/18/25 07:22	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		02/16/25 20:32	02/18/25 07:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/16/25 20:32	02/18/25 07:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/16/25 20:32	02/18/25 07:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				02/16/25 20:32	02/18/25 07:22	1
o-Terphenyl	71		70 - 130				02/16/25 20:32	02/18/25 07:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			02/18/25 00:18	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-26

Lab Sample ID: 890-7674-26

Date Collected: 02/13/25 12:35

Matrix: Solid

Date Received: 02/14/25 15:20

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		02/17/25 17:00	02/17/25 19:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/25 17:00	02/17/25 19:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/17/25 17:00	02/17/25 19:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/17/25 17:00	02/17/25 19:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/17/25 17:00	02/17/25 19:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/17/25 17:00	02/17/25 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	02/17/25 17:00	02/17/25 19:09	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/17/25 17:00	02/17/25 19:09	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			02/17/25 19:09	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			02/18/25 07:36	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		02/16/25 20:32	02/18/25 07:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/16/25 20:32	02/18/25 07:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/25 20:32	02/18/25 07:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	02/16/25 20:32	02/18/25 07:36	1
o-Terphenyl	68	S1-	70 - 130	02/16/25 20:32	02/18/25 07:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.6		9.94		mg/Kg			02/18/25 00:28	1

Client Sample ID: CS-27

Lab Sample ID: 890-7674-27

Date Collected: 02/13/25 12:40

Matrix: Solid

Date Received: 02/14/25 15:20

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		02/17/25 13:54	02/18/25 14:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/25 13:54	02/18/25 14:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/17/25 13:54	02/18/25 14:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/17/25 13:54	02/18/25 14:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/17/25 13:54	02/18/25 14:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/17/25 13:54	02/18/25 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	02/17/25 13:54	02/18/25 14:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-27

Lab Sample ID: 890-7674-27

Date Collected: 02/13/25 12:40

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	02/17/25 13:54	02/18/25 14:36	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			02/18/25 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.3		49.8		mg/Kg			02/18/25 07:51	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		02/16/25 20:32	02/18/25 07:51	1
Diesel Range Organics (Over C10-C28)	86.3		49.8		mg/Kg		02/16/25 20:32	02/18/25 07:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/25 20:32	02/18/25 07:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				02/16/25 20:32	02/18/25 07:51	1
o-Terphenyl	66	S1-	70 - 130				02/16/25 20:32	02/18/25 07:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.9		9.98		mg/Kg			02/18/25 00:37	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
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	DFBZ1
		(70-130)	(70-130)
890-7674-1	CS-1	465 S1+	89
890-7674-2	CS-2	296 S1+	97
890-7674-3	CS-3	164 S1+	103
890-7674-4	CS-4	203 S1+	99
890-7674-5	CS-5	238 S1+	92
890-7674-6	CS-6	305 S1+	92
890-7674-7	CS-7	160 S1+	85
890-7674-8	CS-8	99	89
890-7674-9	CS-9	219 S1+	99
890-7674-10	CS-10	147 S1+	100
890-7674-11	CS-11	193 S1+	119
890-7674-12	CS-12	295 S1+	115
890-7674-13	CS-13	248 S1+	115
890-7674-14	CS-14	263 S1+	103
890-7674-15	CS-15	261 S1+	103
890-7674-16	CS-16	260 S1+	112
890-7674-17	CS-17	222 S1+	122
890-7674-18	CS-18	168 S1+	106
890-7674-19	CS-19	265 S1+	103
890-7674-20	CS-20	137 S1+	120
890-7674-21	CS-21	727 S1+	74
890-7674-22	CS-22	473 S1+	67 S1-
890-7674-23	CS-23	448 S1+	120
890-7674-24	CS-24	107	95
890-7674-25	CS-25	107	99
890-7674-26	CS-26	103	102
890-7674-27	CS-27	96	88
LCS 880-102917/1-A	Lab Control Sample	104	96
LCS 880-102919/1-A	Lab Control Sample	97	108
LCS 880-102969/1-A	Lab Control Sample	125	98
LCS 880-102993/1-A	Lab Control Sample	101	103
LCS 880-103020/1-A	Lab Control Sample	103	115
LCS 880-103133/1-A	Lab Control Sample	116	97
LCSD 880-102917/2-A	Lab Control Sample Dup	102	91
LCSD 880-102919/2-A	Lab Control Sample Dup	97	109
LCSD 880-102969/2-A	Lab Control Sample Dup	101	90
LCSD 880-102993/2-A	Lab Control Sample Dup	95	101
LCSD 880-103020/2-A	Lab Control Sample Dup	103	106
LCSD 880-103133/2-A	Lab Control Sample Dup	114	94
MB 880-102917/5-A	Method Blank	101	93
MB 880-102919/5-A	Method Blank	100	95
MB 880-102969/5-A	Method Blank	82	90
MB 880-102993/5-A	Method Blank	113	90
MB 880-103020/5-A	Method Blank	97	93
MB 880-103133/5-A	Method Blank	107	81

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

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)
890-7674-1	CS-1	166 S1+	152 S1+
890-7674-2	CS-2	183 S1+	177 S1+
890-7674-3	CS-3	156 S1+	148 S1+
890-7674-4	CS-4	153 S1+	141 S1+
890-7674-5	CS-5	168 S1+	159 S1+
890-7674-6	CS-6	161 S1+	158 S1+
890-7674-7	CS-7	159 S1+	155 S1+
890-7674-8	CS-8	149 S1+	133 S1+
890-7674-8 MS	CS-8	153 S1+	129
890-7674-8 MSD	CS-8	157 S1+	132 S1+
890-7674-9	CS-9	183 S1+	175 S1+
890-7674-10	CS-10	167 S1+	155 S1+
890-7674-11	CS-11	169 S1+	153 S1+
890-7674-12	CS-12	166 S1+	150 S1+
890-7674-13	CS-13	166 S1+	152 S1+
890-7674-14	CS-14	160 S1+	145 S1+
890-7674-15	CS-15	165 S1+	144 S1+
890-7674-16	CS-16	164 S1+	150 S1+
890-7674-17	CS-17	167 S1+	149 S1+
890-7674-18	CS-18	165 S1+	150 S1+
890-7674-19	CS-19	167 S1+	146 S1+
890-7674-20	CS-20	165 S1+	151 S1+
890-7674-21	CS-21	196 S1+	184 S1+
890-7674-22	CS-22	202 S1+	184 S1+
890-7674-23	CS-23	211 S1+	193 S1+
890-7674-24	CS-24	85	73
890-7674-25	CS-25	84	71
890-7674-26	CS-26	79	68 S1-
890-7674-27	CS-27	76	66 S1-
LCS 880-102892/2-A	Lab Control Sample	96	82
LCS 880-102893/2-A	Lab Control Sample	113	97
LCSD 880-102892/3-A	Lab Control Sample Dup	95	80
LCSD 880-102893/3-A	Lab Control Sample Dup	99	86
MB 880-102892/1-A	Method Blank	129	117
MB 880-102893/1-A	Method Blank	103	93

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102917/5-A

Matrix: Solid

Analysis Batch: 102912

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:40	02/17/25 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:40	02/17/25 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:40	02/17/25 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/17/25 08:40	02/17/25 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:40	02/17/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/17/25 08:40	02/17/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	02/17/25 08:40	02/17/25 11:25	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/17/25 08:40	02/17/25 11:25	1

Lab Sample ID: LCS 880-102917/1-A

Matrix: Solid

Analysis Batch: 102912

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1042		mg/Kg		104	70 - 130
Toluene	0.100	0.09815		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1012		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2154		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-102917/2-A

Matrix: Solid

Analysis Batch: 102912

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102917

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09794		mg/Kg		98	70 - 130	6	35
Toluene	0.100	0.09429		mg/Kg		94	70 - 130	4	35
Ethylbenzene	0.100	0.09359		mg/Kg		94	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2071		mg/Kg		104	70 - 130	4	35
o-Xylene	0.100	0.1010		mg/Kg		101	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: MB 880-102919/5-A

Matrix: Solid

Analysis Batch: 102913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-102919/5-A

Matrix: Solid

Analysis Batch: 102913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/17/25 08:45	02/17/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/17/25 08:45	02/17/25 11:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/17/25 08:45	02/17/25 11:25	1

Lab Sample ID: LCS 880-102919/1-A

Matrix: Solid

Analysis Batch: 102913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1062		mg/Kg		106	70 - 130
Toluene	0.100	0.09394		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.1018		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2132		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1058		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-102919/2-A

Matrix: Solid

Analysis Batch: 102913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102919

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1067		mg/Kg		107	70 - 130	1	35
Toluene	0.100	0.09401		mg/Kg		94	70 - 130	0	35
Ethylbenzene	0.100	0.1022		mg/Kg		102	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2127		mg/Kg		106	70 - 130	0	35
o-Xylene	0.100	0.1060		mg/Kg		106	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-102969/5-A

Matrix: Solid

Analysis Batch: 103008

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/17/25 13:54	02/18/25 11:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/25 13:54	02/18/25 11:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/17/25 13:54	02/18/25 11:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/17/25 13:54	02/18/25 11:09	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-102969/5-A

Matrix: Solid

Analysis Batch: 103008

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/17/25 13:54	02/18/25 11:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/17/25 13:54	02/18/25 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	02/17/25 13:54	02/18/25 11:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130	02/17/25 13:54	02/18/25 11:09	1

Lab Sample ID: LCS 880-102969/1-A

Matrix: Solid

Analysis Batch: 103008

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1095		mg/Kg		110	70 - 130
Toluene	0.100	0.09704		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1304		mg/Kg		130	70 - 130
m-Xylene & p-Xylene	0.200	0.2539		mg/Kg		127	70 - 130
o-Xylene	0.100	0.1255		mg/Kg		126	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-102969/2-A

Matrix: Solid

Analysis Batch: 103008

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09653		mg/Kg		97	70 - 130	13	35
Toluene	0.100	0.09142		mg/Kg		91	70 - 130	6	35
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130	21	35
m-Xylene & p-Xylene	0.200	0.2057		mg/Kg		103	70 - 130	21	35
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130	21	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: MB 880-102993/5-A

Matrix: Solid

Analysis Batch: 102911

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/17/25 16:31	02/18/25 11:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/25 16:31	02/18/25 11:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/17/25 16:31	02/18/25 11:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/17/25 16:31	02/18/25 11:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/17/25 16:31	02/18/25 11:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/17/25 16:31	02/18/25 11:07	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/17/25 16:31	02/18/25 11:07	1
1,4-Difluorobenzene (Surr)	90		70 - 130	02/17/25 16:31	02/18/25 11:07	1

Lab Sample ID: LCS 880-102993/1-A

Matrix: Solid

Analysis Batch: 102911

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09916		mg/Kg		99	70 - 130
Toluene	0.100	0.1028		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09408		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1962		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09893		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-102993/2-A

Matrix: Solid

Analysis Batch: 102911

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102993

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09661		mg/Kg		97	70 - 130	3	35
Toluene	0.100	0.09939		mg/Kg		99	70 - 130	3	35
Ethylbenzene	0.100	0.09035		mg/Kg		90	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1871		mg/Kg		94	70 - 130	5	35
o-Xylene	0.100	0.09447		mg/Kg		94	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-103020/5-A

Matrix: Solid

Analysis Batch: 103007

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/18/25 10:09	02/18/25 11:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/18/25 10:09	02/18/25 11:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/18/25 10:09	02/18/25 11:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/18/25 10:09	02/18/25 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/18/25 10:09	02/18/25 11:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/18/25 10:09	02/18/25 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/18/25 10:09	02/18/25 11:17	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/18/25 10:09	02/18/25 11:17	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-103020/1-A

Matrix: Solid

Analysis Batch: 103007

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1061		mg/Kg		106	70 - 130
Toluene	0.100	0.09302		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1008		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2108		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1053		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-103020/2-A

Matrix: Solid

Analysis Batch: 103007

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103020

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1007		mg/Kg		101	70 - 130	5	35
Toluene	0.100	0.08893		mg/Kg		89	70 - 130	4	35
Ethylbenzene	0.100	0.09642		mg/Kg		96	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2022		mg/Kg		101	70 - 130	4	35
o-Xylene	0.100	0.1014		mg/Kg		101	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-103133/5-A

Matrix: Solid

Analysis Batch: 103127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/19/25 08:44	02/19/25 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/19/25 08:44	02/19/25 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/19/25 08:44	02/19/25 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	02/19/25 08:44	02/19/25 11:39	1
1,4-Difluorobenzene (Surr)	81		70 - 130	02/19/25 08:44	02/19/25 11:39	1

Lab Sample ID: LCS 880-103133/1-A

Matrix: Solid

Analysis Batch: 103127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1127		mg/Kg		113	70 - 130
Toluene	0.100	0.1012		mg/Kg		101	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-103133/1-A

Matrix: Solid

Analysis Batch: 103127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.1033		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2362		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1142		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-103133/2-A

Matrix: Solid

Analysis Batch: 103127

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103133

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1086		mg/Kg		109	70 - 130	4	35
Toluene	0.100	0.09625		mg/Kg		96	70 - 130	5	35
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2224		mg/Kg		111	70 - 130	6	35
o-Xylene	0.100	0.1075		mg/Kg		107	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-102892/1-A

Matrix: Solid

Analysis Batch: 102928

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102892

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		02/16/25 20:29	02/17/25 09:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/16/25 20:29	02/17/25 09:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/25 20:29	02/17/25 09:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	02/16/25 20:29	02/17/25 09:20	1
o-Terphenyl	117		70 - 130	02/16/25 20:29	02/17/25 09:20	1

Lab Sample ID: LCS 880-102892/2-A

Matrix: Solid

Analysis Batch: 102928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1115		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1098		mg/Kg		110	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-102892/2-A

Matrix: Solid

Analysis Batch: 102928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102892

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: LCSD 880-102892/3-A

Matrix: Solid

Analysis Batch: 102928

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102892

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1130		mg/Kg		113	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1076		mg/Kg		108	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: MB 880-102893/1-A

Matrix: Solid

Analysis Batch: 102928

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102893

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		02/16/25 20:32	02/18/25 01:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/16/25 20:32	02/18/25 01:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/25 20:32	02/18/25 01:37	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	103		70 - 130	02/16/25 20:32	02/18/25 01:37	1
o-Terphenyl	93		70 - 130	02/16/25 20:32	02/18/25 01:37	1

Lab Sample ID: LCS 880-102893/2-A

Matrix: Solid

Analysis Batch: 102928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102893

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1295		mg/Kg		130	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1279		mg/Kg		128	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	97		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-102893/3-A

Matrix: Solid

Analysis Batch: 102928

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102893

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1057		mg/Kg		106	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	1124		mg/Kg		112	70 - 130	13	20
		LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	99		70 - 130						
o-Terphenyl	86		70 - 130						

Lab Sample ID: 890-7674-8 MS

Matrix: Solid

Analysis Batch: 102928

Client Sample ID: CS-8

Prep Type: Total/NA

Prep Batch: 102893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1	999	600.4	F1	mg/Kg		60	70 - 130		
Diesel Range Organics (Over C10-C28)	179	F1	999	724.2	F1	mg/Kg		55	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	153	S1+	70 - 130								
o-Terphenyl	129		70 - 130								

Lab Sample ID: 890-7674-8 MSD

Matrix: Solid

Analysis Batch: 102928

Client Sample ID: CS-8

Prep Type: Total/NA

Prep Batch: 102893

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	<49.7	U F1	999	623.9	F1	mg/Kg		62	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	179	F1	999	755.1	F1	mg/Kg		58	70 - 130	4	20
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	157	S1+	70 - 130								
o-Terphenyl	132	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102947/1-A

Matrix: Solid

Analysis Batch: 102961

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			02/17/25 18:11	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-102947/2-A

Matrix: Solid

Analysis Batch: 102961

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.7		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-102947/3-A

Matrix: Solid

Analysis Batch: 102961

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	255.5		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-102959/1-A

Matrix: Solid

Analysis Batch: 102968

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			02/17/25 19:39	1

Lab Sample ID: LCS 880-102959/2-A

Matrix: Solid

Analysis Batch: 102968

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-102959/3-A

Matrix: Solid

Analysis Batch: 102968

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	252.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-7674-4 MS

Matrix: Solid

Analysis Batch: 102968

Client Sample ID: CS-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	148		251	393.8		mg/Kg		98	90 - 110

Lab Sample ID: 890-7674-4 MSD

Matrix: Solid

Analysis Batch: 102968

Client Sample ID: CS-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	148		251	399.1		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-7674-14 MS

Matrix: Solid

Analysis Batch: 102968

Client Sample ID: CS-14

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	76.0		250	331.5		mg/Kg		102	90 - 110

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7674-14 MSD

Matrix: Solid

Analysis Batch: 102968

Client Sample ID: CS-14

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	76.0		250	325.7		mg/Kg		100	90 - 110	2	20

Lab Sample ID: MB 880-102960/1-A

Matrix: Solid

Analysis Batch: 102978

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			02/17/25 23:23	1

Lab Sample ID: LCS 880-102960/2-A

Matrix: Solid

Analysis Batch: 102978

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.3		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-102960/3-A

Matrix: Solid

Analysis Batch: 102978

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.5		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-7674-24 MS

Matrix: Solid

Analysis Batch: 102978

Client Sample ID: CS-24

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	18.4		249	266.0		mg/Kg		100	90 - 110

Lab Sample ID: 890-7674-24 MSD

Matrix: Solid

Analysis Batch: 102978

Client Sample ID: CS-24

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	18.4		249	267.2		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 102911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-21	CS-21	Total/NA	Solid	8021B	102993
890-7674-22	CS-22	Total/NA	Solid	8021B	102993
MB 880-102993/5-A	Method Blank	Total/NA	Solid	8021B	102993
LCS 880-102993/1-A	Lab Control Sample	Total/NA	Solid	8021B	102993
LCSD 880-102993/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102993

Analysis Batch: 102912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-21	CS-21	Total/NA	Solid	8021B	102917
890-7674-22	CS-22	Total/NA	Solid	8021B	102917
890-7674-23	CS-23	Total/NA	Solid	8021B	102917
890-7674-24	CS-24	Total/NA	Solid	8021B	102917
MB 880-102917/5-A	Method Blank	Total/NA	Solid	8021B	102917
LCS 880-102917/1-A	Lab Control Sample	Total/NA	Solid	8021B	102917
LCSD 880-102917/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102917

Analysis Batch: 102913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-25	CS-25	Total/NA	Solid	8021B	102919
890-7674-26	CS-26	Total/NA	Solid	8021B	102919
MB 880-102919/5-A	Method Blank	Total/NA	Solid	8021B	102919
LCS 880-102919/1-A	Lab Control Sample	Total/NA	Solid	8021B	102919
LCSD 880-102919/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102919

Prep Batch: 102917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-21	CS-21	Total/NA	Solid	5035	
890-7674-22	CS-22	Total/NA	Solid	5035	
890-7674-23	CS-23	Total/NA	Solid	5035	
890-7674-24	CS-24	Total/NA	Solid	5035	
MB 880-102917/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102917/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102917/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 102919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-25	CS-25	Total/NA	Solid	5035	
890-7674-26	CS-26	Total/NA	Solid	5035	
MB 880-102919/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102919/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102919/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 102969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-1	CS-1	Total/NA	Solid	5035	
890-7674-2	CS-2	Total/NA	Solid	5035	
890-7674-3	CS-3	Total/NA	Solid	5035	
890-7674-4	CS-4	Total/NA	Solid	5035	
890-7674-5	CS-5	Total/NA	Solid	5035	
890-7674-6	CS-6	Total/NA	Solid	5035	
890-7674-7	CS-7	Total/NA	Solid	5035	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 102969 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-8	CS-8	Total/NA	Solid	5035	
890-7674-9	CS-9	Total/NA	Solid	5035	
890-7674-10	CS-10	Total/NA	Solid	5035	
890-7674-27	CS-27	Total/NA	Solid	5035	
MB 880-102969/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102969/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102969/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 102993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-21	CS-21	Total/NA	Solid	5035	
890-7674-22	CS-22	Total/NA	Solid	5035	
MB 880-102993/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102993/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102993/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 103007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-11	CS-11	Total/NA	Solid	8021B	103020
890-7674-12	CS-12	Total/NA	Solid	8021B	103020
890-7674-13	CS-13	Total/NA	Solid	8021B	103020
890-7674-14	CS-14	Total/NA	Solid	8021B	103020
890-7674-15	CS-15	Total/NA	Solid	8021B	103020
890-7674-16	CS-16	Total/NA	Solid	8021B	103020
890-7674-17	CS-17	Total/NA	Solid	8021B	103020
890-7674-18	CS-18	Total/NA	Solid	8021B	103020
890-7674-19	CS-19	Total/NA	Solid	8021B	103020
890-7674-20	CS-20	Total/NA	Solid	8021B	103020
890-7674-23	CS-23	Total/NA	Solid	8021B	103020
MB 880-103020/5-A	Method Blank	Total/NA	Solid	8021B	103020
LCS 880-103020/1-A	Lab Control Sample	Total/NA	Solid	8021B	103020
LCSD 880-103020/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103020

Analysis Batch: 103008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-1	CS-1	Total/NA	Solid	8021B	102969
890-7674-2	CS-2	Total/NA	Solid	8021B	102969
890-7674-3	CS-3	Total/NA	Solid	8021B	102969
890-7674-4	CS-4	Total/NA	Solid	8021B	102969
890-7674-5	CS-5	Total/NA	Solid	8021B	102969
890-7674-6	CS-6	Total/NA	Solid	8021B	102969
890-7674-7	CS-7	Total/NA	Solid	8021B	102969
890-7674-8	CS-8	Total/NA	Solid	8021B	102969
890-7674-9	CS-9	Total/NA	Solid	8021B	102969
890-7674-10	CS-10	Total/NA	Solid	8021B	102969
890-7674-27	CS-27	Total/NA	Solid	8021B	102969
MB 880-102969/5-A	Method Blank	Total/NA	Solid	8021B	102969
LCS 880-102969/1-A	Lab Control Sample	Total/NA	Solid	8021B	102969
LCSD 880-102969/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102969

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

GC VOA

Prep Batch: 103020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-11	CS-11	Total/NA	Solid	5035	
890-7674-12	CS-12	Total/NA	Solid	5035	
890-7674-13	CS-13	Total/NA	Solid	5035	
890-7674-14	CS-14	Total/NA	Solid	5035	
890-7674-15	CS-15	Total/NA	Solid	5035	
890-7674-16	CS-16	Total/NA	Solid	5035	
890-7674-17	CS-17	Total/NA	Solid	5035	
890-7674-18	CS-18	Total/NA	Solid	5035	
890-7674-19	CS-19	Total/NA	Solid	5035	
890-7674-20	CS-20	Total/NA	Solid	5035	
890-7674-23	CS-23	Total/NA	Solid	5035	
MB 880-103020/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103020/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103020/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 103074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-1	CS-1	Total/NA	Solid	Total BTEX	
890-7674-2	CS-2	Total/NA	Solid	Total BTEX	
890-7674-3	CS-3	Total/NA	Solid	Total BTEX	
890-7674-4	CS-4	Total/NA	Solid	Total BTEX	
890-7674-5	CS-5	Total/NA	Solid	Total BTEX	
890-7674-6	CS-6	Total/NA	Solid	Total BTEX	
890-7674-7	CS-7	Total/NA	Solid	Total BTEX	
890-7674-8	CS-8	Total/NA	Solid	Total BTEX	
890-7674-9	CS-9	Total/NA	Solid	Total BTEX	
890-7674-10	CS-10	Total/NA	Solid	Total BTEX	
890-7674-11	CS-11	Total/NA	Solid	Total BTEX	
890-7674-12	CS-12	Total/NA	Solid	Total BTEX	
890-7674-13	CS-13	Total/NA	Solid	Total BTEX	
890-7674-14	CS-14	Total/NA	Solid	Total BTEX	
890-7674-15	CS-15	Total/NA	Solid	Total BTEX	
890-7674-16	CS-16	Total/NA	Solid	Total BTEX	
890-7674-17	CS-17	Total/NA	Solid	Total BTEX	
890-7674-18	CS-18	Total/NA	Solid	Total BTEX	
890-7674-19	CS-19	Total/NA	Solid	Total BTEX	
890-7674-20	CS-20	Total/NA	Solid	Total BTEX	
890-7674-21	CS-21	Total/NA	Solid	Total BTEX	
890-7674-22	CS-22	Total/NA	Solid	Total BTEX	
890-7674-23	CS-23	Total/NA	Solid	Total BTEX	
890-7674-24	CS-24	Total/NA	Solid	Total BTEX	
890-7674-25	CS-25	Total/NA	Solid	Total BTEX	
890-7674-26	CS-26	Total/NA	Solid	Total BTEX	
890-7674-27	CS-27	Total/NA	Solid	Total BTEX	

Analysis Batch: 103127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-22	CS-22	Total/NA	Solid	8021B	103133
MB 880-103133/5-A	Method Blank	Total/NA	Solid	8021B	103133
LCS 880-103133/1-A	Lab Control Sample	Total/NA	Solid	8021B	103133
LCSD 880-103133/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103133

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

GC VOA

Prep Batch: 103133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-22	CS-22	Total/NA	Solid	5035	
MB 880-103133/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103133/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103133/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 102892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-1	CS-1	Total/NA	Solid	8015NM Prep	
890-7674-2	CS-2	Total/NA	Solid	8015NM Prep	
890-7674-3	CS-3	Total/NA	Solid	8015NM Prep	
890-7674-4	CS-4	Total/NA	Solid	8015NM Prep	
890-7674-5	CS-5	Total/NA	Solid	8015NM Prep	
890-7674-6	CS-6	Total/NA	Solid	8015NM Prep	
890-7674-7	CS-7	Total/NA	Solid	8015NM Prep	
MB 880-102892/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102892/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102892/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 102893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-8	CS-8	Total/NA	Solid	8015NM Prep	
890-7674-9	CS-9	Total/NA	Solid	8015NM Prep	
890-7674-10	CS-10	Total/NA	Solid	8015NM Prep	
890-7674-11	CS-11	Total/NA	Solid	8015NM Prep	
890-7674-12	CS-12	Total/NA	Solid	8015NM Prep	
890-7674-13	CS-13	Total/NA	Solid	8015NM Prep	
890-7674-14	CS-14	Total/NA	Solid	8015NM Prep	
890-7674-15	CS-15	Total/NA	Solid	8015NM Prep	
890-7674-16	CS-16	Total/NA	Solid	8015NM Prep	
890-7674-17	CS-17	Total/NA	Solid	8015NM Prep	
890-7674-18	CS-18	Total/NA	Solid	8015NM Prep	
890-7674-19	CS-19	Total/NA	Solid	8015NM Prep	
890-7674-20	CS-20	Total/NA	Solid	8015NM Prep	
890-7674-21	CS-21	Total/NA	Solid	8015NM Prep	
890-7674-22	CS-22	Total/NA	Solid	8015NM Prep	
890-7674-23	CS-23	Total/NA	Solid	8015NM Prep	
890-7674-24	CS-24	Total/NA	Solid	8015NM Prep	
890-7674-25	CS-25	Total/NA	Solid	8015NM Prep	
890-7674-26	CS-26	Total/NA	Solid	8015NM Prep	
890-7674-27	CS-27	Total/NA	Solid	8015NM Prep	
MB 880-102893/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102893/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102893/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7674-8 MS	CS-8	Total/NA	Solid	8015NM Prep	
890-7674-8 MSD	CS-8	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-1	CS-1	Total/NA	Solid	8015B NM	102892

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 102928 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-2	CS-2	Total/NA	Solid	8015B NM	102892
890-7674-3	CS-3	Total/NA	Solid	8015B NM	102892
890-7674-4	CS-4	Total/NA	Solid	8015B NM	102892
890-7674-5	CS-5	Total/NA	Solid	8015B NM	102892
890-7674-6	CS-6	Total/NA	Solid	8015B NM	102892
890-7674-7	CS-7	Total/NA	Solid	8015B NM	102892
890-7674-8	CS-8	Total/NA	Solid	8015B NM	102893
890-7674-9	CS-9	Total/NA	Solid	8015B NM	102893
890-7674-10	CS-10	Total/NA	Solid	8015B NM	102893
890-7674-11	CS-11	Total/NA	Solid	8015B NM	102893
890-7674-12	CS-12	Total/NA	Solid	8015B NM	102893
890-7674-13	CS-13	Total/NA	Solid	8015B NM	102893
890-7674-14	CS-14	Total/NA	Solid	8015B NM	102893
890-7674-15	CS-15	Total/NA	Solid	8015B NM	102893
890-7674-16	CS-16	Total/NA	Solid	8015B NM	102893
890-7674-17	CS-17	Total/NA	Solid	8015B NM	102893
890-7674-18	CS-18	Total/NA	Solid	8015B NM	102893
890-7674-19	CS-19	Total/NA	Solid	8015B NM	102893
890-7674-20	CS-20	Total/NA	Solid	8015B NM	102893
890-7674-21	CS-21	Total/NA	Solid	8015B NM	102893
890-7674-22	CS-22	Total/NA	Solid	8015B NM	102893
890-7674-23	CS-23	Total/NA	Solid	8015B NM	102893
890-7674-24	CS-24	Total/NA	Solid	8015B NM	102893
890-7674-25	CS-25	Total/NA	Solid	8015B NM	102893
890-7674-26	CS-26	Total/NA	Solid	8015B NM	102893
890-7674-27	CS-27	Total/NA	Solid	8015B NM	102893
MB 880-102892/1-A	Method Blank	Total/NA	Solid	8015B NM	102892
MB 880-102893/1-A	Method Blank	Total/NA	Solid	8015B NM	102893
LCS 880-102892/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102892
LCS 880-102893/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102893
LCSD 880-102892/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102892
LCSD 880-102893/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102893
890-7674-8 MS	CS-8	Total/NA	Solid	8015B NM	102893
890-7674-8 MSD	CS-8	Total/NA	Solid	8015B NM	102893

Analysis Batch: 103066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-1	CS-1	Total/NA	Solid	8015 NM	
890-7674-2	CS-2	Total/NA	Solid	8015 NM	
890-7674-3	CS-3	Total/NA	Solid	8015 NM	
890-7674-4	CS-4	Total/NA	Solid	8015 NM	
890-7674-5	CS-5	Total/NA	Solid	8015 NM	
890-7674-6	CS-6	Total/NA	Solid	8015 NM	
890-7674-7	CS-7	Total/NA	Solid	8015 NM	
890-7674-8	CS-8	Total/NA	Solid	8015 NM	
890-7674-9	CS-9	Total/NA	Solid	8015 NM	
890-7674-10	CS-10	Total/NA	Solid	8015 NM	
890-7674-11	CS-11	Total/NA	Solid	8015 NM	
890-7674-12	CS-12	Total/NA	Solid	8015 NM	
890-7674-13	CS-13	Total/NA	Solid	8015 NM	
890-7674-14	CS-14	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 103066 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-15	CS-15	Total/NA	Solid	8015 NM	
890-7674-16	CS-16	Total/NA	Solid	8015 NM	
890-7674-17	CS-17	Total/NA	Solid	8015 NM	
890-7674-18	CS-18	Total/NA	Solid	8015 NM	
890-7674-19	CS-19	Total/NA	Solid	8015 NM	
890-7674-20	CS-20	Total/NA	Solid	8015 NM	
890-7674-21	CS-21	Total/NA	Solid	8015 NM	
890-7674-22	CS-22	Total/NA	Solid	8015 NM	
890-7674-23	CS-23	Total/NA	Solid	8015 NM	
890-7674-24	CS-24	Total/NA	Solid	8015 NM	
890-7674-25	CS-25	Total/NA	Solid	8015 NM	
890-7674-26	CS-26	Total/NA	Solid	8015 NM	
890-7674-27	CS-27	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-1	CS-1	Soluble	Solid	DI Leach	
890-7674-2	CS-2	Soluble	Solid	DI Leach	
890-7674-3	CS-3	Soluble	Solid	DI Leach	
MB 880-102947/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102947/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102947/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 102959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-4	CS-4	Soluble	Solid	DI Leach	
890-7674-5	CS-5	Soluble	Solid	DI Leach	
890-7674-6	CS-6	Soluble	Solid	DI Leach	
890-7674-7	CS-7	Soluble	Solid	DI Leach	
890-7674-8	CS-8	Soluble	Solid	DI Leach	
890-7674-9	CS-9	Soluble	Solid	DI Leach	
890-7674-10	CS-10	Soluble	Solid	DI Leach	
890-7674-11	CS-11	Soluble	Solid	DI Leach	
890-7674-12	CS-12	Soluble	Solid	DI Leach	
890-7674-13	CS-13	Soluble	Solid	DI Leach	
890-7674-14	CS-14	Soluble	Solid	DI Leach	
890-7674-15	CS-15	Soluble	Solid	DI Leach	
890-7674-16	CS-16	Soluble	Solid	DI Leach	
890-7674-17	CS-17	Soluble	Solid	DI Leach	
890-7674-18	CS-18	Soluble	Solid	DI Leach	
890-7674-19	CS-19	Soluble	Solid	DI Leach	
890-7674-20	CS-20	Soluble	Solid	DI Leach	
890-7674-21	CS-21	Soluble	Solid	DI Leach	
890-7674-22	CS-22	Soluble	Solid	DI Leach	
890-7674-23	CS-23	Soluble	Solid	DI Leach	
MB 880-102959/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102959/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102959/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7674-4 MS	CS-4	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 102959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-4 MSD	CS-4	Soluble	Solid	DI Leach	
890-7674-14 MS	CS-14	Soluble	Solid	DI Leach	
890-7674-14 MSD	CS-14	Soluble	Solid	DI Leach	

Leach Batch: 102960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-24	CS-24	Soluble	Solid	DI Leach	
890-7674-25	CS-25	Soluble	Solid	DI Leach	
890-7674-26	CS-26	Soluble	Solid	DI Leach	
890-7674-27	CS-27	Soluble	Solid	DI Leach	
MB 880-102960/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102960/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102960/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7674-24 MS	CS-24	Soluble	Solid	DI Leach	
890-7674-24 MSD	CS-24	Soluble	Solid	DI Leach	

Analysis Batch: 102961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-1	CS-1	Soluble	Solid	300.0	102947
890-7674-2	CS-2	Soluble	Solid	300.0	102947
890-7674-3	CS-3	Soluble	Solid	300.0	102947
MB 880-102947/1-A	Method Blank	Soluble	Solid	300.0	102947
LCS 880-102947/2-A	Lab Control Sample	Soluble	Solid	300.0	102947
LCSD 880-102947/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102947

Analysis Batch: 102968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-4	CS-4	Soluble	Solid	300.0	102959
890-7674-5	CS-5	Soluble	Solid	300.0	102959
890-7674-6	CS-6	Soluble	Solid	300.0	102959
890-7674-7	CS-7	Soluble	Solid	300.0	102959
890-7674-8	CS-8	Soluble	Solid	300.0	102959
890-7674-9	CS-9	Soluble	Solid	300.0	102959
890-7674-10	CS-10	Soluble	Solid	300.0	102959
890-7674-11	CS-11	Soluble	Solid	300.0	102959
890-7674-12	CS-12	Soluble	Solid	300.0	102959
890-7674-13	CS-13	Soluble	Solid	300.0	102959
890-7674-14	CS-14	Soluble	Solid	300.0	102959
890-7674-15	CS-15	Soluble	Solid	300.0	102959
890-7674-16	CS-16	Soluble	Solid	300.0	102959
890-7674-17	CS-17	Soluble	Solid	300.0	102959
890-7674-18	CS-18	Soluble	Solid	300.0	102959
890-7674-19	CS-19	Soluble	Solid	300.0	102959
890-7674-20	CS-20	Soluble	Solid	300.0	102959
890-7674-21	CS-21	Soluble	Solid	300.0	102959
890-7674-22	CS-22	Soluble	Solid	300.0	102959
890-7674-23	CS-23	Soluble	Solid	300.0	102959
MB 880-102959/1-A	Method Blank	Soluble	Solid	300.0	102959
LCS 880-102959/2-A	Lab Control Sample	Soluble	Solid	300.0	102959
LCSD 880-102959/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102959
890-7674-4 MS	CS-4	Soluble	Solid	300.0	102959

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 102968 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-4 MSD	CS-4	Soluble	Solid	300.0	102959
890-7674-14 MS	CS-14	Soluble	Solid	300.0	102959
890-7674-14 MSD	CS-14	Soluble	Solid	300.0	102959

Analysis Batch: 102978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7674-24	CS-24	Soluble	Solid	300.0	102960
890-7674-25	CS-25	Soluble	Solid	300.0	102960
890-7674-26	CS-26	Soluble	Solid	300.0	102960
890-7674-27	CS-27	Soluble	Solid	300.0	102960
MB 880-102960/1-A	Method Blank	Soluble	Solid	300.0	102960
LCS 880-102960/2-A	Lab Control Sample	Soluble	Solid	300.0	102960
LCSD 880-102960/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102960
890-7674-24 MS	CS-24	Soluble	Solid	300.0	102960
890-7674-24 MSD	CS-24	Soluble	Solid	300.0	102960

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-1

Lab Sample ID: 890-7674-1

Date Collected: 02/13/25 10:30

Matrix: Solid

Date Received: 02/14/25 15:20

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	102969	02/18/25 13:54	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	103008	02/18/25 16:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 16:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/17/25 15:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102892	02/16/25 20:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/17/25 15:12	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	102947	02/17/25 11:33	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102961	02/17/25 21:15	SMC	EET MID

Client Sample ID: CS-2

Lab Sample ID: 890-7674-2

Date Collected: 02/13/25 10:35

Matrix: Solid

Date Received: 02/14/25 15:20

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	102969	02/18/25 13:54	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	103008	02/18/25 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 16:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/17/25 15:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	102892	02/16/25 20:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/17/25 15:28	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102947	02/17/25 11:33	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102961	02/17/25 21:24	SMC	EET MID

Client Sample ID: CS-3

Lab Sample ID: 890-7674-3

Date Collected: 02/13/25 10:40

Matrix: Solid

Date Received: 02/14/25 15:20

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	102969	02/18/25 13:54	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	103008	02/18/25 17:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 17:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/17/25 15:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102892	02/16/25 20:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/17/25 15:43	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102947	02/17/25 11:33	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102961	02/17/25 21:52	SMC	EET MID

Client Sample ID: CS-4

Lab Sample ID: 890-7674-4

Date Collected: 02/13/25 10:45

Matrix: Solid

Date Received: 02/14/25 15:20

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	102969	02/18/25 13:54	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	103008	02/18/25 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 17:22	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-4

Lab Sample ID: 890-7674-4

Date Collected: 02/13/25 10:45

Matrix: Solid

Date Received: 02/14/25 15:20

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			103066	02/17/25 15:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102892	02/16/25 20:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/17/25 15:58	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 20:01	SMC	EET MID

Client Sample ID: CS-5

Lab Sample ID: 890-7674-5

Date Collected: 02/13/25 10:50

Matrix: Solid

Date Received: 02/14/25 15:20

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	102969	02/18/25 13:54	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	103008	02/18/25 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 17:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/17/25 16:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102892	02/16/25 20:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/17/25 16:13	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 20:24	SMC	EET MID

Client Sample ID: CS-6

Lab Sample ID: 890-7674-6

Date Collected: 02/13/25 10:55

Matrix: Solid

Date Received: 02/14/25 15:20

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	102969	02/18/25 13:54	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	103008	02/18/25 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 18:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/17/25 16:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102892	02/16/25 20:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/17/25 16:29	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 20:31	SMC	EET MID

Client Sample ID: CS-7

Lab Sample ID: 890-7674-7

Date Collected: 02/13/25 11:00

Matrix: Solid

Date Received: 02/14/25 15:20

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	102969	02/18/25 13:54	MNR	EET MID
Total/NA	Analysis	8021B		5	5 mL	5 mL	103008	02/18/25 18:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 18:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/17/25 16:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102892	02/16/25 20:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/17/25 16:43	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-7

Lab Sample ID: 890-7674-7

Date Collected: 02/13/25 11:00

Matrix: Solid

Date Received: 02/14/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 20:39	SMC	EET MID

Client Sample ID: CS-8

Lab Sample ID: 890-7674-8

Date Collected: 02/13/25 11:05

Matrix: Solid

Date Received: 02/14/25 15:20

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	102969	02/18/25 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103008	02/18/25 16:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 16:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 02:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 02:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 20:46	SMC	EET MID

Client Sample ID: CS-9

Lab Sample ID: 890-7674-9

Date Collected: 02/13/25 11:10

Matrix: Solid

Date Received: 02/14/25 15:20

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	102969	02/18/25 13:54	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	103008	02/18/25 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 18:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 03:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 03:07	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 21:08	SMC	EET MID

Client Sample ID: CS-10

Lab Sample ID: 890-7674-10

Date Collected: 02/13/25 11:15

Matrix: Solid

Date Received: 02/14/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	102969	02/18/25 13:54	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	103008	02/18/25 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 19:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 03:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 03:22	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 21:16	SMC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-11

Lab Sample ID: 890-7674-11

Date Collected: 02/13/25 11:20

Matrix: Solid

Date Received: 02/14/25 15:20

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	103020	02/18/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	103007	02/18/25 16:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 16:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 03:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 03:37	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 21:23	SMC	EET MID

Client Sample ID: CS-12

Lab Sample ID: 890-7674-12

Date Collected: 02/13/25 11:25

Matrix: Solid

Date Received: 02/14/25 15:20

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	103020	02/18/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	103007	02/18/25 16:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 16:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 03:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 03:53	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 21:31	SMC	EET MID

Client Sample ID: CS-13

Lab Sample ID: 890-7674-13

Date Collected: 02/13/25 11:30

Matrix: Solid

Date Received: 02/14/25 15:20

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	103020	02/18/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	103007	02/18/25 16:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 16:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 04:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 04:08	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 21:38	SMC	EET MID

Client Sample ID: CS-14

Lab Sample ID: 890-7674-14

Date Collected: 02/13/25 11:35

Matrix: Solid

Date Received: 02/14/25 15:20

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	103020	02/18/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	103007	02/18/25 17:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 17:20	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-14

Lab Sample ID: 890-7674-14

Date Collected: 02/13/25 11:35

Matrix: Solid

Date Received: 02/14/25 15:20

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			103066	02/18/25 04:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 04:23	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 21:46	SMC	EET MID

Client Sample ID: CS-15

Lab Sample ID: 890-7674-15

Date Collected: 02/13/25 11:40

Matrix: Solid

Date Received: 02/14/25 15:20

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	103020	02/18/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	103007	02/18/25 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 17:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 04:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 04:38	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 22:08	SMC	EET MID

Client Sample ID: CS-16

Lab Sample ID: 890-7674-16

Date Collected: 02/13/25 11:45

Matrix: Solid

Date Received: 02/14/25 15:20

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	103020	02/18/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	103007	02/18/25 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 18:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 04:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 04:53	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 22:15	SMC	EET MID

Client Sample ID: CS-17

Lab Sample ID: 890-7674-17

Date Collected: 02/13/25 11:50

Matrix: Solid

Date Received: 02/14/25 15:20

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	103020	02/18/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	103007	02/18/25 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 18:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 05:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 05:09	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-17

Lab Sample ID: 890-7674-17

Date Collected: 02/13/25 11:50

Matrix: Solid

Date Received: 02/14/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 22:38	SMC	EET MID

Client Sample ID: CS-18

Lab Sample ID: 890-7674-18

Date Collected: 02/13/25 11:55

Matrix: Solid

Date Received: 02/14/25 15:20

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	103020	02/18/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	103007	02/18/25 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 18:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 05:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 05:39	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 22:45	SMC	EET MID

Client Sample ID: CS-19

Lab Sample ID: 890-7674-19

Date Collected: 02/13/25 12:00

Matrix: Solid

Date Received: 02/14/25 15:20

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	103020	02/18/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		5	5 mL	5 mL	103007	02/18/25 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 19:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 05:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 05:53	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 22:53	SMC	EET MID

Client Sample ID: CS-20

Lab Sample ID: 890-7674-20

Date Collected: 02/13/25 12:05

Matrix: Solid

Date Received: 02/14/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103020	02/18/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		5	5 mL	5 mL	103007	02/18/25 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 19:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 06:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 06:08	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 23:00	SMC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-21**Lab Sample ID: 890-7674-21****Date Collected: 02/13/25 12:10****Matrix: Solid****Date Received: 02/14/25 15:20**

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	102917	02/17/25 08:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102912	02/17/25 18:26	MNR	EET MID
Total/NA	Prep	5035			5.04 g	5 mL	102993	02/17/25 16:31	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	102911	02/18/25 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 13:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 06:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 06:22	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 23:07	SMC	EET MID

Client Sample ID: CS-22**Lab Sample ID: 890-7674-22****Date Collected: 02/13/25 12:15****Matrix: Solid****Date Received: 02/14/25 15:20**

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	102917	02/17/25 08:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102912	02/17/25 18:46	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	103133	02/19/25 08:44	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	103127	02/19/25 15:04	MNR	EET MID
Total/NA	Prep	5035			5.01 g	5 mL	102993	02/17/25 16:31	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	102911	02/18/25 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/19/25 15:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 06:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 06:37	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/18/25 08:27	SMC	EET MID

Client Sample ID: CS-23**Lab Sample ID: 890-7674-23****Date Collected: 02/13/25 12:20****Matrix: Solid****Date Received: 02/14/25 15:20**

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	103020	02/18/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103007	02/18/25 14:43	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	102917	02/17/25 08:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102912	02/17/25 19:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 14:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 06:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 06:52	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102959	02/17/25 13:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102968	02/17/25 23:17	SMC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-24**Lab Sample ID: 890-7674-24****Date Collected: 02/13/25 12:25****Matrix: Solid****Date Received: 02/14/25 15:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	102917	02/17/25 08:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102912	02/17/25 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/17/25 19:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 07:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 07:07	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102960	02/17/25 13:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102978	02/17/25 23:51	SMC	EET MID

Client Sample ID: CS-25**Lab Sample ID: 890-7674-25****Date Collected: 02/13/25 12:30****Matrix: Solid****Date Received: 02/14/25 15:20**

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	102919	02/17/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102913	02/17/25 18:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/17/25 18:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 07:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 07:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102960	02/17/25 13:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102978	02/18/25 00:18	SMC	EET MID

Client Sample ID: CS-26**Lab Sample ID: 890-7674-26****Date Collected: 02/13/25 12:35****Matrix: Solid****Date Received: 02/14/25 15:20**

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	102919	02/17/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102913	02/17/25 19:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/17/25 19:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103066	02/18/25 07:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 07:36	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102960	02/17/25 13:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102978	02/18/25 00:28	SMC	EET MID

Client Sample ID: CS-27**Lab Sample ID: 890-7674-27****Date Collected: 02/13/25 12:40****Matrix: Solid****Date Received: 02/14/25 15:20**

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	102969	02/17/25 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103008	02/18/25 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103074	02/18/25 14:36	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Client Sample ID: CS-27
Date Collected: 02/13/25 12:40
Date Received: 02/14/25 15:20

Lab Sample ID: 890-7674-27
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			103066	02/18/25 07:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102893	02/16/25 20:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102928	02/18/25 07:51	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102960	02/17/25 13:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102978	02/18/25 00:37	SMC	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: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
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: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
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: CTB-317 (SW Crude 6in)

Job ID: 890-7674-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7674-1	CS-1	Solid	02/13/25 10:30	02/14/25 15:20	1
890-7674-2	CS-2	Solid	02/13/25 10:35	02/14/25 15:20	1
890-7674-3	CS-3	Solid	02/13/25 10:40	02/14/25 15:20	1
890-7674-4	CS-4	Solid	02/13/25 10:45	02/14/25 15:20	1
890-7674-5	CS-5	Solid	02/13/25 10:50	02/14/25 15:20	1
890-7674-6	CS-6	Solid	02/13/25 10:55	02/14/25 15:20	1
890-7674-7	CS-7	Solid	02/13/25 11:00	02/14/25 15:20	1
890-7674-8	CS-8	Solid	02/13/25 11:05	02/14/25 15:20	1
890-7674-9	CS-9	Solid	02/13/25 11:10	02/14/25 15:20	1
890-7674-10	CS-10	Solid	02/13/25 11:15	02/14/25 15:20	1
890-7674-11	CS-11	Solid	02/13/25 11:20	02/14/25 15:20	1
890-7674-12	CS-12	Solid	02/13/25 11:25	02/14/25 15:20	1
890-7674-13	CS-13	Solid	02/13/25 11:30	02/14/25 15:20	1
890-7674-14	CS-14	Solid	02/13/25 11:35	02/14/25 15:20	1
890-7674-15	CS-15	Solid	02/13/25 11:40	02/14/25 15:20	1
890-7674-16	CS-16	Solid	02/13/25 11:45	02/14/25 15:20	1
890-7674-17	CS-17	Solid	02/13/25 11:50	02/14/25 15:20	1
890-7674-18	CS-18	Solid	02/13/25 11:55	02/14/25 15:20	1
890-7674-19	CS-19	Solid	02/13/25 12:00	02/14/25 15:20	1
890-7674-20	CS-20	Solid	02/13/25 12:05	02/14/25 15:20	1
890-7674-21	CS-21	Solid	02/13/25 12:10	02/14/25 15:20	1
890-7674-22	CS-22	Solid	02/13/25 12:15	02/14/25 15:20	1
890-7674-23	CS-23	Solid	02/13/25 12:20	02/14/25 15:20	1
890-7674-24	CS-24	Solid	02/13/25 12:25	02/14/25 15:20	1
890-7674-25	CS-25	Solid	02/13/25 12:30	02/14/25 15:20	1
890-7674-26	CS-26	Solid	02/13/25 12:35	02/14/25 15:20	1
890-7674-27	CS-27	Solid	02/13/25 12:40	02/14/25 15:20	1



Environment Testing
Xenoco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3343
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 86220	City, State ZIP:	
Phone:	832-541-7719	Email:	jmoreno@earthsys.net

Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other: _____



890-7674 Chain of Custody

Notes

Project Name:		CTB-317 (SW Crude 6in)		Turn Around		ANALYSIS REQUEST													Preservative Codes	
Project Number:	2825	☒ Routine	☐ Rush	Pres. Code													None: NO	DI Water: H ₂ O		
Project Location:	Lea County, NM	Due Date:	5-Day 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		
POW/O #:																	H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	☒ Yes ☐ No	Well Ice:	☒ Yes ☐ No	Parameters										H ₃ PO ₄ : HP				
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	11111111														NaHSO ₄ : NABIS			
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:	0.2														Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:	1.5														Zn Acetate+NaOH: Zn			
Total Containers:		Corrected Temperature:	1.6														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	
CS-1	S	2.13.2025	10:30	1	Comp	1	1	X	X	X							Incident Number			
CS-2	S	2.13.2025	10:35	1	Comp	1	1	X	X	X							nAPP2431159375			
CS-3	S	2.13.2025	10:40	1	Comp	1	1	X	X	X										
CS-4	S	2.13.2025	10:45	1	Comp	1	1	X	X	X										
CS-5	S	2.13.2025	10:50	1	Comp	1	1	X	X	X										
CS-6	S	2.13.2025	10:55	1	Comp	1	1	X	X	X										
CS-7	S	2.13.2025	11:00	1	Comp	1	1	X	X	X										
CS-8	S	2.13.2025	11:05	1	Comp	1	1	X	X	X										
CS-9	S	2.13.2025	11:10	1	Comp	1	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 SiO ₂ Na Sr Ti Sn U V Zn																
Gravel Method(s) and Metal(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.																				
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<i>[Signature]</i>	<i>[Signature]</i>	11:26 2/13/25	<i>[Signature]</i>	<i>[Signature]</i>	4															
					6															
Revised Date: 08/25/2020 Rev. 2020.																				



Environment Testing
Xenco

Chain of Custody

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

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:		Turn Around		ANALYSIS REQUEST																Preservative Codes	
Project Number:	CTB-317 (SW Crude 6in)	2825	☒ Routine ☐ Rush	Pres. Code																None: NO	DI Water: H ₂ O
Project Location:	Lea County, NM	Due Date:	5-Day 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 #:																				H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT				Parameters																H ₃ PO ₄ : HP	
Samples Received Intact:	Yes	No	Thermometer ID:																	Na ₂ S ₂ O ₃ : NaSO ₃	
Cooler Custody Seals:	Yes	No	Correction Factor:																	Zn Acetate+NaOH: Zn	
Sample Custody Seals:	Yes	No	Temperature Reading:																	NaOH+Ascorbic Acid: SAFC	
Total Containers:			Corrected Temperature:																		
Sample Identification				Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush							
	CS-10	S	2.13.2025	11:15	1	Comp	1	X	X	X	X										
	CS-11	S	2.13.2025	11:20	1	Comp	1	X	X	X	X										
	CS-12	S	2.13.2025	11:25	1	Comp	1	X	X	X	X										
	CS-13	S	2.13.2025	11:30	1	Comp	1	X	X	X	X										
	CS-14	S	2.13.2025	11:35	1	Comp	1	X	X	X	X										
	CS-15	S	2.13.2025	11:40	1	Comp	1	X	X	X	X										
	CS-16	S	2.13.2025	11:45	1	Comp	1	X	X	X	X										
	CS-17	S	2.13.2025	11:50	1	Comp	1	X	X	X	X										
	CS-18	S	2.13.2025	11:55	1	Comp	1	X	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 Metal(s) to be analyzed: Hg: 1631 / 245.1 / 7470 / 7471

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		15-Mar-2025 9:46:2			4
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Environment Testing
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Chain of Custody

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

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____	
--	--

Project Name:	CTB-317 (SW Crude 6in)	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	2825	Due Date:	5-Day TAT		
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sample's Name:	Gilbert Moreno				
POWOW #:					
SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes
Samples Received Intact:	Yes	No	Thermometer ID:		
Cooler Custody Seals:	Yes	No	Correction Factor:		
Sample Custody Seals:	Yes	No	Temperature Reading:		
Total Containers:	Yes	No	Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	ANALYSIS REQUEST																Sample Comments
							TPH -NM	Chloride -NM	BTEX -NM	Hold	24 Hr Rush												
CS-19	S	2.13.2025	12:00	1	Comp	1	X	X	X														Incident Number nAPP2431159375
CS-20	S	2.13.2025	12:05	1	Comp	1	X	X	X														
CS-21	S	2.13.2025	12:10	1	Comp	1	X	X	X														
CS-22	S	2.13.2025	12:15	1	Comp	1	X	X	X														
CS-23	S	2.13.2025	12:20	1	Comp	1	X	X	X														
CS-24	S	2.13.2025	12:25	1	Comp	1	X	X	X														
CS-25	S	2.13.2025	12:30	1	Comp	1	X	X	X														
CS-26	S	2.13.2025	12:35	1	Comp	1	X	X	X														
CS-27	S	2.13.2025	12:40	1	Comp	1	X	X	X														

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 A1 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 / 7470 / 7471

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<i>[Signature]</i>	<i>[Signature]</i>	2/26/25	<i>[Signature]</i>	<i>[Signature]</i>	2/26/25

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7674-1

SDG Number: Lea County, NM

Login Number: 7674

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: 890-7674-1

SDG Number: Lea County, NM

Login Number: 7674

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/15/25 04:30 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	



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

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JOB DESCRIPTION

CTB -317 (SW Crude 6in)
Lea County, NM

JOB NUMBER

890-7677-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



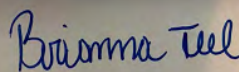
Eurofins Carlsbad

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

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Laboratory Job ID: 890-7677-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1

Job ID: 890-7677-1

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Job Narrative 890-7677-1

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 2/14/2025 3:20 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 1.6°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-1 (890-7677-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-102990 and analytical batch 880-102926 was outside the upper control limits.

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

HPLC/IC

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

Client Sample ID: SW-1

Lab Sample ID: 890-7677-1

Date Collected: 02/13/25 12:45

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 0-1

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		02/17/25 11:00	02/17/25 13:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/25 11:00	02/17/25 13:50	1
Ethylbenzene	0.0245		0.00200		mg/Kg		02/17/25 11:00	02/17/25 13:50	1
m-Xylene & p-Xylene	0.0942		0.00399		mg/Kg		02/17/25 11:00	02/17/25 13:50	1
o-Xylene	0.0294		0.00200		mg/Kg		02/17/25 11:00	02/17/25 13:50	1
Xylenes, Total	0.124		0.00399		mg/Kg		02/17/25 11:00	02/17/25 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	205	S1+	70 - 130	02/17/25 11:00	02/17/25 13:50	1
1,4-Difluorobenzene (Surr)	116		70 - 130	02/17/25 11:00	02/17/25 13:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.148		0.00399		mg/Kg			02/17/25 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	213		49.9		mg/Kg			02/17/25 22:52	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		02/17/25 16:28	02/17/25 22:52	1
Diesel Range Organics (Over C10-C28)	213		49.9		mg/Kg		02/17/25 16:28	02/17/25 22:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/17/25 16:28	02/17/25 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	02/17/25 16:28	02/17/25 22:52	1
o-Terphenyl	90		70 - 130	02/17/25 16:28	02/17/25 22:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.5		10.1		mg/Kg			02/18/25 01:14	1

Client Sample ID: SW-2

Lab Sample ID: 890-7677-2

Date Collected: 02/13/25 12:50

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 0-1

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		02/17/25 11:00	02/17/25 14:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/17/25 11:00	02/17/25 14:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/17/25 11:00	02/17/25 14:11	1
m-Xylene & p-Xylene	0.00567		0.00397		mg/Kg		02/17/25 11:00	02/17/25 14:11	1
o-Xylene	0.00272		0.00198		mg/Kg		02/17/25 11:00	02/17/25 14:11	1
Xylenes, Total	0.00839		0.00397		mg/Kg		02/17/25 11:00	02/17/25 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	02/17/25 11:00	02/17/25 14:11	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

Client Sample ID: SW-2

Lab Sample ID: 890-7677-2

Date Collected: 02/13/25 12:50

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 0-1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	112		70 - 130	02/17/25 11:00	02/17/25 14:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00839		0.00397		mg/Kg			02/17/25 14:11	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			02/17/25 23:07	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		02/17/25 16:28	02/17/25 23:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/17/25 16:28	02/17/25 23:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/17/25 16:28	02/17/25 23:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				02/17/25 16:28	02/17/25 23:07	1
o-Terphenyl	80		70 - 130				02/17/25 16:28	02/17/25 23:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.6		9.94		mg/Kg			02/18/25 01:23	1

Client Sample ID: SW-3

Lab Sample ID: 890-7677-3

Date Collected: 02/13/25 12:55

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 0-1

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		02/18/25 10:17	02/18/25 19:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/18/25 10:17	02/18/25 19:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/18/25 10:17	02/18/25 19:20	1
m-Xylene & p-Xylene	0.0864		0.00398		mg/Kg		02/18/25 10:17	02/18/25 19:20	1
o-Xylene	0.0258		0.00199		mg/Kg		02/18/25 10:17	02/18/25 19:20	1
Xylenes, Total	0.112		0.00398		mg/Kg		02/18/25 10:17	02/18/25 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	02/18/25 10:17	02/18/25 19:20	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/18/25 10:17	02/18/25 19:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.112		0.00398		mg/Kg			02/18/25 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	267		49.9		mg/Kg			02/17/25 23:23	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

Client Sample ID: SW-3

Lab Sample ID: 890-7677-3

Date Collected: 02/13/25 12:55

Matrix: Solid

Date Received: 02/14/25 15:20

Sample Depth: 0-1

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		02/17/25 16:28	02/17/25 23:23	1
Diesel Range Organics (Over C10-C28)	267		49.9		mg/Kg		02/17/25 16:28	02/17/25 23:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/17/25 16:28	02/17/25 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/17/25 16:28	02/17/25 23:23	1
o-Terphenyl	84		70 - 130				02/17/25 16:28	02/17/25 23:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9		9.92		mg/Kg			02/18/25 01:32	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
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)
890-7677-1	SW-1	205 S1+	116
890-7677-2	SW-2	115	112
890-7677-3	SW-3	121	96
LCS 880-102919/1-A	Lab Control Sample	97	108
LCS 880-103021/1-A	Lab Control Sample	121	104
LCSD 880-102919/2-A	Lab Control Sample Dup	97	109
LCSD 880-103021/2-A	Lab Control Sample Dup	107	96
MB 880-102919/5-A	Method Blank	100	95
MB 880-103021/5-A	Method Blank	100	88
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)
890-7677-1	SW-1	97	90
890-7677-2	SW-2	90	80
890-7677-3	SW-3	92	84
LCS 880-102990/2-A	Lab Control Sample	99	88
LCSD 880-102990/3-A	Lab Control Sample Dup	111	99
MB 880-102990/1-A	Method Blank	145 S1+	133 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102919/5-A

Matrix: Solid

Analysis Batch: 102913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/17/25 08:45	02/17/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/17/25 08:45	02/17/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/17/25 08:45	02/17/25 11:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/17/25 08:45	02/17/25 11:25	1

Lab Sample ID: LCS 880-102919/1-A

Matrix: Solid

Analysis Batch: 102913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1062		mg/Kg		106	70 - 130
Toluene	0.100	0.09394		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.1018		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2132		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1058		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-102919/2-A

Matrix: Solid

Analysis Batch: 102913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102919

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1067		mg/Kg		107	70 - 130	1	35
Toluene	0.100	0.09401		mg/Kg		94	70 - 130	0	35
Ethylbenzene	0.100	0.1022		mg/Kg		102	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2127		mg/Kg		106	70 - 130	0	35
o-Xylene	0.100	0.1060		mg/Kg		106	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-103021/5-A

Matrix: Solid

Analysis Batch: 103006

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/18/25 10:17	02/18/25 11:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/18/25 10:17	02/18/25 11:17	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-103021/5-A

Matrix: Solid

Analysis Batch: 103006

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/18/25 10:17	02/18/25 11:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/18/25 10:17	02/18/25 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/18/25 10:17	02/18/25 11:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/18/25 10:17	02/18/25 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/18/25 10:17	02/18/25 11:17	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/18/25 10:17	02/18/25 11:17	1

Lab Sample ID: LCS 880-103021/1-A

Matrix: Solid

Analysis Batch: 103006

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103021

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	0.1077		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1138		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2432		mg/Kg		122	70 - 130
o-Xylene	0.100	0.1179		mg/Kg		118	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-103021/2-A

Matrix: Solid

Analysis Batch: 103006

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103021

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1066		mg/Kg		107	70 - 130	5	35
Toluene	0.100	0.1009		mg/Kg		101	70 - 130	7	35
Ethylbenzene	0.100	0.1075		mg/Kg		107	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2260		mg/Kg		113	70 - 130	7	35
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-102990/1-A

Matrix: Solid

Analysis Batch: 102926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102990

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		02/17/25 16:28	02/17/25 17:30	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-102990/1-A

Matrix: Solid

Analysis Batch: 102926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102990

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/17/25 16:28	02/17/25 17:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/25 16:28	02/17/25 17:30	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	145	S1+	70 - 130				02/17/25 16:28	02/17/25 17:30	1
o-Terphenyl	133	S1+	70 - 130				02/17/25 16:28	02/17/25 17:30	1

Lab Sample ID: LCS 880-102990/2-A

Matrix: Solid

Analysis Batch: 102926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1226		mg/Kg		123	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1092		mg/Kg		109	70 - 130		
Surrogate	LCS	LCS	Limits						
1-Chlorooctane	99		70 - 130						
o-Terphenyl	88		70 - 130						

Lab Sample ID: LCSD 880-102990/3-A

Matrix: Solid

Analysis Batch: 102926

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102990

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1160		mg/Kg		116	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1159		mg/Kg		116	70 - 130	6	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	99		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102960/1-A

Matrix: Solid

Analysis Batch: 102978

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			02/17/25 23:23	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-102960/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 102978									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	249.3		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-102960/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 102978									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.5		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 102913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7677-1	SW-1	Total/NA	Solid	8021B	102919
890-7677-2	SW-2	Total/NA	Solid	8021B	102919
MB 880-102919/5-A	Method Blank	Total/NA	Solid	8021B	102919
LCS 880-102919/1-A	Lab Control Sample	Total/NA	Solid	8021B	102919
LCSD 880-102919/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102919

Prep Batch: 102919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7677-1	SW-1	Total/NA	Solid	5035	
890-7677-2	SW-2	Total/NA	Solid	5035	
MB 880-102919/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102919/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102919/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 102974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7677-1	SW-1	Total/NA	Solid	Total BTEX	
890-7677-2	SW-2	Total/NA	Solid	Total BTEX	
890-7677-3	SW-3	Total/NA	Solid	Total BTEX	

Analysis Batch: 103006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7677-3	SW-3	Total/NA	Solid	8021B	103021
MB 880-103021/5-A	Method Blank	Total/NA	Solid	8021B	103021
LCS 880-103021/1-A	Lab Control Sample	Total/NA	Solid	8021B	103021
LCSD 880-103021/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103021

Prep Batch: 103021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7677-3	SW-3	Total/NA	Solid	5035	
MB 880-103021/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103021/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103021/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 102926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7677-1	SW-1	Total/NA	Solid	8015B NM	102990
890-7677-2	SW-2	Total/NA	Solid	8015B NM	102990
890-7677-3	SW-3	Total/NA	Solid	8015B NM	102990
MB 880-102990/1-A	Method Blank	Total/NA	Solid	8015B NM	102990
LCS 880-102990/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102990
LCSD 880-102990/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102990

Prep Batch: 102990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7677-1	SW-1	Total/NA	Solid	8015NM Prep	
890-7677-2	SW-2	Total/NA	Solid	8015NM Prep	
890-7677-3	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-102990/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 102990 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-102990/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102990/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 103063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7677-1	SW-1	Total/NA	Solid	8015 NM	
890-7677-2	SW-2	Total/NA	Solid	8015 NM	
890-7677-3	SW-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7677-1	SW-1	Soluble	Solid	DI Leach	
890-7677-2	SW-2	Soluble	Solid	DI Leach	
890-7677-3	SW-3	Soluble	Solid	DI Leach	
MB 880-102960/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102960/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102960/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 102978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7677-1	SW-1	Soluble	Solid	300.0	102960
890-7677-2	SW-2	Soluble	Solid	300.0	102960
890-7677-3	SW-3	Soluble	Solid	300.0	102960
MB 880-102960/1-A	Method Blank	Soluble	Solid	300.0	102960
LCS 880-102960/2-A	Lab Control Sample	Soluble	Solid	300.0	102960
LCSD 880-102960/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102960

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

Client Sample ID: SW-1**Lab Sample ID: 890-7677-1****Date Collected: 02/13/25 12:45****Matrix: Solid****Date Received: 02/14/25 15:20**

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	102919	02/17/25 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102913	02/17/25 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102974	02/17/25 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103063	02/17/25 22:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102990	02/17/25 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102926	02/17/25 22:52	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102960	02/17/25 13:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102978	02/18/25 01:14	SMC	EET MID

Client Sample ID: SW-2**Lab Sample ID: 890-7677-2****Date Collected: 02/13/25 12:50****Matrix: Solid****Date Received: 02/14/25 15:20**

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	102919	02/17/25 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102913	02/17/25 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102974	02/17/25 14:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103063	02/17/25 23:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102990	02/17/25 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102926	02/17/25 23:07	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102960	02/17/25 13:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102978	02/18/25 01:23	SMC	EET MID

Client Sample ID: SW-3**Lab Sample ID: 890-7677-3****Date Collected: 02/13/25 12:55****Matrix: Solid****Date Received: 02/14/25 15:20**

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	103021	02/18/25 10:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103006	02/18/25 19:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102974	02/18/25 19:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103063	02/17/25 23:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102990	02/17/25 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102926	02/17/25 23:23	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102960	02/17/25 13:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102978	02/18/25 01:32	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
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

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Method Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
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: CTB -317 (SW Crude 6in)

Job ID: 890-7677-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7677-1	SW-1	Solid	02/13/25 12:45	02/14/25 15:20	0-1
890-7677-2	SW-2	Solid	02/13/25 12:50	02/14/25 15:20	0-1
890-7677-3	SW-3	Solid	02/13/25 12:55	02/14/25 15:20	0-1

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Houston, TX (281) 240-4200, Dallas, TX (214) 502-0300
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



890-7677 Chain of Custody

Work Order Comments									
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐									
State of Project:									
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐									
Deliverables: EDD ☐ ADAPT ☐ Other:									

Page 20 of 22

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7677-1

SDG Number: Lea County, NM

Login Number: 7677

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: 890-7677-1

SDG Number: Lea County, NM

Login Number: 7677

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/15/25 04:30 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	



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 4/21/2025 12:25:11 PM Revision 1

JOB DESCRIPTION

CTB - 317 (SW CRUDE 6 in)
Lea County, NM

JOB NUMBER

890-7926-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



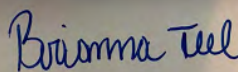
Eurofins Carlsbad

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



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

Generated
4/21/2025 12:25:11 PM
Revision 1

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Laboratory Job ID: 890-7926-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
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, low biased.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1

Job ID: 890-7926-1

Eurofins Carlsbad

Job Narrative 890-7926-1

REVISION

The report being provided is a revision of the original report sent on 4/16/2025. The report (revision 1) is being revised due to Revised to correct sample IDs.

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 4/10/2025 4:13 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 -6.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 1 (890-7926-1), CS - 2 (890-7926-2), CS - 3 (890-7926-3), CS - 4 (890-7926-4), CS - 5 (890-7926-5), CS - 6 (890-7926-6), CS - 7 (890-7926-7), CS - 8 (890-7926-8), CS - 9 (890-7926-9), CS - 10 (890-7926-10), CS - 11 (890-7926-11), CS - 12 (890-7926-12), CS - 13 (890-7926-13), CS - 14 (890-7926-14), CS - 15 (890-7926-15), CS - 16 (890-7926-16), CS - 17 (890-7926-17), CS - 18 (890-7926-18), CS - 19 (890-7926-19), CS - 20 (890-7926-20), CS - 21 (890-7926-21), CS - 22 (890-7926-22), CS - 23 (890-7926-23), CS - 28 (890-7926-24), CS - 29 (890-7926-25), CS - 30 (890-7926-26) and CS - 31 (890-7926-27).

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 sample was outside control limits: CS - 2 (890-7926-2). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-107581/2-A) and (LCSD 880-107581/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-107583/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-107583 and analytical batch 880-107708 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107438 and analytical batch 880-107465 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.

Eurofins Carlsbad

Case Narrative

Client: Earth Systems Response and Restoration
Project: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1

Job ID: 890-7926-1 (Continued)

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 1

Lab Sample ID: 890-7926-1

Date Collected: 04/09/25 10:00

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00260		0.00200		mg/Kg		04/11/25 09:47	04/11/25 14:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 14:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 14:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/11/25 09:47	04/11/25 14:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 14:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/11/25 09:47	04/11/25 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	04/11/25 09:47	04/11/25 14:18	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/11/25 09:47	04/11/25 14:18	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			04/11/25 14:18	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			04/12/25 07:31	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		04/11/25 12:26	04/12/25 07:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/11/25 12:26	04/12/25 07:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/11/25 12:26	04/12/25 07:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	04/11/25 12:26	04/12/25 07:31	1
o-Terphenyl	78		70 - 130	04/11/25 12:26	04/12/25 07:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	174		9.94		mg/Kg			04/11/25 17:27	1

Client Sample ID: CS - 2

Lab Sample ID: 890-7926-2

Date Collected: 04/09/25 10:05

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00240		0.00199		mg/Kg		04/11/25 09:47	04/11/25 14:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 14:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 14:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 14:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 14:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/11/25 09:47	04/11/25 14:39	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 2

Lab Sample ID: 890-7926-2

Date Collected: 04/09/25 10:05

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	04/11/25 09:47	04/11/25 14:39	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			04/11/25 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			04/12/25 07:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		04/11/25 12:26	04/12/25 07:48	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		04/11/25 12:26	04/12/25 07:48	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		04/11/25 12:26	04/12/25 07:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				04/11/25 12:26	04/12/25 07:48	1
o-Terphenyl	68	S1-	70 - 130				04/11/25 12:26	04/12/25 07:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		9.92		mg/Kg			04/11/25 17:48	1

Client Sample ID: CS - 3

Lab Sample ID: 890-7926-3

Date Collected: 04/10/25 11:00

Matrix: Solid

Date Received: 04/10/25 16:13

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		04/11/25 09:47	04/11/25 14:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 14:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 14:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 14:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 14:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/11/25 09:47	04/11/25 14:59	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/11/25 09:47	04/11/25 14:59	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			04/11/25 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			04/12/25 08:03	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 3

Lab Sample ID: 890-7926-3

Date Collected: 04/10/25 11:00

Matrix: Solid

Date Received: 04/10/25 16:13

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	<50.3	U	50.3		mg/Kg		04/11/25 12:26	04/12/25 08:03	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		04/11/25 12:26	04/12/25 08:03	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		04/11/25 12:26	04/12/25 08:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				04/11/25 12:26	04/12/25 08:03	1
o-Terphenyl	70		70 - 130				04/11/25 12:26	04/12/25 08:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	296		10.0		mg/Kg			04/11/25 17:55	1

Client Sample ID: CS - 4

Lab Sample ID: 890-7926-4

Date Collected: 04/09/25 10:15

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:47	04/11/25 15:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:47	04/11/25 15:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:47	04/11/25 15:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/11/25 09:47	04/11/25 15:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:47	04/11/25 15:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/11/25 09:47	04/11/25 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/11/25 09:47	04/11/25 15:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/11/25 09:47	04/11/25 15:20	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			04/11/25 15:20	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			04/12/25 08:19	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	<50.0	U	50.0		mg/Kg		04/11/25 12:26	04/12/25 08:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/11/25 12:26	04/12/25 08:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/11/25 12:26	04/12/25 08:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				04/11/25 12:26	04/12/25 08:19	1
o-Terphenyl	78		70 - 130				04/11/25 12:26	04/12/25 08:19	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 4

Lab Sample ID: 890-7926-4

Date Collected: 04/09/25 10:15

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		10.1		mg/Kg			04/11/25 18:03	1

Client Sample ID: CS - 5

Lab Sample ID: 890-7926-5

Date Collected: 04/09/25 10:20

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00213		0.00199		mg/Kg		04/11/25 09:47	04/11/25 15:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 15:40	1
Ethylbenzene	0.00266		0.00199		mg/Kg		04/11/25 09:47	04/11/25 15:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 15:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 15:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/11/25 09:47	04/11/25 15:40	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/11/25 09:47	04/11/25 15:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00479		0.00398		mg/Kg			04/11/25 15:40	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			04/12/25 08:35	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		04/11/25 12:26	04/12/25 08:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/11/25 12:26	04/12/25 08:35	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/11/25 12:26	04/12/25 08:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/11/25 12:26	04/12/25 08:35	1
o-Terphenyl	73		70 - 130				04/11/25 12:26	04/12/25 08:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191		10.1		mg/Kg			04/11/25 18:10	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 6

Lab Sample ID: 890-7926-6

Date Collected: 04/09/25 10:25

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:47	04/11/25 17:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 17:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 17:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/11/25 09:47	04/11/25 17:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 17:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/11/25 09:47	04/11/25 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	04/11/25 09:47	04/11/25 17:14	1
1,4-Difluorobenzene (Surr)	79		70 - 130	04/11/25 09:47	04/11/25 17:14	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			04/11/25 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/12/25 08:51	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		04/11/25 12:26	04/12/25 08:51	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/11/25 12:26	04/12/25 08:51	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/11/25 12:26	04/12/25 08:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	04/11/25 12:26	04/12/25 08:51	1
o-Terphenyl	71		70 - 130	04/11/25 12:26	04/12/25 08:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	351		9.98		mg/Kg			04/11/25 18:17	1

Client Sample ID: CS - 7

Lab Sample ID: 890-7926-7

Date Collected: 04/09/25 10:30

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:47	04/11/25 17:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 17:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 17:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/11/25 09:47	04/11/25 17:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 17:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/11/25 09:47	04/11/25 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/11/25 09:47	04/11/25 17:35	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 7

Lab Sample ID: 890-7926-7

Date Collected: 04/09/25 10:30

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	04/11/25 09:47	04/11/25 17:35	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			04/11/25 17:35	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			04/16/25 06:27	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		04/14/25 11:10	04/16/25 06:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/14/25 11:10	04/16/25 06:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/14/25 11:10	04/16/25 06:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				04/14/25 11:10	04/16/25 06:27	1
o-Terphenyl	82		70 - 130				04/14/25 11:10	04/16/25 06:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235	F1	9.92		mg/Kg			04/11/25 18:24	1

Client Sample ID: CS - 8

Lab Sample ID: 890-7926-8

Date Collected: 04/09/25 10:35

Matrix: Solid

Date Received: 04/10/25 16:13

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		04/11/25 09:47	04/11/25 17:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 17:56	1
Ethylbenzene	0.00247		0.00200		mg/Kg		04/11/25 09:47	04/11/25 17:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/11/25 09:47	04/11/25 17:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 17:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/11/25 09:47	04/11/25 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/11/25 09:47	04/11/25 17:56	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/11/25 09:47	04/11/25 17:56	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			04/11/25 17:56	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			04/16/25 06:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 8

Date Collected: 04/09/25 10:35

Date Received: 04/10/25 16:13

Sample Depth: 2

Lab Sample ID: 890-7926-8

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	<50.1	U	50.1		mg/Kg		04/14/25 11:10	04/16/25 06:43	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/14/25 11:10	04/16/25 06:43	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/14/25 11:10	04/16/25 06:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				04/14/25 11:10	04/16/25 06:43	1
o-Terphenyl	82		70 - 130				04/14/25 11:10	04/16/25 06:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		10.0		mg/Kg			04/11/25 18:46	1

Client Sample ID: CS - 9

Date Collected: 04/09/25 10:40

Date Received: 04/10/25 16:13

Sample Depth: 3

Lab Sample ID: 890-7926-9

Matrix: Solid

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		04/11/25 09:47	04/11/25 18:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/11/25 09:47	04/11/25 18:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/11/25 09:47	04/11/25 18:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/11/25 09:47	04/11/25 18:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/11/25 09:47	04/11/25 18:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/11/25 09:47	04/11/25 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/11/25 09:47	04/11/25 18:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/11/25 09:47	04/11/25 18:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/11/25 18:16	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			04/16/25 06:59	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	<49.9	U	49.9		mg/Kg		04/14/25 11:10	04/16/25 06:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/14/25 11:10	04/16/25 06:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/14/25 11:10	04/16/25 06:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				04/14/25 11:10	04/16/25 06:59	1
o-Terphenyl	85		70 - 130				04/14/25 11:10	04/16/25 06:59	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 9

Lab Sample ID: 890-7926-9

Date Collected: 04/09/25 10:40

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235		9.96		mg/Kg			04/11/25 18:53	1

Client Sample ID: CS - 10

Lab Sample ID: 890-7926-10

Date Collected: 04/09/25 10:45

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:47	04/11/25 18:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 18:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 18:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 18:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 18:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				04/11/25 09:47	04/11/25 18:37	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/11/25 09:47	04/11/25 18:37	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			04/11/25 18:37	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			04/16/25 07:16	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	<49.7	U	49.7		mg/Kg		04/14/25 11:10	04/16/25 07:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/14/25 11:10	04/16/25 07:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/14/25 11:10	04/16/25 07:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/14/25 11:10	04/16/25 07:16	1
o-Terphenyl	81		70 - 130				04/14/25 11:10	04/16/25 07:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		9.92		mg/Kg			04/11/25 19:15	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 11

Lab Sample ID: 890-7926-11

Date Collected: 04/09/25 10:50

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:45	04/11/25 12:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/11/25 09:45	04/11/25 12:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/11/25 09:45	04/11/25 12:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/11/25 09:45	04/11/25 12:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/11/25 09:45	04/11/25 12:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/11/25 09:45	04/11/25 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/11/25 09:45	04/11/25 12:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/11/25 09:45	04/11/25 12:36	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			04/11/25 12:36	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			04/16/25 07:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/14/25 11:10	04/16/25 07:32	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/14/25 11:10	04/16/25 07:32	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/14/25 11:10	04/16/25 07:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	04/14/25 11:10	04/16/25 07:32	1
o-Terphenyl	81		70 - 130	04/14/25 11:10	04/16/25 07:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		10.0		mg/Kg			04/11/25 19:22	1

Client Sample ID: CS - 12

Lab Sample ID: 890-7926-12

Date Collected: 04/09/25 10:55

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:45	04/11/25 12:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 12:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 12:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 12:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 12:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/11/25 09:45	04/11/25 12:56	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 12

Lab Sample ID: 890-7926-12

Date Collected: 04/09/25 10:55

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	04/11/25 09:45	04/11/25 12:56	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			04/11/25 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			04/16/25 07:49	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	<50.5	U	50.5		mg/Kg		04/14/25 11:10	04/16/25 07:49	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		04/14/25 11:10	04/16/25 07:49	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		04/14/25 11:10	04/16/25 07:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				04/14/25 11:10	04/16/25 07:49	1
o-Terphenyl	87		70 - 130				04/14/25 11:10	04/16/25 07:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		9.94		mg/Kg			04/11/25 19:29	1

Client Sample ID: CS - 13

Lab Sample ID: 890-7926-13

Date Collected: 04/09/25 11:00

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:45	04/11/25 13:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 13:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 13:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/11/25 09:45	04/11/25 13:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 13:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/11/25 09:45	04/11/25 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/11/25 09:45	04/11/25 13:17	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/11/25 09:45	04/11/25 13:17	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			04/11/25 13:17	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			04/16/25 08:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 13

Lab Sample ID: 890-7926-13

Date Collected: 04/09/25 11:00

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/14/25 11:10	04/16/25 08:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/14/25 11:10	04/16/25 08:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/14/25 11:10	04/16/25 08:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				04/14/25 11:10	04/16/25 08:22	1
o-Terphenyl	82		70 - 130				04/14/25 11:10	04/16/25 08:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177		9.90		mg/Kg			04/11/25 19:36	1

Client Sample ID: CS - 14

Lab Sample ID: 890-7926-14

Date Collected: 04/09/25 11:05

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:45	04/11/25 13:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 13:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 13:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 13:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 13:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/11/25 09:45	04/11/25 13:37	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/11/25 09:45	04/11/25 13:37	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			04/11/25 13:37	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			04/16/25 08:38	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	<49.9	U	49.9		mg/Kg		04/14/25 11:10	04/16/25 08:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/14/25 11:10	04/16/25 08:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/14/25 11:10	04/16/25 08:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				04/14/25 11:10	04/16/25 08:38	1
o-Terphenyl	80		70 - 130				04/14/25 11:10	04/16/25 08:38	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 14

Lab Sample ID: 890-7926-14

Date Collected: 04/09/25 11:05

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		10.1		mg/Kg			04/11/25 19:44	1

Client Sample ID: CS - 15

Lab Sample ID: 890-7926-15

Date Collected: 04/09/25 11:10

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:45	04/11/25 13:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:45	04/11/25 13:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:45	04/11/25 13:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/11/25 09:45	04/11/25 13:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:45	04/11/25 13:58	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/11/25 09:45	04/11/25 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/11/25 09:45	04/11/25 13:58	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/11/25 09:45	04/11/25 13:58	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			04/11/25 13:58	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			04/16/25 08:55	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		04/14/25 11:10	04/16/25 08:55	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/14/25 11:10	04/16/25 08:55	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/14/25 11:10	04/16/25 08:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/14/25 11:10	04/16/25 08:55	1
o-Terphenyl	80		70 - 130				04/14/25 11:10	04/16/25 08:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		9.94		mg/Kg			04/11/25 19:51	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 16

Lab Sample ID: 890-7926-16

Date Collected: 04/09/25 11:15

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:45	04/11/25 14:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 14:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 14:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/11/25 09:45	04/11/25 14:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 14:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/11/25 09:45	04/11/25 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/11/25 09:45	04/11/25 14:18	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/11/25 09:45	04/11/25 14:18	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			04/11/25 14:18	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			04/16/25 09:11	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		04/14/25 11:10	04/16/25 09:11	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/14/25 11:10	04/16/25 09:11	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/14/25 11:10	04/16/25 09:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	04/14/25 11:10	04/16/25 09:11	1
o-Terphenyl	86		70 - 130	04/14/25 11:10	04/16/25 09:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	278		9.92		mg/Kg			04/11/25 19:58	1

Client Sample ID: CS - 17

Lab Sample ID: 890-7926-17

Date Collected: 04/09/25 11:20

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 1.5

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		04/11/25 09:45	04/11/25 14:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 14:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 14:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 14:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 14:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/11/25 09:45	04/11/25 14:38	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 17

Lab Sample ID: 890-7926-17

Date Collected: 04/09/25 11:20

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	04/11/25 09:45	04/11/25 14:38	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			04/11/25 14:38	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			04/16/25 09:27	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		04/14/25 11:10	04/16/25 09:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/14/25 11:10	04/16/25 09:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/14/25 11:10	04/16/25 09:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				04/14/25 11:10	04/16/25 09:27	1
o-Terphenyl	103		70 - 130				04/14/25 11:10	04/16/25 09:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		10.1		mg/Kg			04/14/25 10:40	1

Client Sample ID: CS - 18

Lab Sample ID: 890-7926-18

Date Collected: 04/10/25 11:20

Matrix: Solid

Date Received: 04/10/25 16:13

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		04/11/25 09:45	04/11/25 14:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 14:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 14:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 14:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 14:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/11/25 09:45	04/11/25 14:59	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/11/25 09:45	04/11/25 14:59	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			04/11/25 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			04/16/25 09:44	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 18

Date Collected: 04/10/25 11:20

Date Received: 04/10/25 16:13

Sample Depth: 2

Lab Sample ID: 890-7926-18

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	<50.5	U	50.5		mg/Kg		04/14/25 11:10	04/16/25 09:44	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		04/14/25 11:10	04/16/25 09:44	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		04/14/25 11:10	04/16/25 09:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				04/14/25 11:10	04/16/25 09:44	1
o-Terphenyl	94		70 - 130				04/14/25 11:10	04/16/25 09:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		9.94		mg/Kg			04/14/25 10:47	1

Client Sample ID: CS - 19

Date Collected: 04/10/25 11:25

Date Received: 04/10/25 16:13

Sample Depth: 2

Lab Sample ID: 890-7926-19

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		04/11/25 09:45	04/11/25 15:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:45	04/11/25 15:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:45	04/11/25 15:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/11/25 09:45	04/11/25 15:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:45	04/11/25 15:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/11/25 09:45	04/11/25 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/11/25 09:45	04/11/25 15:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/11/25 09:45	04/11/25 15:20	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			04/11/25 15:20	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			04/16/25 10:01	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		04/14/25 11:10	04/16/25 10:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/14/25 11:10	04/16/25 10:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/14/25 11:10	04/16/25 10:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				04/14/25 11:10	04/16/25 10:01	1
o-Terphenyl	91		70 - 130				04/14/25 11:10	04/16/25 10:01	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 19

Lab Sample ID: 890-7926-19

Date Collected: 04/10/25 11:25

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		9.90		mg/Kg			04/14/25 10:55	1

Client Sample ID: CS - 20

Lab Sample ID: 890-7926-20

Date Collected: 04/10/25 11:30

Matrix: Solid

Date Received: 04/10/25 16:13

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		04/11/25 09:45	04/11/25 15:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 15:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 15:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 15:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 15:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/11/25 09:45	04/11/25 15:40	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/11/25 09:45	04/11/25 15:40	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			04/11/25 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			04/16/25 10:17	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	<49.6	U	49.6		mg/Kg		04/14/25 11:10	04/16/25 10:17	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/14/25 11:10	04/16/25 10:17	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/14/25 11:10	04/16/25 10:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/14/25 11:10	04/16/25 10:17	1
o-Terphenyl	87		70 - 130				04/14/25 11:10	04/16/25 10:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		10.0		mg/Kg			04/14/25 11:02	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 21

Lab Sample ID: 890-7926-21

Date Collected: 04/09/25 11:40

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:45	04/11/25 17:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 17:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 17:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/11/25 09:45	04/11/25 17:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 17:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/11/25 09:45	04/11/25 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/11/25 09:45	04/11/25 17:14	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/11/25 09:45	04/11/25 17:14	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			04/11/25 17:14	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			04/16/25 10:33	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		04/14/25 11:10	04/16/25 10:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/14/25 11:10	04/16/25 10:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/14/25 11:10	04/16/25 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	04/14/25 11:10	04/16/25 10:33	1
o-Terphenyl	88		70 - 130	04/14/25 11:10	04/16/25 10:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		10.1		mg/Kg			04/14/25 11:10	1

Client Sample ID: CS - 22

Lab Sample ID: 890-7926-22

Date Collected: 04/09/25 11:45

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:45	04/11/25 17:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 17:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 17:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/11/25 09:45	04/11/25 17:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 17:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/11/25 09:45	04/11/25 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/11/25 09:45	04/11/25 17:35	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 22

Lab Sample ID: 890-7926-22

Date Collected: 04/09/25 11:45

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	04/11/25 09:45	04/11/25 17:35	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			04/11/25 17:35	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			04/16/25 10:50	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		04/14/25 11:10	04/16/25 10:50	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/14/25 11:10	04/16/25 10:50	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/14/25 11:10	04/16/25 10:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/14/25 11:10	04/16/25 10:50	1
o-Terphenyl	88		70 - 130				04/14/25 11:10	04/16/25 10:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		9.94		mg/Kg			04/14/25 11:17	1

Client Sample ID: CS - 23

Lab Sample ID: 890-7926-23

Date Collected: 04/09/25 11:50

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:45	04/11/25 17:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 17:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 17:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/11/25 09:45	04/11/25 17:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 17:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/11/25 09:45	04/11/25 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/11/25 09:45	04/11/25 17:55	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/11/25 09:45	04/11/25 17:55	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			04/11/25 17:55	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			04/16/25 04:49	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 23

Lab Sample ID: 890-7926-23

Date Collected: 04/09/25 11:50

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/14/25 11:14	04/16/25 04:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/14/25 11:14	04/16/25 04:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/14/25 11:14	04/16/25 04:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				04/14/25 11:14	04/16/25 04:49	1
o-Terphenyl	109		70 - 130				04/14/25 11:14	04/16/25 04:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		9.96		mg/Kg			04/14/25 11:40	1

Client Sample ID: CS - 28

Lab Sample ID: 890-7926-24

Date Collected: 04/09/25 11:55

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:45	04/11/25 18:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/11/25 09:45	04/11/25 18:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/11/25 09:45	04/11/25 18:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/11/25 09:45	04/11/25 18:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/11/25 09:45	04/11/25 18:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/11/25 09:45	04/11/25 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/11/25 09:45	04/11/25 18:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/11/25 09:45	04/11/25 18:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/11/25 18:16	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			04/16/25 05:38	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	<49.8	U *	49.8		mg/Kg		04/14/25 11:14	04/16/25 05:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/14/25 11:14	04/16/25 05:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/14/25 11:14	04/16/25 05:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				04/14/25 11:14	04/16/25 05:38	1
o-Terphenyl	121		70 - 130				04/14/25 11:14	04/16/25 05:38	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 28

Lab Sample ID: 890-7926-24

Date Collected: 04/09/25 11:55

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		9.94		mg/Kg			04/14/25 11:55	1

Client Sample ID: CS - 29

Lab Sample ID: 890-7926-25

Date Collected: 04/10/25 11:05

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 3

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		04/11/25 09:45	04/11/25 18:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 18:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 18:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 18:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:45	04/11/25 18:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:45	04/11/25 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/11/25 09:45	04/11/25 18:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/11/25 09:45	04/11/25 18:36	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			04/11/25 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			04/16/25 05:55	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	<49.6	U *	49.6		mg/Kg		04/14/25 11:14	04/16/25 05:55	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/14/25 11:14	04/16/25 05:55	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/14/25 11:14	04/16/25 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				04/14/25 11:14	04/16/25 05:55	1
o-Terphenyl	128		70 - 130				04/14/25 11:14	04/16/25 05:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	287		9.94		mg/Kg			04/14/25 14:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 30

Lab Sample ID: 890-7926-26

Date Collected: 04/10/25 11:10

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 2

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		04/11/25 09:45	04/11/25 18:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/11/25 09:45	04/11/25 18:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/11/25 09:45	04/11/25 18:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/11/25 09:45	04/11/25 18:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/11/25 09:45	04/11/25 18:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/11/25 09:45	04/11/25 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/11/25 09:45	04/11/25 18:57	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/11/25 09:45	04/11/25 18:57	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			04/11/25 18:57	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			04/16/25 06:11	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		04/14/25 11:14	04/16/25 06:11	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/14/25 11:14	04/16/25 06:11	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/14/25 11:14	04/16/25 06:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	04/14/25 11:14	04/16/25 06:11	1
o-Terphenyl	128		70 - 130	04/14/25 11:14	04/16/25 06:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		10.0		mg/Kg			04/14/25 15:06	1

Client Sample ID: CS - 31

Lab Sample ID: 890-7926-27

Date Collected: 04/10/25 11:15

Matrix: Solid

Date Received: 04/10/25 16:13

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		04/11/25 09:45	04/11/25 19:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 19:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 19:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/11/25 09:45	04/11/25 19:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 19:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/11/25 09:45	04/11/25 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/11/25 09:45	04/11/25 19:17	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 31

Lab Sample ID: 890-7926-27

Date Collected: 04/10/25 11:15

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	04/11/25 09:45	04/11/25 19:17	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			04/11/25 19:17	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			04/16/25 06:27	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		04/14/25 11:14	04/16/25 06:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/14/25 11:14	04/16/25 06:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/14/25 11:14	04/16/25 06:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				04/14/25 11:14	04/16/25 06:27	1
o-Terphenyl	123		70 - 130				04/14/25 11:14	04/16/25 06:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393		9.92		mg/Kg			04/14/25 15:13	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
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	DFBZ1
		(70-130)	(70-130)
890-7926-1	CS - 1	115	97
890-7926-2	CS - 2	108	91
890-7926-3	CS - 3	109	93
890-7926-4	CS - 4	108	92
890-7926-5	CS - 5	104	98
890-7926-6	CS - 6	122	79
890-7926-7	CS - 7	98	99
890-7926-8	CS - 8	100	102
890-7926-9	CS - 9	108	96
890-7926-10	CS - 10	126	104
890-7926-11	CS - 11	103	101
890-7926-11 MS	CS - 11	97	97
890-7926-11 MSD	CS - 11	100	102
890-7926-12	CS - 12	105	101
890-7926-13	CS - 13	107	102
890-7926-14	CS - 14	105	99
890-7926-15	CS - 15	106	101
890-7926-16	CS - 16	105	99
890-7926-17	CS - 17	103	101
890-7926-18	CS - 18	109	98
890-7926-19	CS - 19	108	102
890-7926-20	CS - 20	100	102
890-7926-21	CS - 21	103	101
890-7926-22	CS - 22	105	100
890-7926-23	CS - 23	101	102
890-7926-24	CS - 28	103	101
890-7926-25	CS - 29	103	101
890-7926-26	CS - 30	103	100
890-7926-27	CS - 31	105	103
LCS 880-107440/1-A	Lab Control Sample	102	99
LCS 880-107441/1-A	Lab Control Sample	96	116
LCSD 880-107440/2-A	Lab Control Sample Dup	98	101
LCSD 880-107441/2-A	Lab Control Sample Dup	94	117
MB 880-107440/5-A	Method Blank	100	95
MB 880-107441/5-A	Method Blank	101	77

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	OTPH1
		(70-130)	(70-130)
890-7926-1	CS - 1	82	78
890-7926-2	CS - 2	74	68 S1-
890-7926-3	CS - 3	74	70
890-7926-4	CS - 4	81	78

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Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 890-7926-1

Project/Site: CTB - 317 (SW CRUDE 6 in)

SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7926-5	CS - 5	85	73
890-7926-6	CS - 6	78	71
890-7926-7	CS - 7	86	82
890-7926-8	CS - 8	87	82
890-7926-9	CS - 9	99	85
890-7926-10	CS - 10	88	81
890-7926-11	CS - 11	87	81
890-7926-12	CS - 12	99	87
890-7926-13	CS - 13	90	82
890-7926-14	CS - 14	90	80
890-7926-15	CS - 15	95	80
890-7926-16	CS - 16	93	86
890-7926-17	CS - 17	112	103
890-7926-18	CS - 18	99	94
890-7926-19	CS - 19	99	91
890-7926-20	CS - 20	94	87
890-7926-21	CS - 21	93	88
890-7926-22	CS - 22	93	88
890-7926-23	CS - 23	107	109
890-7926-23 MS	CS - 23	111	124
890-7926-23 MSD	CS - 23	113	106
890-7926-24	CS - 28	122	121
890-7926-25	CS - 29	126	128
890-7926-26	CS - 30	126	128
890-7926-27	CS - 31	125	123
LCS 880-107466/2-A	Lab Control Sample	110	122
LCS 880-107581/2-A	Lab Control Sample	142 S1+	153 S1+
LCS 880-107583/2-A	Lab Control Sample	124	140 S1+
LCSD 880-107466/3-A	Lab Control Sample Dup	115	128
LCSD 880-107581/3-A	Lab Control Sample Dup	146 S1+	156 S1+
LCSD 880-107583/3-A	Lab Control Sample Dup	103	116
MB 880-107466/1-A	Method Blank	102	105
MB 880-107581/1-A	Method Blank	86	87
MB 880-107583/1-A	Method Blank	91	95

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-107440/5-A

Matrix: Solid

Analysis Batch: 107426

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107440

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 12:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 12:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 12:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/11/25 09:45	04/11/25 12:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:45	04/11/25 12:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/11/25 09:45	04/11/25 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/11/25 09:45	04/11/25 12:14	1
1,4-Difluorobenzene (Surr)	95		70 - 130	04/11/25 09:45	04/11/25 12:14	1

Lab Sample ID: LCS 880-107440/1-A

Matrix: Solid

Analysis Batch: 107426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107440

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08917		mg/Kg		89	70 - 130
Toluene	0.100	0.08305		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08842		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1790		mg/Kg		89	70 - 130
o-Xylene	0.100	0.09100		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-107440/2-A

Matrix: Solid

Analysis Batch: 107426

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107440

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09239		mg/Kg		92	70 - 130	4	35
Toluene	0.100	0.08633		mg/Kg		86	70 - 130	4	35
Ethylbenzene	0.100	0.09089		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1837		mg/Kg		92	70 - 130	3	35
o-Xylene	0.100	0.09336		mg/Kg		93	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-7926-11 MS

Matrix: Solid

Analysis Batch: 107426

Client Sample ID: CS - 11

Prep Type: Total/NA

Prep Batch: 107440

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09375		mg/Kg		94	70 - 130
Toluene	<0.00201	U	0.100	0.08636		mg/Kg		86	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

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

Lab Sample ID: 890-7926-11 MS

Matrix: Solid

Analysis Batch: 107426

Client Sample ID: CS - 11

Prep Type: Total/NA

Prep Batch: 107440

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.08947		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1807		mg/Kg		90	70 - 130
o-Xylene	<0.00201	U	0.100	0.09015		mg/Kg		90	70 - 130

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

Lab Sample ID: 890-7926-11 MSD

Matrix: Solid

Analysis Batch: 107426

Client Sample ID: CS - 11

Prep Type: Total/NA

Prep Batch: 107440

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09731		mg/Kg		97	70 - 130	4	35
Toluene	<0.00201	U	0.100	0.08952		mg/Kg		90	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.100	0.09302		mg/Kg		93	70 - 130	4	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1892		mg/Kg		95	70 - 130	5	35
o-Xylene	<0.00201	U	0.100	0.09469		mg/Kg		95	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-107441/5-A

Matrix: Solid

Analysis Batch: 107425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 12:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 12:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 12:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/11/25 09:47	04/11/25 12:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 12:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/11/25 09:47	04/11/25 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/11/25 09:47	04/11/25 12:14	1
1,4-Difluorobenzene (Surr)	77		70 - 130	04/11/25 09:47	04/11/25 12:14	1

Lab Sample ID: LCS 880-107441/1-A

Matrix: Solid

Analysis Batch: 107425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1192		mg/Kg		119	70 - 130
Toluene	0.100	0.1095		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1167		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2204		mg/Kg		110	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-107441/1-A

Matrix: Solid

Analysis Batch: 107425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1048		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: LCSD 880-107441/2-A

Matrix: Solid

Analysis Batch: 107425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107441

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1239		mg/Kg		124	70 - 130	4	35
Toluene	0.100	0.1101		mg/Kg		110	70 - 130	1	35
Ethylbenzene	0.100	0.1131		mg/Kg		113	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2159		mg/Kg		108	70 - 130	2	35
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

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

Lab Sample ID: MB 880-107466/1-A

Matrix: Solid

Analysis Batch: 107472

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107466

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		04/11/25 12:25	04/12/25 02:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/11/25 12:25	04/12/25 02:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/11/25 12:25	04/12/25 02:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/11/25 12:25	04/12/25 02:25	1
o-Terphenyl	105		70 - 130	04/11/25 12:25	04/12/25 02:25	1

Lab Sample ID: LCS 880-107466/2-A

Matrix: Solid

Analysis Batch: 107472

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	869.8		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-107466/2-A

Matrix: Solid

Analysis Batch: 107472

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107466

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: LCSD 880-107466/3-A

Matrix: Solid

Analysis Batch: 107472

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107466

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	928.3		mg/Kg		93	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1052		mg/Kg		105	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: MB 880-107581/1-A

Matrix: Solid

Analysis Batch: 107706

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107581

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		04/14/25 11:09	04/16/25 04:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/14/25 11:09	04/16/25 04:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/14/25 11:09	04/16/25 04:01	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	86		70 - 130	04/14/25 11:09	04/16/25 04:01	1
o-Terphenyl	87		70 - 130	04/14/25 11:09	04/16/25 04:01	1

Lab Sample ID: LCS 880-107581/2-A

Matrix: Solid

Analysis Batch: 107706

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107581

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1115		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1284		mg/Kg		128	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	142	S1+	70 - 130
o-Terphenyl	153	S1+	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-107581/3-A

Matrix: Solid

Analysis Batch: 107706

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107581

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1183		mg/Kg		118	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1294		mg/Kg		129	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	146	S1+	70 - 130						
o-Terphenyl	156	S1+	70 - 130						

Lab Sample ID: MB 880-107583/1-A

Matrix: Solid

Analysis Batch: 107708

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107583

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		04/14/25 11:14	04/16/25 04:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/14/25 11:14	04/16/25 04:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/14/25 11:14	04/16/25 04:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/14/25 11:14	04/16/25 04:01	1
o-Terphenyl	95		70 - 130				04/14/25 11:14	04/16/25 04:01	1

Lab Sample ID: LCS 880-107583/2-A

Matrix: Solid

Analysis Batch: 107708

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	821.3		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1131		mg/Kg		113	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	124		70 - 130						
o-Terphenyl	140	S1+	70 - 130						

Lab Sample ID: LCSD 880-107583/3-A

Matrix: Solid

Analysis Batch: 107708

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107583

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	685.6	*-	mg/Kg		69	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	945.3		mg/Kg		95	70 - 130	18	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-107583/3-A

Matrix: Solid

Analysis Batch: 107708

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107583

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: 890-7926-23 MS

Matrix: Solid

Analysis Batch: 107708

Client Sample ID: CS - 23

Prep Type: Total/NA

Prep Batch: 107583

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	1010	858.0		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1010	990.0		mg/Kg		98	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	124		70 - 130						

Lab Sample ID: 890-7926-23 MSD

Matrix: Solid

Analysis Batch: 107708

Client Sample ID: CS - 23

Prep Type: Total/NA

Prep Batch: 107583

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	<49.9	U *-	1010	763.1		mg/Kg		76	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1010	813.0		mg/Kg		81	70 - 130	20	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107438/1-A

Matrix: Solid

Analysis Batch: 107465

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			04/11/25 16:22	1

Lab Sample ID: LCS 880-107438/2-A

Matrix: Solid

Analysis Batch: 107465

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.4		mg/Kg		94	90 - 110

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-107438/3-A

Matrix: Solid

Analysis Batch: 107465

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	236.6		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 890-7926-7 MS

Matrix: Solid

Analysis Batch: 107465

Client Sample ID: CS - 7

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	235	F1	248	535.2	F1	mg/Kg		121	90 - 110		

Lab Sample ID: 890-7926-7 MSD

Matrix: Solid

Analysis Batch: 107465

Client Sample ID: CS - 7

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	235	F1	248	533.7	F1	mg/Kg		120	90 - 110	0	20

Lab Sample ID: MB 880-107505/1-A

Matrix: Solid

Analysis Batch: 107519

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			04/14/25 09:10	1

Lab Sample ID: LCS 880-107505/2-A

Matrix: Solid

Analysis Batch: 107519

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.3		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-107505/3-A

Matrix: Solid

Analysis Batch: 107519

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	244.8		mg/Kg		98	90 - 110	3	20

Lab Sample ID: 890-7926-22 MS

Matrix: Solid

Analysis Batch: 107519

Client Sample ID: CS - 22

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	168		249	411.2		mg/Kg		98	90 - 110		

Lab Sample ID: 890-7926-22 MSD

Matrix: Solid

Analysis Batch: 107519

Client Sample ID: CS - 22

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	168		249	409.6		mg/Kg		97	90 - 110	0	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 107425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-1	CS - 1	Total/NA	Solid	8021B	107441
890-7926-2	CS - 2	Total/NA	Solid	8021B	107441
890-7926-3	CS - 3	Total/NA	Solid	8021B	107441
890-7926-4	CS - 4	Total/NA	Solid	8021B	107441
890-7926-5	CS - 5	Total/NA	Solid	8021B	107441
890-7926-6	CS - 6	Total/NA	Solid	8021B	107441
890-7926-7	CS - 7	Total/NA	Solid	8021B	107441
890-7926-8	CS - 8	Total/NA	Solid	8021B	107441
890-7926-9	CS - 9	Total/NA	Solid	8021B	107441
890-7926-10	CS - 10	Total/NA	Solid	8021B	107441
MB 880-107441/5-A	Method Blank	Total/NA	Solid	8021B	107441
LCS 880-107441/1-A	Lab Control Sample	Total/NA	Solid	8021B	107441
LCSD 880-107441/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107441

Analysis Batch: 107426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-11	CS - 11	Total/NA	Solid	8021B	107440
890-7926-12	CS - 12	Total/NA	Solid	8021B	107440
890-7926-13	CS - 13	Total/NA	Solid	8021B	107440
890-7926-14	CS - 14	Total/NA	Solid	8021B	107440
890-7926-15	CS - 15	Total/NA	Solid	8021B	107440
890-7926-16	CS - 16	Total/NA	Solid	8021B	107440
890-7926-17	CS - 17	Total/NA	Solid	8021B	107440
890-7926-18	CS - 18	Total/NA	Solid	8021B	107440
890-7926-19	CS - 19	Total/NA	Solid	8021B	107440
890-7926-20	CS - 20	Total/NA	Solid	8021B	107440
890-7926-21	CS - 21	Total/NA	Solid	8021B	107440
890-7926-22	CS - 22	Total/NA	Solid	8021B	107440
890-7926-23	CS - 23	Total/NA	Solid	8021B	107440
890-7926-24	CS - 28	Total/NA	Solid	8021B	107440
890-7926-25	CS - 29	Total/NA	Solid	8021B	107440
890-7926-26	CS - 30	Total/NA	Solid	8021B	107440
890-7926-27	CS - 31	Total/NA	Solid	8021B	107440
MB 880-107440/5-A	Method Blank	Total/NA	Solid	8021B	107440
LCS 880-107440/1-A	Lab Control Sample	Total/NA	Solid	8021B	107440
LCSD 880-107440/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107440
890-7926-11 MS	CS - 11	Total/NA	Solid	8021B	107440
890-7926-11 MSD	CS - 11	Total/NA	Solid	8021B	107440

Prep Batch: 107440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-11	CS - 11	Total/NA	Solid	5035	
890-7926-12	CS - 12	Total/NA	Solid	5035	
890-7926-13	CS - 13	Total/NA	Solid	5035	
890-7926-14	CS - 14	Total/NA	Solid	5035	
890-7926-15	CS - 15	Total/NA	Solid	5035	
890-7926-16	CS - 16	Total/NA	Solid	5035	
890-7926-17	CS - 17	Total/NA	Solid	5035	
890-7926-18	CS - 18	Total/NA	Solid	5035	
890-7926-19	CS - 19	Total/NA	Solid	5035	
890-7926-20	CS - 20	Total/NA	Solid	5035	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 107440 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-21	CS - 21	Total/NA	Solid	5035	
890-7926-22	CS - 22	Total/NA	Solid	5035	
890-7926-23	CS - 23	Total/NA	Solid	5035	
890-7926-24	CS - 28	Total/NA	Solid	5035	
890-7926-25	CS - 29	Total/NA	Solid	5035	
890-7926-26	CS - 30	Total/NA	Solid	5035	
890-7926-27	CS - 31	Total/NA	Solid	5035	
MB 880-107440/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107440/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107440/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7926-11 MS	CS - 11	Total/NA	Solid	5035	
890-7926-11 MSD	CS - 11	Total/NA	Solid	5035	

Prep Batch: 107441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-1	CS - 1	Total/NA	Solid	5035	
890-7926-2	CS - 2	Total/NA	Solid	5035	
890-7926-3	CS - 3	Total/NA	Solid	5035	
890-7926-4	CS - 4	Total/NA	Solid	5035	
890-7926-5	CS - 5	Total/NA	Solid	5035	
890-7926-6	CS - 6	Total/NA	Solid	5035	
890-7926-7	CS - 7	Total/NA	Solid	5035	
890-7926-8	CS - 8	Total/NA	Solid	5035	
890-7926-9	CS - 9	Total/NA	Solid	5035	
890-7926-10	CS - 10	Total/NA	Solid	5035	
MB 880-107441/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107441/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107441/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 107500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-1	CS - 1	Total/NA	Solid	Total BTEX	
890-7926-2	CS - 2	Total/NA	Solid	Total BTEX	
890-7926-3	CS - 3	Total/NA	Solid	Total BTEX	
890-7926-4	CS - 4	Total/NA	Solid	Total BTEX	
890-7926-5	CS - 5	Total/NA	Solid	Total BTEX	
890-7926-6	CS - 6	Total/NA	Solid	Total BTEX	
890-7926-7	CS - 7	Total/NA	Solid	Total BTEX	
890-7926-8	CS - 8	Total/NA	Solid	Total BTEX	
890-7926-9	CS - 9	Total/NA	Solid	Total BTEX	
890-7926-10	CS - 10	Total/NA	Solid	Total BTEX	
890-7926-11	CS - 11	Total/NA	Solid	Total BTEX	
890-7926-12	CS - 12	Total/NA	Solid	Total BTEX	
890-7926-13	CS - 13	Total/NA	Solid	Total BTEX	
890-7926-14	CS - 14	Total/NA	Solid	Total BTEX	
890-7926-15	CS - 15	Total/NA	Solid	Total BTEX	
890-7926-16	CS - 16	Total/NA	Solid	Total BTEX	
890-7926-17	CS - 17	Total/NA	Solid	Total BTEX	
890-7926-18	CS - 18	Total/NA	Solid	Total BTEX	
890-7926-19	CS - 19	Total/NA	Solid	Total BTEX	
890-7926-20	CS - 20	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 107500 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-21	CS - 21	Total/NA	Solid	Total BTEX	
890-7926-22	CS - 22	Total/NA	Solid	Total BTEX	
890-7926-23	CS - 23	Total/NA	Solid	Total BTEX	
890-7926-24	CS - 28	Total/NA	Solid	Total BTEX	
890-7926-25	CS - 29	Total/NA	Solid	Total BTEX	
890-7926-26	CS - 30	Total/NA	Solid	Total BTEX	
890-7926-27	CS - 31	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 107466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-1	CS - 1	Total/NA	Solid	8015NM Prep	
890-7926-2	CS - 2	Total/NA	Solid	8015NM Prep	
890-7926-3	CS - 3	Total/NA	Solid	8015NM Prep	
890-7926-4	CS - 4	Total/NA	Solid	8015NM Prep	
890-7926-5	CS - 5	Total/NA	Solid	8015NM Prep	
890-7926-6	CS - 6	Total/NA	Solid	8015NM Prep	
MB 880-107466/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107466/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-1	CS - 1	Total/NA	Solid	8015B NM	107466
890-7926-2	CS - 2	Total/NA	Solid	8015B NM	107466
890-7926-3	CS - 3	Total/NA	Solid	8015B NM	107466
890-7926-4	CS - 4	Total/NA	Solid	8015B NM	107466
890-7926-5	CS - 5	Total/NA	Solid	8015B NM	107466
890-7926-6	CS - 6	Total/NA	Solid	8015B NM	107466
MB 880-107466/1-A	Method Blank	Total/NA	Solid	8015B NM	107466
LCS 880-107466/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107466
LCSD 880-107466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107466

Prep Batch: 107581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-7	CS - 7	Total/NA	Solid	8015NM Prep	
890-7926-8	CS - 8	Total/NA	Solid	8015NM Prep	
890-7926-9	CS - 9	Total/NA	Solid	8015NM Prep	
890-7926-10	CS - 10	Total/NA	Solid	8015NM Prep	
890-7926-11	CS - 11	Total/NA	Solid	8015NM Prep	
890-7926-12	CS - 12	Total/NA	Solid	8015NM Prep	
890-7926-13	CS - 13	Total/NA	Solid	8015NM Prep	
890-7926-14	CS - 14	Total/NA	Solid	8015NM Prep	
890-7926-15	CS - 15	Total/NA	Solid	8015NM Prep	
890-7926-16	CS - 16	Total/NA	Solid	8015NM Prep	
890-7926-17	CS - 17	Total/NA	Solid	8015NM Prep	
890-7926-18	CS - 18	Total/NA	Solid	8015NM Prep	
890-7926-19	CS - 19	Total/NA	Solid	8015NM Prep	
890-7926-20	CS - 20	Total/NA	Solid	8015NM Prep	
890-7926-21	CS - 21	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 107581 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-22	CS - 22	Total/NA	Solid	8015NM Prep	
MB 880-107581/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107581/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107581/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 107583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-23	CS - 23	Total/NA	Solid	8015NM Prep	
890-7926-24	CS - 28	Total/NA	Solid	8015NM Prep	
890-7926-25	CS - 29	Total/NA	Solid	8015NM Prep	
890-7926-26	CS - 30	Total/NA	Solid	8015NM Prep	
890-7926-27	CS - 31	Total/NA	Solid	8015NM Prep	
MB 880-107583/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107583/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107583/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7926-23 MS	CS - 23	Total/NA	Solid	8015NM Prep	
890-7926-23 MSD	CS - 23	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-1	CS - 1	Total/NA	Solid	8015 NM	
890-7926-2	CS - 2	Total/NA	Solid	8015 NM	
890-7926-3	CS - 3	Total/NA	Solid	8015 NM	
890-7926-4	CS - 4	Total/NA	Solid	8015 NM	
890-7926-5	CS - 5	Total/NA	Solid	8015 NM	
890-7926-6	CS - 6	Total/NA	Solid	8015 NM	
890-7926-7	CS - 7	Total/NA	Solid	8015 NM	
890-7926-8	CS - 8	Total/NA	Solid	8015 NM	
890-7926-9	CS - 9	Total/NA	Solid	8015 NM	
890-7926-10	CS - 10	Total/NA	Solid	8015 NM	
890-7926-11	CS - 11	Total/NA	Solid	8015 NM	
890-7926-12	CS - 12	Total/NA	Solid	8015 NM	
890-7926-13	CS - 13	Total/NA	Solid	8015 NM	
890-7926-14	CS - 14	Total/NA	Solid	8015 NM	
890-7926-15	CS - 15	Total/NA	Solid	8015 NM	
890-7926-16	CS - 16	Total/NA	Solid	8015 NM	
890-7926-17	CS - 17	Total/NA	Solid	8015 NM	
890-7926-18	CS - 18	Total/NA	Solid	8015 NM	
890-7926-19	CS - 19	Total/NA	Solid	8015 NM	
890-7926-20	CS - 20	Total/NA	Solid	8015 NM	
890-7926-21	CS - 21	Total/NA	Solid	8015 NM	
890-7926-22	CS - 22	Total/NA	Solid	8015 NM	
890-7926-23	CS - 23	Total/NA	Solid	8015 NM	
890-7926-24	CS - 28	Total/NA	Solid	8015 NM	
890-7926-25	CS - 29	Total/NA	Solid	8015 NM	
890-7926-26	CS - 30	Total/NA	Solid	8015 NM	
890-7926-27	CS - 31	Total/NA	Solid	8015 NM	

Analysis Batch: 107706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-7	CS - 7	Total/NA	Solid	8015B NM	107581

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 107706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-8	CS - 8	Total/NA	Solid	8015B NM	107581
890-7926-9	CS - 9	Total/NA	Solid	8015B NM	107581
890-7926-10	CS - 10	Total/NA	Solid	8015B NM	107581
890-7926-11	CS - 11	Total/NA	Solid	8015B NM	107581
890-7926-12	CS - 12	Total/NA	Solid	8015B NM	107581
890-7926-13	CS - 13	Total/NA	Solid	8015B NM	107581
890-7926-14	CS - 14	Total/NA	Solid	8015B NM	107581
890-7926-15	CS - 15	Total/NA	Solid	8015B NM	107581
890-7926-16	CS - 16	Total/NA	Solid	8015B NM	107581
890-7926-17	CS - 17	Total/NA	Solid	8015B NM	107581
890-7926-18	CS - 18	Total/NA	Solid	8015B NM	107581
890-7926-19	CS - 19	Total/NA	Solid	8015B NM	107581
890-7926-20	CS - 20	Total/NA	Solid	8015B NM	107581
890-7926-21	CS - 21	Total/NA	Solid	8015B NM	107581
890-7926-22	CS - 22	Total/NA	Solid	8015B NM	107581
MB 880-107581/1-A	Method Blank	Total/NA	Solid	8015B NM	107581
LCS 880-107581/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107581
LCSD 880-107581/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107581

Analysis Batch: 107708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-23	CS - 23	Total/NA	Solid	8015B NM	107583
890-7926-24	CS - 28	Total/NA	Solid	8015B NM	107583
890-7926-25	CS - 29	Total/NA	Solid	8015B NM	107583
890-7926-26	CS - 30	Total/NA	Solid	8015B NM	107583
890-7926-27	CS - 31	Total/NA	Solid	8015B NM	107583
MB 880-107583/1-A	Method Blank	Total/NA	Solid	8015B NM	107583
LCS 880-107583/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107583
LCSD 880-107583/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107583
890-7926-23 MS	CS - 23	Total/NA	Solid	8015B NM	107583
890-7926-23 MSD	CS - 23	Total/NA	Solid	8015B NM	107583

HPLC/IC

Leach Batch: 107438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-1	CS - 1	Soluble	Solid	DI Leach	
890-7926-2	CS - 2	Soluble	Solid	DI Leach	
890-7926-3	CS - 3	Soluble	Solid	DI Leach	
890-7926-4	CS - 4	Soluble	Solid	DI Leach	
890-7926-5	CS - 5	Soluble	Solid	DI Leach	
890-7926-6	CS - 6	Soluble	Solid	DI Leach	
890-7926-7	CS - 7	Soluble	Solid	DI Leach	
890-7926-8	CS - 8	Soluble	Solid	DI Leach	
890-7926-9	CS - 9	Soluble	Solid	DI Leach	
890-7926-10	CS - 10	Soluble	Solid	DI Leach	
890-7926-11	CS - 11	Soluble	Solid	DI Leach	
890-7926-12	CS - 12	Soluble	Solid	DI Leach	
890-7926-13	CS - 13	Soluble	Solid	DI Leach	
890-7926-14	CS - 14	Soluble	Solid	DI Leach	
890-7926-15	CS - 15	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 107438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-16	CS - 16	Soluble	Solid	DI Leach	
MB 880-107438/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107438/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107438/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7926-7 MS	CS - 7	Soluble	Solid	DI Leach	
890-7926-7 MSD	CS - 7	Soluble	Solid	DI Leach	

Analysis Batch: 107465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-1	CS - 1	Soluble	Solid	300.0	107438
890-7926-2	CS - 2	Soluble	Solid	300.0	107438
890-7926-3	CS - 3	Soluble	Solid	300.0	107438
890-7926-4	CS - 4	Soluble	Solid	300.0	107438
890-7926-5	CS - 5	Soluble	Solid	300.0	107438
890-7926-6	CS - 6	Soluble	Solid	300.0	107438
890-7926-7	CS - 7	Soluble	Solid	300.0	107438
890-7926-8	CS - 8	Soluble	Solid	300.0	107438
890-7926-9	CS - 9	Soluble	Solid	300.0	107438
890-7926-10	CS - 10	Soluble	Solid	300.0	107438
890-7926-11	CS - 11	Soluble	Solid	300.0	107438
890-7926-12	CS - 12	Soluble	Solid	300.0	107438
890-7926-13	CS - 13	Soluble	Solid	300.0	107438
890-7926-14	CS - 14	Soluble	Solid	300.0	107438
890-7926-15	CS - 15	Soluble	Solid	300.0	107438
890-7926-16	CS - 16	Soluble	Solid	300.0	107438
MB 880-107438/1-A	Method Blank	Soluble	Solid	300.0	107438
LCS 880-107438/2-A	Lab Control Sample	Soluble	Solid	300.0	107438
LCSD 880-107438/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107438
890-7926-7 MS	CS - 7	Soluble	Solid	300.0	107438
890-7926-7 MSD	CS - 7	Soluble	Solid	300.0	107438

Leach Batch: 107505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-17	CS - 17	Soluble	Solid	DI Leach	
890-7926-18	CS - 18	Soluble	Solid	DI Leach	
890-7926-19	CS - 19	Soluble	Solid	DI Leach	
890-7926-20	CS - 20	Soluble	Solid	DI Leach	
890-7926-21	CS - 21	Soluble	Solid	DI Leach	
890-7926-22	CS - 22	Soluble	Solid	DI Leach	
890-7926-23	CS - 23	Soluble	Solid	DI Leach	
890-7926-24	CS - 28	Soluble	Solid	DI Leach	
890-7926-25	CS - 29	Soluble	Solid	DI Leach	
890-7926-26	CS - 30	Soluble	Solid	DI Leach	
890-7926-27	CS - 31	Soluble	Solid	DI Leach	
MB 880-107505/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107505/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107505/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7926-22 MS	CS - 22	Soluble	Solid	DI Leach	
890-7926-22 MSD	CS - 22	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

HPLC/IC**Analysis Batch: 107519**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7926-17	CS - 17	Soluble	Solid	300.0	107505
890-7926-18	CS - 18	Soluble	Solid	300.0	107505
890-7926-19	CS - 19	Soluble	Solid	300.0	107505
890-7926-20	CS - 20	Soluble	Solid	300.0	107505
890-7926-21	CS - 21	Soluble	Solid	300.0	107505
890-7926-22	CS - 22	Soluble	Solid	300.0	107505
890-7926-23	CS - 23	Soluble	Solid	300.0	107505
890-7926-24	CS - 28	Soluble	Solid	300.0	107505
890-7926-25	CS - 29	Soluble	Solid	300.0	107505
890-7926-26	CS - 30	Soluble	Solid	300.0	107505
890-7926-27	CS - 31	Soluble	Solid	300.0	107505
MB 880-107505/1-A	Method Blank	Soluble	Solid	300.0	107505
LCS 880-107505/2-A	Lab Control Sample	Soluble	Solid	300.0	107505
LCSD 880-107505/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107505
890-7926-22 MS	CS - 22	Soluble	Solid	300.0	107505
890-7926-22 MSD	CS - 22	Soluble	Solid	300.0	107505

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 1**Lab Sample ID: 890-7926-1****Date Collected: 04/09/25 10:00****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 14:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 14:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/12/25 07:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	107466	04/11/25 12:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107472	04/12/25 07:31	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 17:27	CH	EET MID

Client Sample ID: CS - 2**Lab Sample ID: 890-7926-2****Date Collected: 04/09/25 10:05****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 14:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/12/25 07:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	107466	04/11/25 12:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107472	04/12/25 07:48	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 17:48	CH	EET MID

Client Sample ID: CS - 3**Lab Sample ID: 890-7926-3****Date Collected: 04/10/25 11:00****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 14:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 14:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/12/25 08:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	107466	04/11/25 12:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107472	04/12/25 08:03	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 17:55	CH	EET MID

Client Sample ID: CS - 4**Lab Sample ID: 890-7926-4****Date Collected: 04/09/25 10:15****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 15:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 15:20	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 4**Lab Sample ID: 890-7926-4****Date Collected: 04/09/25 10:15****Matrix: Solid****Date Received: 04/10/25 16:13**

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			107602	04/12/25 08:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	107466	04/11/25 12:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107472	04/12/25 08:19	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 18:03	CH	EET MID

Client Sample ID: CS - 5**Lab Sample ID: 890-7926-5****Date Collected: 04/09/25 10:20****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 15:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 15:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/12/25 08:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	107466	04/11/25 12:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107472	04/12/25 08:35	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 18:10	CH	EET MID

Client Sample ID: CS - 6**Lab Sample ID: 890-7926-6****Date Collected: 04/09/25 10:25****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 17:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 17:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/12/25 08:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	107466	04/11/25 12:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107472	04/12/25 08:51	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 18:17	CH	EET MID

Client Sample ID: CS - 7**Lab Sample ID: 890-7926-7****Date Collected: 04/09/25 10:30****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 17:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 06:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 06:27	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 7**Date Collected: 04/09/25 10:30****Date Received: 04/10/25 16:13****Lab Sample ID: 890-7926-7****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			5.04 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 18:24	CH	EET MID

Client Sample ID: CS - 8**Date Collected: 04/09/25 10:35****Date Received: 04/10/25 16:13****Lab Sample ID: 890-7926-8****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			4.99 g	5 mL	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 17:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 17:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 06:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 06:43	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 18:46	CH	EET MID

Client Sample ID: CS - 9**Date Collected: 04/09/25 10:40****Date Received: 04/10/25 16:13****Lab Sample ID: 890-7926-9****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 18:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 18:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 06:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 06:59	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 18:53	CH	EET MID

Client Sample ID: CS - 10**Date Collected: 04/09/25 10:45****Date Received: 04/10/25 16:13****Lab Sample ID: 890-7926-10****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			5.02 g	5 mL	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 18:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 18:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 07:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 07:16	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 19:15	CH	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 11**Lab Sample ID: 890-7926-11****Date Collected: 04/09/25 10:50****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 12:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 07:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 07:32	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 19:22	CH	EET MID

Client Sample ID: CS - 12**Lab Sample ID: 890-7926-12****Date Collected: 04/09/25 10:55****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 12:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 07:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 07:49	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 19:29	CH	EET MID

Client Sample ID: CS - 13**Lab Sample ID: 890-7926-13****Date Collected: 04/09/25 11:00****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 13:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 08:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 08:22	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 19:36	CH	EET MID

Client Sample ID: CS - 14**Lab Sample ID: 890-7926-14****Date Collected: 04/09/25 11:05****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 13:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 13:37	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 14**Lab Sample ID: 890-7926-14****Date Collected: 04/09/25 11:05****Matrix: Solid****Date Received: 04/10/25 16:13**

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			107602	04/16/25 08:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 08:38	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 19:44	CH	EET MID

Client Sample ID: CS - 15**Lab Sample ID: 890-7926-15****Date Collected: 04/09/25 11:10****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 13:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 08:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 08:55	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 19:51	CH	EET MID

Client Sample ID: CS - 16**Lab Sample ID: 890-7926-16****Date Collected: 04/09/25 11:15****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 14:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 14:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 09:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 09:11	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 19:58	CH	EET MID

Client Sample ID: CS - 17**Lab Sample ID: 890-7926-17****Date Collected: 04/09/25 11:20****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 14:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 09:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 09:27	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 17**Lab Sample ID: 890-7926-17****Date Collected: 04/09/25 11:20****Matrix: Solid****Date Received: 04/10/25 16:13**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	107505	04/11/25 16:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107519	04/14/25 10:40	CH	EET MID

Client Sample ID: CS - 18**Lab Sample ID: 890-7926-18****Date Collected: 04/10/25 11:20****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 14:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 14:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 09:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 09:44	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107505	04/11/25 16:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107519	04/14/25 10:47	CH	EET MID

Client Sample ID: CS - 19**Lab Sample ID: 890-7926-19****Date Collected: 04/10/25 11:25****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 15:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 15:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 10:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 10:01	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	107505	04/11/25 16:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107519	04/14/25 10:55	CH	EET MID

Client Sample ID: CS - 20**Lab Sample ID: 890-7926-20****Date Collected: 04/10/25 11:30****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 15:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 15:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 10:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 10:17	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	107505	04/11/25 16:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107519	04/14/25 11:02	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 21**Lab Sample ID: 890-7926-21****Date Collected: 04/09/25 11:40****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 17:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 17:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 10:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 10:33	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	107505	04/11/25 16:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107519	04/14/25 11:10	CH	EET MID

Client Sample ID: CS - 22**Lab Sample ID: 890-7926-22****Date Collected: 04/09/25 11:45****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 17:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 10:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 10:50	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107505	04/11/25 16:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107519	04/14/25 11:17	CH	EET MID

Client Sample ID: CS - 23**Lab Sample ID: 890-7926-23****Date Collected: 04/09/25 11:50****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 17:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 04:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	107583	04/14/25 11:14	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107708	04/16/25 04:49	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	107505	04/11/25 16:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107519	04/14/25 11:40	CH	EET MID

Client Sample ID: CS - 28**Lab Sample ID: 890-7926-24****Date Collected: 04/09/25 11:55****Matrix: Solid****Date Received: 04/10/25 16:13**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 18:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 18:16	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 28**Lab Sample ID: 890-7926-24****Date Collected: 04/09/25 11:55****Matrix: Solid****Date Received: 04/10/25 16:13**

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			107602	04/16/25 05:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	107583	04/14/25 11:14	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107708	04/16/25 05:38	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107505	04/11/25 16:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107519	04/14/25 11:55	CH	EET MID

Client Sample ID: CS - 29**Lab Sample ID: 890-7926-25****Date Collected: 04/10/25 11:05****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 18:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 05:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	107583	04/14/25 11:14	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107708	04/16/25 05:55	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107505	04/11/25 16:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107519	04/14/25 14:58	CH	EET MID

Client Sample ID: CS - 30**Lab Sample ID: 890-7926-26****Date Collected: 04/10/25 11:10****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 18:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 18:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 06:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	107583	04/14/25 11:14	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107708	04/16/25 06:11	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	107505	04/11/25 16:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107519	04/14/25 15:06	CH	EET MID

Client Sample ID: CS - 31**Lab Sample ID: 890-7926-27****Date Collected: 04/10/25 11:15****Matrix: Solid****Date Received: 04/10/25 16:13**

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	107440	04/11/25 09:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107426	04/11/25 19:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107500	04/11/25 19:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107602	04/16/25 06:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	107583	04/14/25 11:14	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107708	04/16/25 06:27	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Client Sample ID: CS - 31
Date Collected: 04/10/25 11:15
Date Received: 04/10/25 16:13

Lab Sample ID: 890-7926-27
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			5.04 g	50 mL	107505	04/11/25 16:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107519	04/14/25 15:13	CH	EET MID

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

- 1
- 2
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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
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: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
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

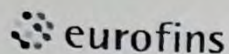
Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB - 317 (SW CRUDE 6 in)

Job ID: 890-7926-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7926-1	CS - 1	Solid	04/09/25 10:00	04/10/25 16:13	3
890-7926-2	CS - 2	Solid	04/09/25 10:05	04/10/25 16:13	3
890-7926-3	CS - 3	Solid	04/10/25 11:00	04/10/25 16:13	2
890-7926-4	CS - 4	Solid	04/09/25 10:15	04/10/25 16:13	3
890-7926-5	CS - 5	Solid	04/09/25 10:20	04/10/25 16:13	3
890-7926-6	CS - 6	Solid	04/09/25 10:25	04/10/25 16:13	3
890-7926-7	CS - 7	Solid	04/09/25 10:30	04/10/25 16:13	3
890-7926-8	CS - 8	Solid	04/09/25 10:35	04/10/25 16:13	2
890-7926-9	CS - 9	Solid	04/09/25 10:40	04/10/25 16:13	3
890-7926-10	CS - 10	Solid	04/09/25 10:45	04/10/25 16:13	3
890-7926-11	CS - 11	Solid	04/09/25 10:50	04/10/25 16:13	3
890-7926-12	CS - 12	Solid	04/09/25 10:55	04/10/25 16:13	3
890-7926-13	CS - 13	Solid	04/09/25 11:00	04/10/25 16:13	3
890-7926-14	CS - 14	Solid	04/09/25 11:05	04/10/25 16:13	3
890-7926-15	CS - 15	Solid	04/09/25 11:10	04/10/25 16:13	3
890-7926-16	CS - 16	Solid	04/09/25 11:15	04/10/25 16:13	3
890-7926-17	CS - 17	Solid	04/09/25 11:20	04/10/25 16:13	1.5
890-7926-18	CS - 18	Solid	04/10/25 11:20	04/10/25 16:13	2
890-7926-19	CS - 19	Solid	04/10/25 11:25	04/10/25 16:13	2
890-7926-20	CS - 20	Solid	04/10/25 11:30	04/10/25 16:13	2
890-7926-21	CS - 21	Solid	04/09/25 11:40	04/10/25 16:13	3
890-7926-22	CS - 22	Solid	04/09/25 11:45	04/10/25 16:13	3
890-7926-23	CS - 23	Solid	04/09/25 11:50	04/10/25 16:13	3
890-7926-24	CS - 28	Solid	04/09/25 11:55	04/10/25 16:13	3
890-7926-25	CS - 29	Solid	04/10/25 11:05	04/10/25 16:13	3
890-7926-26	CS - 30	Solid	04/10/25 11:10	04/10/25 16:13	2
890-7926-27	CS - 31	Solid	04/10/25 11:15	04/10/25 16:13	2



Environment Testing
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Chain of Custody

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EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 3

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

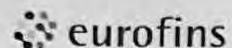
Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:	CTB-317 (SW Crude 6in)		Turn Around		ANALYSIS REQUEST												Preservative Codes										
Project Number:	2825		☒ Routine ☐ Rush														None: NO DI Water: H ₂ O										
Project Location:	Lea County, NM		Due Date:	Routine TAT													Cool: Cool MeOH: Me										
Sampler's Name:	Gilbert Moreno, Santiago Giron		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO ₃ : HN								
PO/WO #:																			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	Correction Factor:													Na ₂ S ₂ O ₃ : NaSO ₃											
Sample Custody Seals:	Yes	No	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	
CS-1			S	4.9.25	10:00	3	Comp	1	X	X	X															Incident Number	
CS-2			S	4.9.25	10:05	3	Comp	1	X	X	X															nAPP2431159375	
CS-3			S	4.10.25	11:00	2	Comp	1	X	X	X																
CS-4			S	4.9.25	10:15	3	Comp	1	X	X	X																
CS-5			S	4.9.25	10:20	3	Comp	1	X	X	X																
CS-6			S	4.9.25	10:25	3	Comp	1	X	X	X																
CS-7			S	4.9.25	10:30	3	Comp	1	X	X	X																
CS-8			S	4.9.25	10:35	2	Comp	1	X	X	X																
CS-9			S	4.9.25	10:40	3	Comp	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 Metal(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
		4/16/16			



Environment Testing
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Chain of Custody

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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 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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 ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		CTB-317 (SW Crude 6in)		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number:		2825		☒ Routine ☐ Rush		Pres. Code														None: NO DI Water: H ₂ O			
Project Location:		Lea County, NM		Due Date:		Routine TAT														Cool: Cool MeOH: Me			
Sampler's Name:		Gilbert Moreno, Santiago Giron		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO ₃ : HN					
PO/WO #:																		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 ₃ : 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	
CS-10		S	4.9.25	10:45	3	Comp	1	X	X	X												Incident Number	
CS-11		S	4.9.25	10:50	3	Comp	1	X	X	X												nAPP2431159375	
CS-12		S	4.9.25	10:55	3	Comp	1	X	X	X													
CS-13		S	4.9.25	11:00	3	Comp	1	X	X	X													
CS-14		S	4.9.25	11:05	3	Comp	1	X	X	X													
CS-15		S	4.9.25	11:10	3	Comp	1	X	X	X													
CS-16		S	4.9.25	11:15	3	Comp	1	X	X	X													
CS-17		S	4.9.25	11:20	1.5	Comp	1	X	X	X													
CS-18		S	4.10.25	11:20	2	Comp	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 SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(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>	4/10/16 '13			



Environment Testing
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Chain of Custody

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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: _____

www.xenco.com Page 3 of 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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 ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes									
Project Number:	2825	☒ Routine ☐ Rush		Pres. Code													None: NO	DI Water: H ₂ O							
Project Location:	Lea County, NM	Due Date:	Routine TAT														Cool: Cool	MeOH: Me							
Sampler's Name:	Gilbert Moreno, Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO ₃ : HN							
POWOW #:																	H ₂ SO ₄ : H ₂	NaOH: Na							
SAMPLE RECEIPT		Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No	Parameters												H ₃ PO ₄ : HP							
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	TMM007		NaHSO ₄ : NABIS																				
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Correction Factor:	-0.2		Na ₂ S ₂ O ₃ : NaSO ₃																				
Sample Custody Seals:	Yes ☐ No ☒ N/A	Temperature Reading:	-6.8		Zn Acetate+NaOH: Zn																				
Total Containers:		Corrected Temperature:	-6.6		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	
CS-19	S	4.10.25	11:25	2	Comp	1	X	X	X															Incident Number	
CS-20	S	4.10.25	11:30	2	Comp	1	X	X	X															nAPP2431159375	
CS-21	S	4.9.25	11:40	3	Comp	1	X	X	X																
CS-22	S	4.9.25	11:45	3	Comp	1	X	X	X																
CS-23	S	4.9.25	11:50	3	Comp	1	X	X	X																
CS-24 CS-28	S	4.9.25	11:55	3	Comp	1	X	X	X																
CS-25 CS-29	S	4.10.25	11:05	3	Comp	1	X	X	X																
CS-26 CS-30	S	4.10.25	11:10	2	Comp	1	X	X	X																
CS-27 CS-31	S	4.10.25	11:15	2	Comp	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 Metal(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>	4/10 16'13			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7926-1

SDG Number: Lea County, NM

Login Number: 7926

List Number: 1

Creator: Bruns, Shannon

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: 890-7926-1

SDG Number: Lea County, NM

Login Number: 7926

List Number: 2

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 04/11/25 08:18 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	



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 4/16/2025 1:49:13 PM

JOB DESCRIPTION

CTB-317 (SW CRUDE 6IN)
Lea County, NM

JOB NUMBER

890-7925-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



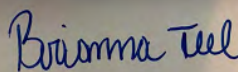
Eurofins Carlsbad

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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4/16/2025 1:49:13 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: CTB-317 (SW CRUDE 6IN)

Laboratory Job ID: 890-7925-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Earth Systems Response and Restoration
Project: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1

Job ID: 890-7925-1

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Job Narrative 890-7925-1

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 4/10/2025 4:13 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 -6.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-1 (890-7925-1), SW-3 (890-7925-2), SW-4 (890-7925-3) and SW-5 (890-7925-4).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-107581/2-A) and (LCSD 880-107581/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

Client Sample ID: SW-1

Lab Sample ID: 890-7925-1

Date Collected: 04/09/25 12:00

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 0-3

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		04/11/25 09:47	04/11/25 12:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 12:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 12:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 12:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 12:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/11/25 09:47	04/11/25 12:56	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/11/25 09:47	04/11/25 12:56	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			04/11/25 12:56	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			04/16/25 04:49	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		04/14/25 11:09	04/16/25 04:49	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/14/25 11:09	04/16/25 04:49	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/14/25 11:09	04/16/25 04:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/14/25 11:09	04/16/25 04:49	1
o-Terphenyl	85		70 - 130	04/14/25 11:09	04/16/25 04:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		10.1		mg/Kg			04/11/25 16:43	1

Client Sample ID: SW-3

Lab Sample ID: 890-7925-2

Date Collected: 04/09/25 12:05

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 0-3

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		04/11/25 09:47	04/11/25 13:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 13:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 13:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/11/25 09:47	04/11/25 13:17	1
o-Xylene	0.00246		0.00200		mg/Kg		04/11/25 09:47	04/11/25 13:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/11/25 09:47	04/11/25 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	04/11/25 09:47	04/11/25 13:17	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

Client Sample ID: SW-3

Lab Sample ID: 890-7925-2

Date Collected: 04/09/25 12:05

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 0-3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	04/11/25 09:47	04/11/25 13:17	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			04/11/25 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			04/16/25 05:38	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	<49.6	U	49.6		mg/Kg		04/14/25 11:10	04/16/25 05:38	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/14/25 11:10	04/16/25 05:38	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/14/25 11:10	04/16/25 05:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/14/25 11:10	04/16/25 05:38	1
o-Terphenyl	83		70 - 130				04/14/25 11:10	04/16/25 05:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		10.0		mg/Kg			04/11/25 17:05	1

Client Sample ID: SW-4

Lab Sample ID: 890-7925-3

Date Collected: 04/09/25 12:10

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 0-3

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		04/11/25 09:47	04/11/25 13:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 13:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 13:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 13:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/11/25 09:47	04/11/25 13:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/11/25 09:47	04/11/25 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/11/25 09:47	04/11/25 13:37	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/11/25 09:47	04/11/25 13:37	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			04/11/25 13:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			04/16/25 05:55	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

Client Sample ID: SW-4

Lab Sample ID: 890-7925-3

Date Collected: 04/09/25 12:10

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 0-3

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	<50.5	U	50.5		mg/Kg		04/14/25 11:10	04/16/25 05:55	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		04/14/25 11:10	04/16/25 05:55	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		04/14/25 11:10	04/16/25 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/14/25 11:10	04/16/25 05:55	1
o-Terphenyl	87		70 - 130				04/14/25 11:10	04/16/25 05:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	232		10.1		mg/Kg			04/11/25 17:12	1

Client Sample ID: SW-5

Lab Sample ID: 890-7925-4

Date Collected: 04/09/25 11:35

Matrix: Solid

Date Received: 04/10/25 16:13

Sample Depth: 0-3

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		04/11/25 09:47	04/11/25 13:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:47	04/11/25 13:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:47	04/11/25 13:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/11/25 09:47	04/11/25 13:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/11/25 09:47	04/11/25 13:58	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/11/25 09:47	04/11/25 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/11/25 09:47	04/11/25 13:58	1
1,4-Difluorobenzene (Surr)	95		70 - 130				04/11/25 09:47	04/11/25 13:58	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			04/11/25 13:58	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			04/16/25 06:11	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		04/14/25 11:10	04/16/25 06:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/14/25 11:10	04/16/25 06:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/14/25 11:10	04/16/25 06:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/14/25 11:10	04/16/25 06:11	1
o-Terphenyl	88		70 - 130				04/14/25 11:10	04/16/25 06:11	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

Client Sample ID: SW-5
Date Collected: 04/09/25 11:35
Date Received: 04/10/25 16:13
Sample Depth: 0-3

Lab Sample ID: 890-7925-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		9.96		mg/Kg			04/11/25 17:19	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
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)
890-7925-1	SW-1	105	97
890-7925-2	SW-3	96	88
890-7925-3	SW-4	100	88
890-7925-4	SW-5	110	95
LCS 880-107441/1-A	Lab Control Sample	96	116
LCSD 880-107441/2-A	Lab Control Sample Dup	94	117
MB 880-107441/5-A	Method Blank	101	77
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)
890-7925-1	SW-1	92	85
890-7925-1 MS	SW-1	109	92
890-7925-1 MSD	SW-1	88	91
890-7925-2	SW-3	85	83
890-7925-3	SW-4	89	87
890-7925-4	SW-5	92	88
LCS 880-107581/2-A	Lab Control Sample	142 S1+	153 S1+
LCSD 880-107581/3-A	Lab Control Sample Dup	146 S1+	156 S1+
MB 880-107581/1-A	Method Blank	86	87
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-107441/5-A

Matrix: Solid

Analysis Batch: 107425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 12:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 12:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 12:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/11/25 09:47	04/11/25 12:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/11/25 09:47	04/11/25 12:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/11/25 09:47	04/11/25 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/11/25 09:47	04/11/25 12:14	1
1,4-Difluorobenzene (Surr)	77		70 - 130	04/11/25 09:47	04/11/25 12:14	1

Lab Sample ID: LCS 880-107441/1-A

Matrix: Solid

Analysis Batch: 107425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1192		mg/Kg		119	70 - 130
Toluene	0.100	0.1095		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1167		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2204		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1048		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: LCSD 880-107441/2-A

Matrix: Solid

Analysis Batch: 107425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107441

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1239		mg/Kg		124	70 - 130	4	35
Toluene	0.100	0.1101		mg/Kg		110	70 - 130	1	35
Ethylbenzene	0.100	0.1131		mg/Kg		113	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2159		mg/Kg		108	70 - 130	2	35
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-107581/1-A

Matrix: Solid

Analysis Batch: 107706

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107581

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		04/14/25 11:09	04/16/25 04:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/14/25 11:09	04/16/25 04:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/14/25 11:09	04/16/25 04:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				04/14/25 11:09	04/16/25 04:01	1
o-Terphenyl	87		70 - 130				04/14/25 11:09	04/16/25 04:01	1

Lab Sample ID: LCS 880-107581/2-A

Matrix: Solid

Analysis Batch: 107706

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1115		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1284		mg/Kg		128	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	142	S1+	70 - 130				
o-Terphenyl	153	S1+	70 - 130				

Lab Sample ID: LCSD 880-107581/3-A

Matrix: Solid

Analysis Batch: 107706

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107581

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1183		mg/Kg		118	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1294		mg/Kg		129	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	146	S1+	70 - 130						
o-Terphenyl	156	S1+	70 - 130						

Lab Sample ID: 890-7925-1 MS

Matrix: Solid

Analysis Batch: 107706

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 107581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	998	811.4		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U	998	772.6		mg/Kg		76	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

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

Lab Sample ID: 890-7925-1 MS

Matrix: Solid

Analysis Batch: 107706

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 107581

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-7925-1 MSD

Matrix: Solid

Analysis Batch: 107706

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 107581

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	<49.7	U	998	751.7		mg/Kg		75	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.7	U	998	815.3		mg/Kg		80	70 - 130	5	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	88		70 - 130								
o-Terphenyl	91		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107438/1-A

Matrix: Solid

Analysis Batch: 107465

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			04/11/25 16:22	1

Lab Sample ID: LCS 880-107438/2-A

Matrix: Solid

Analysis Batch: 107465

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.4		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-107438/3-A

Matrix: Solid

Analysis Batch: 107465

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	236.6		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 890-7925-1 MS

Matrix: Solid

Analysis Batch: 107465

Client Sample ID: SW-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	186		252	412.5		mg/Kg		90	90 - 110

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7925-1 MSD					Client Sample ID: SW-1							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 107465												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	186		252	415.4		mg/Kg		91	90 - 110	1	20	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 107425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7925-1	SW-1	Total/NA	Solid	8021B	107441
890-7925-2	SW-3	Total/NA	Solid	8021B	107441
890-7925-3	SW-4	Total/NA	Solid	8021B	107441
890-7925-4	SW-5	Total/NA	Solid	8021B	107441
MB 880-107441/5-A	Method Blank	Total/NA	Solid	8021B	107441
LCS 880-107441/1-A	Lab Control Sample	Total/NA	Solid	8021B	107441
LCSD 880-107441/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107441

Prep Batch: 107441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7925-1	SW-1	Total/NA	Solid	5035	
890-7925-2	SW-3	Total/NA	Solid	5035	
890-7925-3	SW-4	Total/NA	Solid	5035	
890-7925-4	SW-5	Total/NA	Solid	5035	
MB 880-107441/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107441/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107441/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 107499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7925-1	SW-1	Total/NA	Solid	Total BTEX	
890-7925-2	SW-3	Total/NA	Solid	Total BTEX	
890-7925-3	SW-4	Total/NA	Solid	Total BTEX	
890-7925-4	SW-5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 107581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7925-1	SW-1	Total/NA	Solid	8015NM Prep	
890-7925-2	SW-3	Total/NA	Solid	8015NM Prep	
890-7925-3	SW-4	Total/NA	Solid	8015NM Prep	
890-7925-4	SW-5	Total/NA	Solid	8015NM Prep	
MB 880-107581/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107581/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107581/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7925-1 MS	SW-1	Total/NA	Solid	8015NM Prep	
890-7925-1 MSD	SW-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7925-1	SW-1	Total/NA	Solid	8015B NM	107581
890-7925-2	SW-3	Total/NA	Solid	8015B NM	107581
890-7925-3	SW-4	Total/NA	Solid	8015B NM	107581
890-7925-4	SW-5	Total/NA	Solid	8015B NM	107581
MB 880-107581/1-A	Method Blank	Total/NA	Solid	8015B NM	107581
LCS 880-107581/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107581
LCSD 880-107581/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107581
890-7925-1 MS	SW-1	Total/NA	Solid	8015B NM	107581
890-7925-1 MSD	SW-1	Total/NA	Solid	8015B NM	107581

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 107877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7925-1	SW-1	Total/NA	Solid	8015 NM	
890-7925-2	SW-3	Total/NA	Solid	8015 NM	
890-7925-3	SW-4	Total/NA	Solid	8015 NM	
890-7925-4	SW-5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 107438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7925-1	SW-1	Soluble	Solid	DI Leach	
890-7925-2	SW-3	Soluble	Solid	DI Leach	
890-7925-3	SW-4	Soluble	Solid	DI Leach	
890-7925-4	SW-5	Soluble	Solid	DI Leach	
MB 880-107438/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107438/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107438/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7925-1 MS	SW-1	Soluble	Solid	DI Leach	
890-7925-1 MSD	SW-1	Soluble	Solid	DI Leach	

Analysis Batch: 107465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7925-1	SW-1	Soluble	Solid	300.0	107438
890-7925-2	SW-3	Soluble	Solid	300.0	107438
890-7925-3	SW-4	Soluble	Solid	300.0	107438
890-7925-4	SW-5	Soluble	Solid	300.0	107438
MB 880-107438/1-A	Method Blank	Soluble	Solid	300.0	107438
LCS 880-107438/2-A	Lab Control Sample	Soluble	Solid	300.0	107438
LCSD 880-107438/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107438
890-7925-1 MS	SW-1	Soluble	Solid	300.0	107438
890-7925-1 MSD	SW-1	Soluble	Solid	300.0	107438

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

Client Sample ID: SW-1

Lab Sample ID: 890-7925-1

Date Collected: 04/09/25 12:00

Matrix: Solid

Date Received: 04/10/25 16:13

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	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107499	04/11/25 12:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107877	04/16/25 04:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	107581	04/14/25 11:09	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 04:49	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 16:43	CH	EET MID

Client Sample ID: SW-3

Lab Sample ID: 890-7925-2

Date Collected: 04/09/25 12:05

Matrix: Solid

Date Received: 04/10/25 16:13

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	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107499	04/11/25 13:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107877	04/16/25 05:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 05:38	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 17:05	CH	EET MID

Client Sample ID: SW-4

Lab Sample ID: 890-7925-3

Date Collected: 04/09/25 12:10

Matrix: Solid

Date Received: 04/10/25 16:13

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	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 13:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107499	04/11/25 13:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			107877	04/16/25 05:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 05:55	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 17:12	CH	EET MID

Client Sample ID: SW-5

Lab Sample ID: 890-7925-4

Date Collected: 04/09/25 11:35

Matrix: Solid

Date Received: 04/10/25 16:13

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	107441	04/11/25 09:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107425	04/11/25 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107499	04/11/25 13:58	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

Client Sample ID: SW-5
Date Collected: 04/09/25 11:35
Date Received: 04/10/25 16:13

Lab Sample ID: 890-7925-4
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			107877	04/16/25 06:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	107581	04/14/25 11:10	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107706	04/16/25 06:11	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	107438	04/11/25 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	107465	04/11/25 17:19	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: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
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

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Method Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
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: CTB-317 (SW CRUDE 6IN)

Job ID: 890-7925-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7925-1	SW-1	Solid	04/09/25 12:00	04/10/25 16:13	0-3
890-7925-2	SW-3	Solid	04/09/25 12:05	04/10/25 16:13	0-3
890-7925-3	SW-4	Solid	04/09/25 12:10	04/10/25 16:13	0-3
890-7925-4	SW-5	Solid	04/09/25 11:35	04/10/25 16:13	0-3

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 502-0300
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

Chain of Custody

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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 ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other:

[illegible]

Total 200.7 / 6010 200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed

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	Ti	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 Xencro. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xencro 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 Xencro. A minimum charge of \$86.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xencro, 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
		4/10 16 '13			

Revised Date 08/25/2020 Rev. 2020

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7925-1

SDG Number: Lea County, NM

Login Number: 7925

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: 890-7925-1

SDG Number: Lea County, NM

Login Number: 7925

List Number: 2

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 04/11/25 08:18 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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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

QUESTIONS

Action 271205

QUESTIONS

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 271205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2431159375
Incident Name	NAPP2431159375 CTB-317 (SW CRUDE 6IN) @ 30-025-49210
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-49210] SEAWOLF 12 1 FEDERAL #011H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CTB-317 (SW Crude 6in)
Date Release Discovered	11/05/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil 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	Cause: Equipment Failure Pipeline (Any) Crude Oil Released: 33 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 33 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Release volume is estimated to be greater than 25 bbls due to pipeline control center alarms received at 23:03 CST on 11/5/2024. The actual amount of the release is under investigation.

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QUESTIONS, Page 2

Action 271205

QUESTIONS (continued)

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 271205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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: Matt Krakow Title: Environmental Professional Email: mjakrow@marathonpetroleum.com Date: 02/05/2025
--	--

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QUESTIONS, Page 3

Action 271205

QUESTIONS (continued)

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 271205
	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 100 and 500 (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	Zero feet, overlying, or within area
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)	393
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4930
GRO+DRO (EPA SW-846 Method 8015M)	4930
BTEX (EPA SW-846 Method 8021B or 8260B)	45.8
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	02/12/2025
On what date will (or did) the final sampling or liner inspection occur	02/13/2025
On what date will (or was) the remediation complete(d)	04/29/2025
What is the estimated surface area (in square feet) that will be reclaimed	6200
What is the estimated volume (in cubic yards) that will be reclaimed	740
What is the estimated surface area (in square feet) that will be remediated	6200
What is the estimated volume (in cubic yards) that will be remediated	740
<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 271205

QUESTIONS (continued)

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 271205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	OWL LANDFILL JAL [fJEG1635837366]
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: Matt Krakow Title: Environmental Professional Email: mjakrow@marathonpetroleum.com Date: 05/02/2025
<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 271205

QUESTIONS (continued)

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 271205
	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 271205

QUESTIONS (continued)

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 271205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	447955
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/10/2025
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	3400

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	6200
What was the total volume (cubic yards) remediated	740
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	6200
What was the total volume (in cubic yards) reclaimed	740
Summarize any additional remediation activities not included by answers (above)	None
<i>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>	
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: Matt Krakow Title: Environmental Professional Email: mjakrow@marathonpetroleum.com Date: 05/02/2025

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QUESTIONS, Page 7

Action 271205

QUESTIONS (continued)

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 271205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 271205

CONDITIONS

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 271205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The remediation closure is approved.	8/15/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	8/15/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	8/15/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	8/15/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	8/15/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	8/15/2025