



February 14, 2025

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

RE: **Gaucha Booster Station - Closure Request Report**
Incident Number: nAPP2430237976
GPS: 32.311583°, -103.51125°
Lea County, New Mexico
ESRR Project No. 2615

To Whom It May Concern:

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

Site Location & Incident Description

The Site is located in Unit C, Section 18, Township 23 South, Range 34 East, in Lea County, New Mexico (32.311583°, -103.51125°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1**).

On October 25, 2024, an above ground flowline failed, causing the release of approximately 40 barrels (bbl) of produced water onto a WPX right-of-way (ROW). A vacuum truck was immediately dispatched to the Site and recovered 34 bbls of fluids. ESRR conducted initial site assessment activities and mapped the observed release footprint on October 28, 2024, hereafter referred to as the Area of Concern (AOC) (**Figure 2**). WPX gave notice to the New Mexico Oil Conservation Division (NMOCD) on October 28, 2024, by Notification of Release (NOR) and was subsequently assigned Incident Number nAPP2425330146. A Corrective Action Form C-141 (Form C-141) was submitted on November 4, 2024.

On January 21, 2025, WPX requested an extension of the January 23, 2025 deadline, to allow additional time for final restoration activities and for ESRR to finalize this CRR. WPX was granted a 90-day extension by the NMOCD for April 21, 2025.

Site Characterization

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

- o Between 1 and 5 miles of any continuously flowing watercourse or any other significant watercourse;
- o Between ½ and 1 mile of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- o Greater than 5 mil Between 1 and 5 miles of any occupied permanent residence, school, hospital, institution or church;

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- o Between 1 and 5 miles 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 1,000 feet and ½ mile of any wetland;
- o Greater than 5 miles of any subsurface mine;
- o Greater than 5 miles of any unstable area (i.e. high 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 Records** for the closest depth to water wells are attached.

Based on the results from the desktop review and depth to water estimated to be greater than 100 feet below ground surface (bgs), the following Closure Criteria was applied:

Constituents of Concern (COCs)	Closure Criteria [‡]
Chloride	20,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	2,500 mg/kg
Gasoline Range Organics (GRO) + Diesel Range Organics (ORO)	1,000 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.

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

Delineation Activities

On November 5, 2024, ESRR conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Fifteen delineation boreholes (BH-1 through BH-15) were advanced via hand auger within and surrounding the AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of two soil samples were collected from each delineation borehole, representing the highest observed field screening concentrations and the greatest depth. Delineation soil samples were placed directly into pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-of-custody procedures, to Envirotech in Farmington, New Mexico, for analysis of the COCs. **Soil Sampling Logs** and **Photographic Documentation** of all activities are attached.

Laboratory analytical results for soil samples collected within (BH-4, BH-5, BH-8) and surrounding (BH-1, BH-11 through BH-15) the AOC were compliant with Site Closure Criteria and/or the reclamation standard defining the horizontal periphery of the AOC.

Laboratory analytical results for samples collected within the AOC (BH-2, BH-3, BH-6, BH-7, BH-9) indicated Chloride was above the Site Closure Criteria and/or the reclamation standard up to 2 feet bgs. Elevated Chloride concentrations were characterized by concentrations ranging from 630 mg/kg to 3,350 mg/kg. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 2**.

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Remediation Activities

From December 2024 through January 9, 2025, ESRR oversaw excavation activities of identified impacts performed via mechanical equipment based on laboratory analytical results associated with delineation soil sampling activities and visual observation. The excavation was vertically advanced to depths approximately ranging from ½ a foot to 2-feet bgs.

Following the removal of soil, ESRR collected 5-point composite soil samples at a sampling frequency of 200 square feet from the excavation floor (CS-1 through CS-31) and sidewalls (SW-1 through SW-4). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon resealable plastic bag. The confirmation soil samples were handled, transported, and analyzed as previously described.

Laboratory analytical results for confirmation soil samples (CS-10, CS-14 through CS-16, CS-21, CS-22, CS-24, CS-26) indicated Chloride concentrations were above the Site Closure Criteria and/or the reclamation standard. Elevated Chloride concentrations were characterized by concentrations ranging from 632 mg/kg to 783 mg/kg at ½ a foot and 2-foot bgs.

Additional excavation in the proximities to confirmation soil samples (CS-10, CS-14 through CS-16, CS-21, CS-22, CS-24, CS-26) were vertically advanced to depths ranging from 1.5-feet and 3-feet bgs. Following the removal of soil, ESRR collected, handled, transported, and analyzed the final confirmation soil samples as previously described.

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

Closure Request

Based on laboratory analytical results, impacts associated with the inadvertent release have been delineated, excavated and removed from the Site in accordance with Site Closure Criteria. WPX 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 WPX respectfully requests Closure of this CRR associated with Incident Number nAPP2430237976.

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: Jim Raley, WPX Energy Permian, LLC
Bureau of Land Management

Attachments:

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

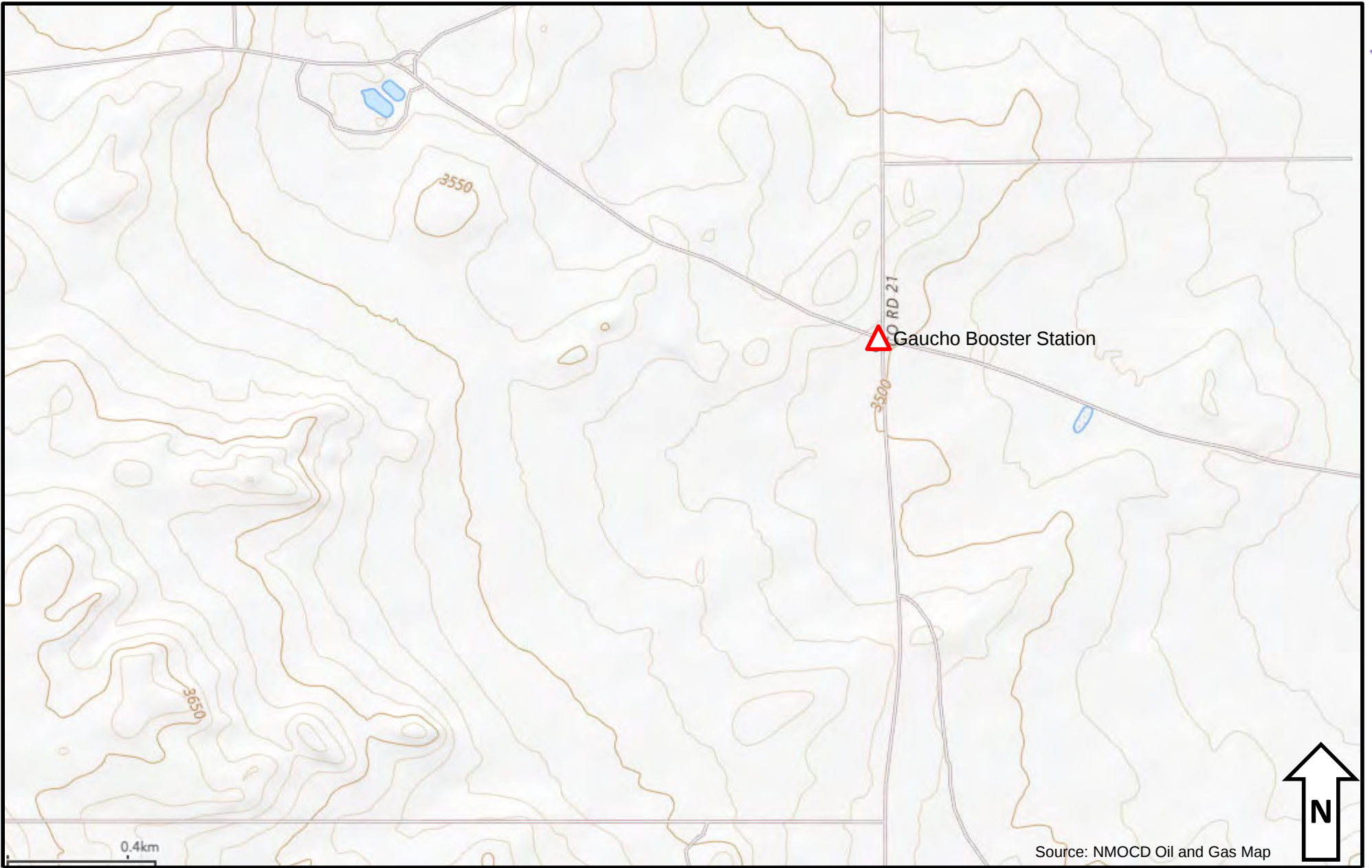


Figure 1 – Site Map

WPX Energy Permian – Gaucho Booster Station
GPS: 32.31158,-103.51125
Lea County, New Mexico

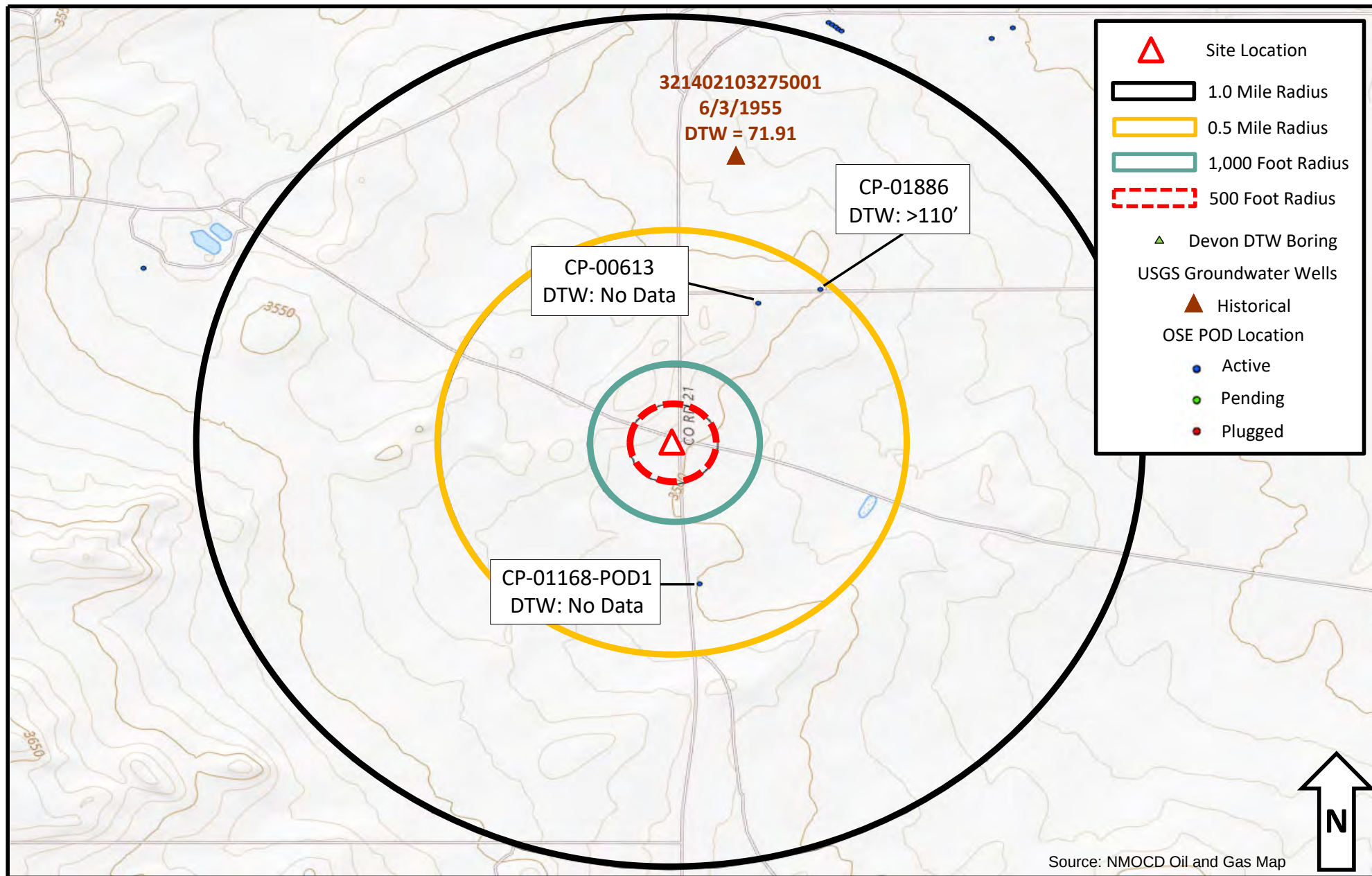


Figure 1A – Ground Water

WPX Energy Permian – Gaucho Booster Station
 GPS: 32.31158,-103.51125
 Lea County, New Mexico

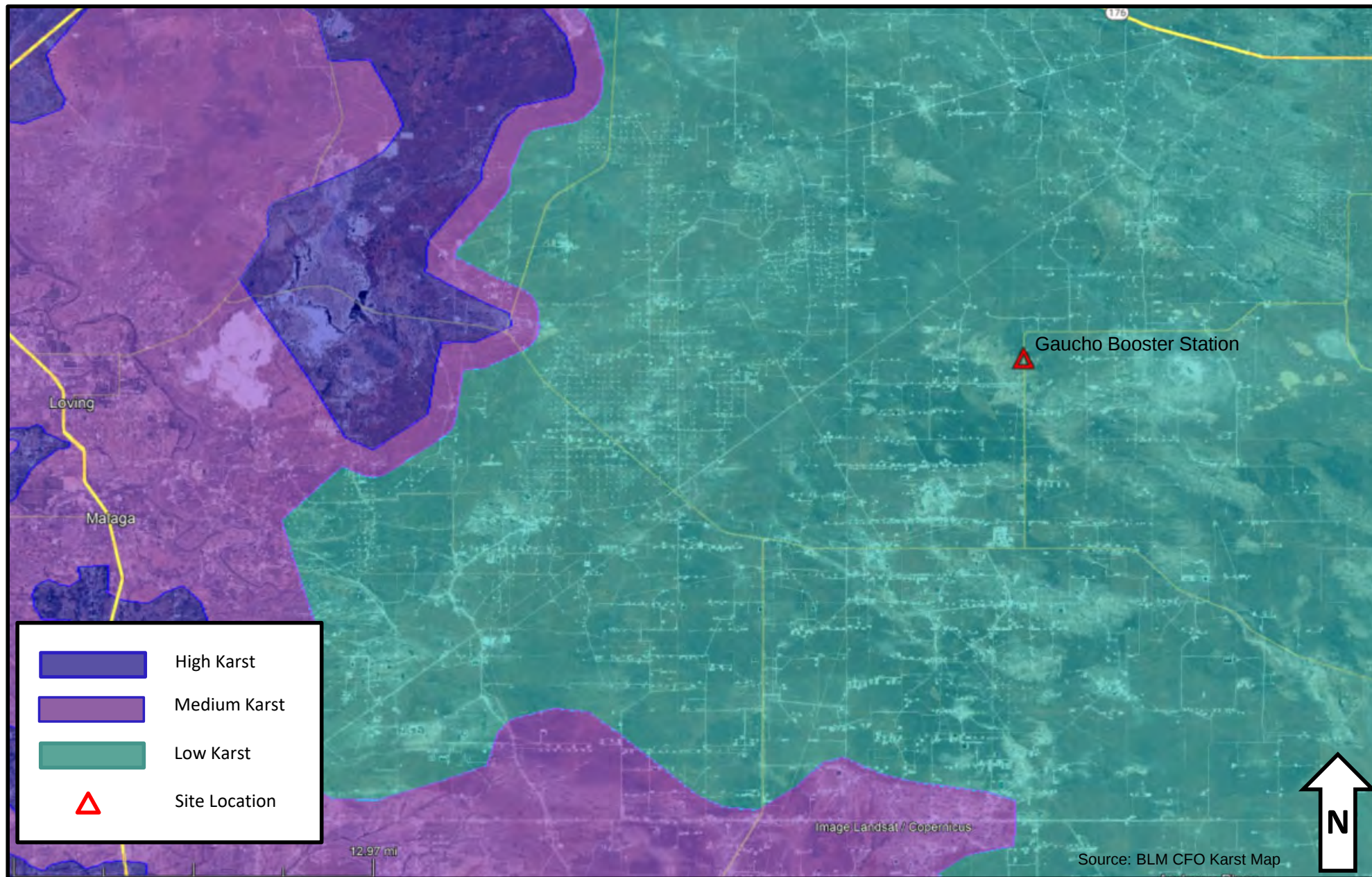
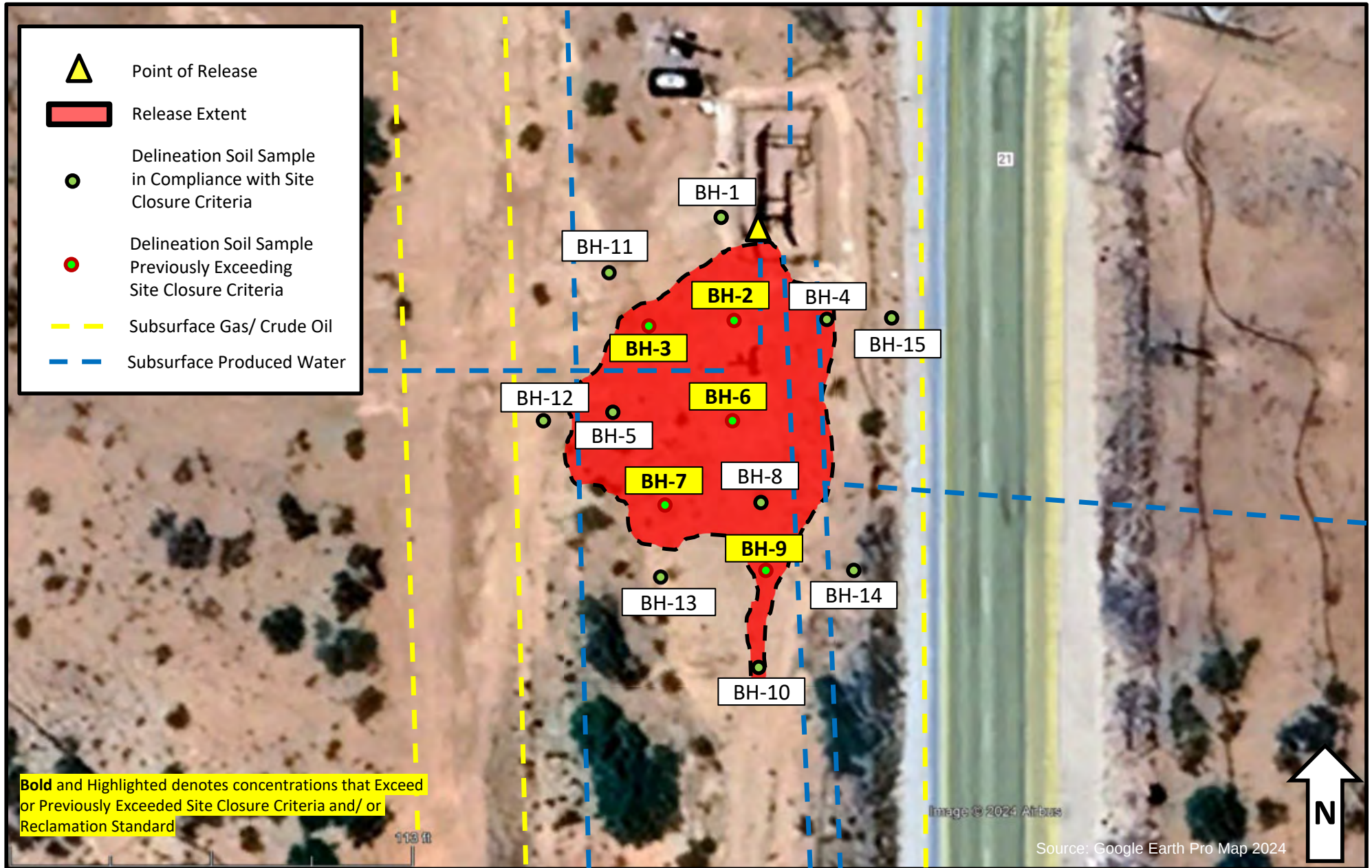


Figure 1B – Karst Potential

WPX Energy Permian – Gaucho Booster Station
GPS: 32.31158,-103.51125
Lea County, New Mexico



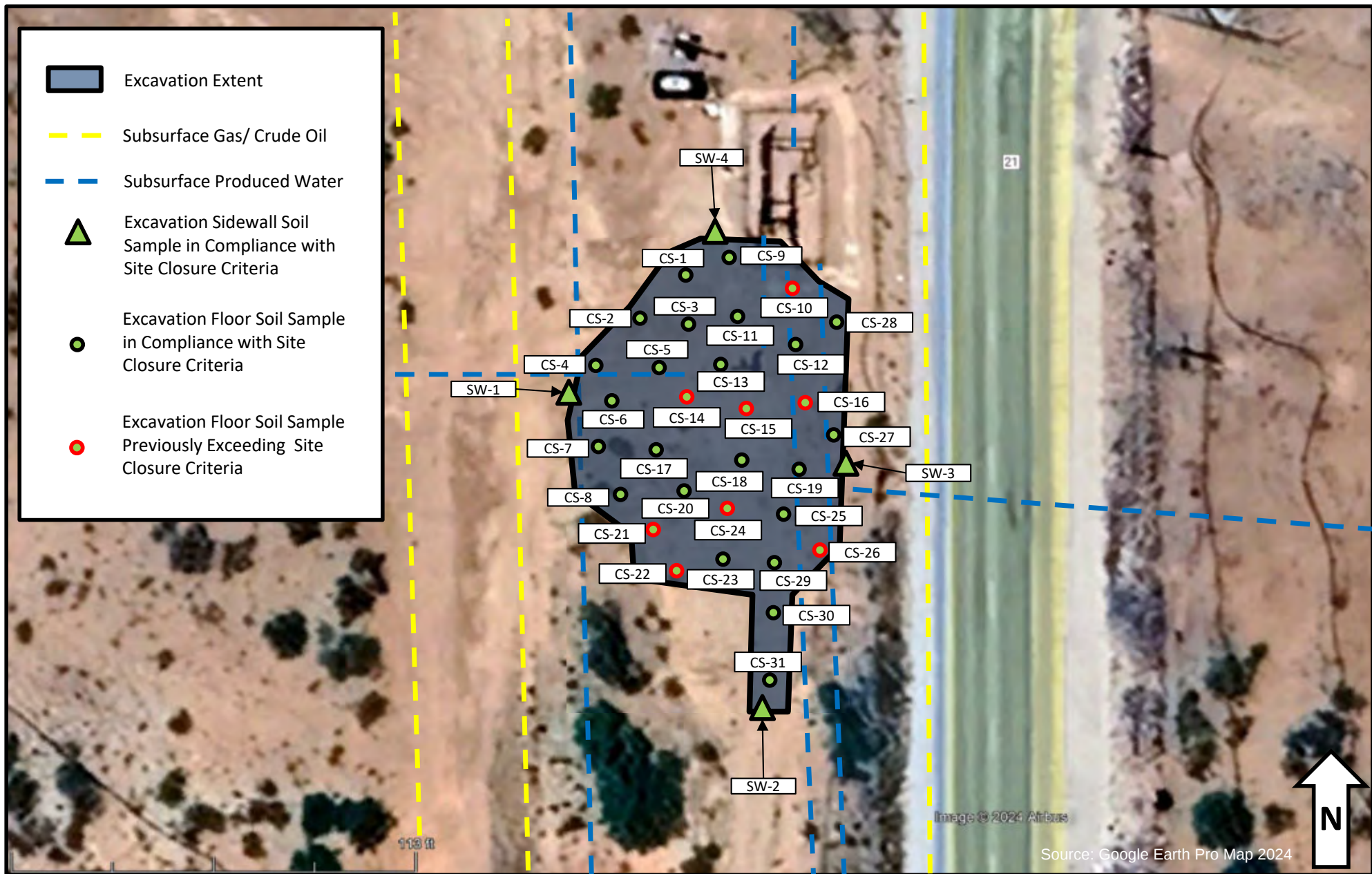


Figure 3 – Excavation Soil Sample Locations

WPX Energy Permian – Gaucho Booster Station
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Lea County, New Mexico



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (EW-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1886			
	WELL OWNER NAME(S) Kaiser-Francis Oil Company				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6733 S. Yale Ave				CITY Tulsa	STATE OK	ZIP 74136	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 19	SECONDS 0.91 N	• ACCURACY REQUIRED: ONE TENTH OF A SECOND • DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW SE Sec. 7 T23S R34E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 09/09/2021	DRILLING ENDED 09/09/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 105		±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	CP-1886	POD NO.	1	TRN NO.	702706
LOCATION	23S:34E:7.414			WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Sand, Medium/Fine grained, poorly graded, caliche gravel Brown	Y ✓ N	
	4	9	5	Caliche, with fine-grained sand, Off White/ Tan	Y ✓ N	
	9	105	96	Sand, Fine grained, poorly graded, with caliche gravel, Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt 09E DII SEP 24 2021 PM 10:58					
6. 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 30 DAYS AFTER COMPLETION OF WELL DRILLING:  SIGNATURE OF DRILLER / PRINT SIGNED NAME Jackie D. Atkins DATE					

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

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PHOTO 1: Northeastern view during initial site assessment by WPX. 10/25/2024



PHOTO 2: Northeastern view during initial site assessment. 10/28/2024

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PHOTO 3: Northeastern view during delineation activities. 11/05/2024



PHOTO 4: Southern view during delineation activities. 11/05/2024

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PHOTO 5: Northeastern view during delineation activities. 11/05/2024



PHOTO 6: Southwestern view during excavation activities. 12/24/2024

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PHOTO 7: Southwestern view during excavation activities. 12/24/2024



PHOTO 8: Northeastern view of final Excavation Extent. 01/09/2025

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PHOTO 9: Northwestern view of final Excavation Extent. 01/09/2025



PHOTO 10: Southeastern view following restoration activities. 02/04/2025



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Gaucha Booster Station
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)	DRO + GRO (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	1,000	2,500	20,000
Delineation Soil Samples - nAPP2430237976										
BH-1	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	213
BH-1	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	34.7
BH-1	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	54.3
BH-1	11/05/24	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	182
BH-1	11/05/24	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	36.8
BH-2 ⁺	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	3,350
BH-2 ⁺	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	830
BH-2	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	104
BH-2	11/05/24	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	38.1
BH-2	11/05/24	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	23.9
BH-3 ⁺	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	2,690
BH-3	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	37.9
BH-3	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	59.3
BH-3	11/05/24	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	26.5
BH-3	11/05/24	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	45.7
BH-4	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	496
BH-4	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	251
BH-4	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	493
BH-4	11/05/24	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	535
BH-4	11/05/24	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	327
BH-5	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-5	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-5	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-5	11/05/24	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-5	11/05/24	3.5R	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	20.5



Table 1
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Gaucha Booster Station
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)	DRO + GRO (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	1,000	2,500	20,000
Delineation Soil Samples - nAPP2430237976										
BH-6 ⁺	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	1,170
BH-6 ⁺	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	631
BH-6	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	594
BH-6	11/05/24	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	583
BH-6	11/05/24	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	466
BH-7 ⁺	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	2,460
BH-7 ⁺	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	1,430
BH-7	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	42.7
BH-7	11/05/24	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-7	11/05/24	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	24.9
BH-8	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	534
BH-8	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	112
BH-8	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	189
BH-8	11/05/24	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	203
BH-8	11/05/24	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	195
BH-9 ⁺	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	2,430
BH-9	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	576
BH-9	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	561
BH-9	11/05/24	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	437
BH-9	11/05/24	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	306
BH-10	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	61.3
BH-10	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	26.7
BH-10	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-10	11/05/24	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	70.4
BH-10	11/05/24	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	25.9



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Gaucha Booster Station
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)	DRO + GRO (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	1,000	2,500	20,000
Delineation Soil Samples - nAPP2430237976										
BH-11	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-11	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-12	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-12	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-12	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-13	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-13	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-13	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	<20.0
BH-14	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	104
BH-14	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	284
BH-14	11/05/24	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	50.9
BH-15	11/05/24	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	65.0
BH-15	11/05/24	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<45.0	<95.0	39.9
Confirmation Soil Samples - nAPP2430237976										
CS - 1	12/24/24	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	198
CS - 2	12/24/24	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	126
CS - 3	12/24/24	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	279
CS - 4	12/24/24	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	127
CS - 5	12/24/24	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	125
CS - 6	12/24/24	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	173
CS - 7	12/24/24	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	166
CS - 8	12/24/24	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	185
CS - 9	12/24/24	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	104
CS - 10 ⁺	12/24/24	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	635
CS - 10	01/09/25	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	44.6
CS - 11	12/24/24	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	111
CS - 12	12/24/24	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	586
CS - 13	12/24/24	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	282
CS - 14 ⁺	12/24/24	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	684
CS - 14	01/09/25	3	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	42.9
CS - 15 ⁺	12/24/24	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	865
CS - 15	01/09/25	3	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	72.6



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Gaucho Booster Station
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)	DRO + GRO (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	1,000	2,500	20,000
Confirmation Soil Samples - nAPP2430237976										
CS - 16 [†]	12/24/24	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	632
CS - 16	01/09/25	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	73.5
CS - 17	12/24/24	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	158
CS - 18	12/24/24	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	316
CS - 19	12/24/24	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	242
CS - 20	12/24/24	2	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	594
CS - 21 [†]	12/24/24	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	783
CS - 21	01/09/25	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	71.7
CS - 22 [†]	12/24/24	2	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	640
CS - 22	01/09/25	3	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	76.4
CS - 23	12/24/24	0.5	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	497
CS - 24 [†]	12/24/24	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	702
CS - 24	01/09/25	1.5	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	77.7
CS - 25	12/24/24	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	551
CS - 26 [†]	12/24/24	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	748
CS - 26	01/09/25	1.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	63.8
CS - 27	12/24/24	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	568
CS - 28	12/24/24	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	197
CS - 29	12/24/24	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	295
CS - 30	12/24/24	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	281
CS - 31	12/24/24	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	282
SW - 1	12/24/24	0-2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	184
SW - 2	12/24/24	0-2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	183
SW - 3	12/24/24	0-2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	164
SW - 4	12/24/24	0-2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	135

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

(Extension Approval) - Gaucho Booster Station - Extension Request - nAPP2430237976

From Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Date Tue 1/21/2025 10:16 AM

To Gilbert Moreno <gmoreno@earthsys.net>

Cc Raley, Jim <Jim.Raley@dmn.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

RE: Incident **#NAPP2430237976**

Gilbert,

Your request for a 90-day extension to **April 21st, 2025** is approved. Please 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: Tuesday, January 21, 2025 10:25 AM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] Gaucho Booster Station - Extension Request - nAPP2430237976

From: Gilbert Moreno <gmoreno@earthsys.net>

Sent: Monday, January 20, 2025 12:12 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Raley, Jim <Jim.Raley@dmn.com>

Subject: [EXTERNAL] Gaucho Booster Station - Extension Request - nAPP2430237976

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 WPX Energy Permian (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B(1) NMAC at the Gaucho Booster Station (Site).

A produced water release was discovered on October 25th, 2024, and was subsequently assigned Incident Number nAPP2430237976. During November and December 2024, ESRR completed delineation activities followed by oversight of excavation activities. Unfortunately, do to scheduling and recent weather events, remediation activities have taken longer than anticipated.

WPX requests an extension of the January 23rd, 2025, deadline for the release associated with Incident Number nAPP2430237976, to allow additional time for final restoration activities and for ESRR to complete a subsequent corrective action closure report.

Thanks,

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



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 417677

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 417677
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2430237976
Incident Name	NAPP2430237976 GAUCHO BOOSTER STATION @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Gaucha Booster Station
Date Release Discovered	10/25/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,600
What is the estimated number of samples that will be gathered	8
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/09/2025
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	From the intersection of HWY 128 & Delaware Basin Rd, head N on Delaware Basin Rd. 6.58 mi., Turn left at cattle guard- head W 0.02 mi., Turn right on lease road- head N 0.32 mi., Stay straight and continue N 0.08 mi to location.

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 417677

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 417677
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/7/2025

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 413429

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413429
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2430237976
Incident Name	NAPP2430237976 GAUCHO BOOSTER STATION @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Gaucha Booster Station
Date Release Discovered	10/25/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,959
What is the estimated number of samples that will be gathered	40
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/24/2024
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	From the intersection of HWY 128 & Delaware Basin Rd, head N on Delaware Basin Rd. 6.58 mi., Turn left at cattle guard- head W 0.02 mi., Turn right on lease road- head N 0.32 mi., Stay straight and continue N 0.08 mi to location.

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

CONDITIONS

Action 413429

CONDITIONS

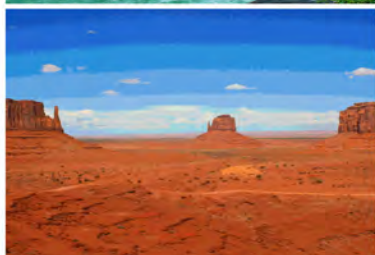
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413429
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/18/2024

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Earth Systems

Project Name: Gaucho Booster

Work Order: E411067

Job Number: 01058-0007

Received: 11/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/18/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/18/24

Gilbert Moreno
1910 Resource Ct
Carlsbad, NM 88220



Project Name: Gaucho Booster
Workorder: E411067
Date Received: 11/7/2024 7:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2024 7:30:00AM, under the Project Name: Gaucho Booster.

The analytical test results summarized in this report with the Project Name: Gaucho Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Earth Systems	Project Name:	Gaicho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/24 13:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH-1 0.5	E411067-01A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-1 1	E411067-02A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-1 2	E411067-03A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-1 3	E411067-04A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-1 4	E411067-05A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-2 0.5	E411067-06A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-2 1	E411067-07A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-2 2	E411067-08A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-2 3	E411067-09A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-2 4	E411067-10A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-3 0.5	E411067-11A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-3 1	E411067-12A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-3 2	E411067-13A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-3 3	E411067-14A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-3 4	E411067-15A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-4 0.5	E411067-16A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-4 1	E411067-17A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-4 2	E411067-18A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-4 3	E411067-19A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-4 4	E411067-20A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-5 0.5	E411067-21A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-5 1	E411067-22A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-5 2	E411067-23A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-5 3	E411067-24A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-5 3.5R	E411067-25A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-6 0.5	E411067-26A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-6 1	E411067-27A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-6 2	E411067-28A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-6 3	E411067-29A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-6 4	E411067-30A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-7 0.5	E411067-31A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-7 1	E411067-32A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-7 2	E411067-33A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-7 3	E411067-34A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-7 4	E411067-35A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-8 0.5	E411067-36A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-8 1	E411067-37A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-8 2	E411067-38A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-8 3	E411067-39A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-8 4	E411067-40A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.



Sample Summary

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaicho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/24 13:51
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH-9 0.5	E411067-41A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-9 1	E411067-42A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-9 2	E411067-43A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-9 3	E411067-44A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-9 4	E411067-45A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-10 0.5	E411067-46A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-10 1	E411067-47A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-10 2	E411067-48A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-10 3	E411067-49A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-10 4	E411067-50A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-1 0.5

E411067-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/14/24	
Toluene	ND	0.0250	1	11/07/24	11/14/24	
o-Xylene	ND	0.0250	1	11/07/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/14/24	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	11/07/24	11/14/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.4 %	70-130	11/07/24	11/14/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/14/24	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	11/07/24	11/14/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.4 %	70-130	11/07/24	11/14/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/08/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	11/08/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	213	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-1 1

E411067-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/14/24	
Toluene	ND	0.0250	1	11/07/24	11/14/24	
o-Xylene	ND	0.0250	1	11/07/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		101 %	50-200	11/08/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	34.7	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-1 2

E411067-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/14/24	
Toluene	ND	0.0250	1	11/07/24	11/14/24	
o-Xylene	ND	0.0250	1	11/07/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		105 %	50-200	11/08/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	54.3	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-1 3

E411067-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/14/24	
Toluene	ND	0.0250	1	11/07/24	11/14/24	
o-Xylene	ND	0.0250	1	11/07/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		99.2 %	50-200	11/08/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	182	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-1 4

E411067-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/14/24	
Toluene	ND	0.0250	1	11/07/24	11/14/24	
o-Xylene	ND	0.0250	1	11/07/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		101 %	50-200	11/08/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	36.8	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-2 0.5

E411067-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/14/24	
Toluene	ND	0.0250	1	11/07/24	11/14/24	
o-Xylene	ND	0.0250	1	11/07/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		102 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		102 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/08/24	
Surrogate: n-Nonane		103 %	50-200	11/08/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	3350	40.0	2	11/09/24	11/10/24	



Sample Data

Earth Systems	Project Name:	Gaucho Booster	Reported: 11/18/2024 1:51:14PM
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH-2 1
E411067-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2445112	
Benzene	ND	0.0250	1	11/07/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/14/24	
Toluene	ND	0.0250	1	11/07/24	11/14/24	
o-Xylene	ND	0.0250	1	11/07/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		102 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		107 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2445112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		102 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		107 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2445145	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		97.4 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2445150	
Chloride	830	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-2 2

E411067-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/14/24	
Toluene	ND	0.0250	1	11/07/24	11/14/24	
o-Xylene	ND	0.0250	1	11/07/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		103 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	104	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-2 3

E411067-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/14/24	
Toluene	ND	0.0250	1	11/07/24	11/14/24	
o-Xylene	ND	0.0250	1	11/07/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/14/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/14/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	11/07/24	11/14/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		102 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	38.1	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

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E411067-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/15/24	
Toluene	ND	0.0250	1	11/07/24	11/15/24	
o-Xylene	ND	0.0250	1	11/07/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		99.4 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	23.9	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems	Project Name:	Gaucha Booster	Reported: 11/18/2024 1:51:14PM
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH-3 0.5

E411067-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445112	
Benzene	ND	0.0250	1	11/07/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/15/24	
Toluene	ND	0.0250	1	11/07/24	11/15/24	
o-Xylene	ND	0.0250	1	11/07/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445145	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		100 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445150	
Chloride	2690	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-3 1

E411067-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/15/24	
Toluene	ND	0.0250	1	11/07/24	11/15/24	
o-Xylene	ND	0.0250	1	11/07/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		103 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		103 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		101 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	37.9	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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E411067-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445112	
Benzene	ND	0.0250	1	11/07/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/15/24	
Toluene	ND	0.0250	1	11/07/24	11/15/24	
o-Xylene	ND	0.0250	1	11/07/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene	106 %	70-130		11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		11/07/24	11/15/24	
Surrogate: Toluene-d8	106 %	70-130		11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene	106 %	70-130		11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		11/07/24	11/15/24	
Surrogate: Toluene-d8	106 %	70-130		11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445145	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane	103 %	50-200		11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445150	
Chloride	59.3	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

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E411067-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/15/24	
Toluene	ND	0.0250	1	11/07/24	11/15/24	
o-Xylene	ND	0.0250	1	11/07/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		102 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	26.5	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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E411067-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445112	
Benzene	ND	0.0250	1	11/07/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/15/24	
Toluene	ND	0.0250	1	11/07/24	11/15/24	
o-Xylene	ND	0.0250	1	11/07/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene	102 %	70-130		11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		11/07/24	11/15/24	
Surrogate: Toluene-d8	105 %	70-130		11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene	102 %	70-130		11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		11/07/24	11/15/24	
Surrogate: Toluene-d8	105 %	70-130		11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445145	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane	104 %	50-200		11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445150	
Chloride	45.7	20.0	1	11/09/24	11/10/24	

Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-4 0.5

E411067-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/15/24	
Toluene	ND	0.0250	1	11/07/24	11/15/24	
o-Xylene	ND	0.0250	1	11/07/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		98.7 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	496	20.0	1	11/09/24	11/10/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-4 1

E411067-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/15/24	
Toluene	ND	0.0250	1	11/07/24	11/15/24	
o-Xylene	ND	0.0250	1	11/07/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		100 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		100 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		105 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		105 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	251	20.0	1	11/09/24	11/11/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

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E411067-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/15/24	
Toluene	ND	0.0250	1	11/07/24	11/15/24	
o-Xylene	ND	0.0250	1	11/07/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		104 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		104 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		104 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	493	20.0	1	11/09/24	11/11/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

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E411067-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/15/24	
Toluene	ND	0.0250	1	11/07/24	11/15/24	
o-Xylene	ND	0.0250	1	11/07/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		102 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		107 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		102 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		107 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		101 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	535	20.0	1	11/09/24	11/11/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

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E411067-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Benzene	ND	0.0250	1	11/07/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/15/24	
Toluene	ND	0.0250	1	11/07/24	11/15/24	
o-Xylene	ND	0.0250	1	11/07/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445112
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/15/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/07/24	11/15/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	11/07/24	11/15/24	
Surrogate: Toluene-d8		106 %	70-130	11/07/24	11/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445145
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		105 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445150
Chloride	327	20.0	1	11/09/24	11/11/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-5 0.5

E411067-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Benzene	ND	0.0250	1	11/08/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/11/24	
Toluene	ND	0.0250	1	11/08/24	11/11/24	
o-Xylene	ND	0.0250	1	11/08/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/11/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/08/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	11/08/24	11/11/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/11/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/08/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	11/08/24	11/11/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		100 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446025	
Chloride	ND	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-5 1

E411067-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		105 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	ND	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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E411067-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		105 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		105 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		107 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	ND	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

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E411067-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		98.9 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	ND	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems	Project Name:	Gaicho Booster	Reported: 11/18/2024 1:51:14PM
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH-5 3.5R
E411067-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		96.8 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446025	
Chloride	20.5	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-6 0.5

E411067-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		98.4 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446025	
Chloride	1170	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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E411067-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		105 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		105 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		101 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	631	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

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E411067-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		99.6 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	594	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

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E411067-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		98.5 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	583	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems	Project Name:	Gaucho Booster	Reported: 11/18/2024 1:51:14PM
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH-6 4
E411067-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		101 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446025	
Chloride	466	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-7 0.5

E411067-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene	106 %	70-130		11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		11/08/24	11/12/24	
Surrogate: Toluene-d8	108 %	70-130		11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene	106 %	70-130		11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		11/08/24	11/12/24	
Surrogate: Toluene-d8	108 %	70-130		11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane	93.6 %	50-200		11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446025	
Chloride	2460	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems	Project Name:	Gaucho Booster	Reported: 11/18/2024 1:51:14PM
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH-7 1

E411067-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		105 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		105 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		98.5 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	1430	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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E411067-33

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene	105 %	70-130		11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		11/08/24	11/12/24	
Surrogate: Toluene-d8	105 %	70-130		11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene	105 %	70-130		11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		11/08/24	11/12/24	
Surrogate: Toluene-d8	105 %	70-130		11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane	97.6 %	50-200		11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446025	
Chloride	42.7	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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E411067-34

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		107 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		99.2 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	ND	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

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E411067-35

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		99.4 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	24.9	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-8 0.5

E411067-36

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene	103 %	70-130		11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		11/08/24	11/12/24	
Surrogate: Toluene-d8	105 %	70-130		11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene	103 %	70-130		11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		11/08/24	11/12/24	
Surrogate: Toluene-d8	105 %	70-130		11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane	99.9 %	50-200		11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446025	
Chloride	534	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-8 1

E411067-37

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		96.7 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	112	20.0	1	11/11/24	11/11/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-8 2
E411067-38

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		100 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	189	20.0	1	11/11/24	11/12/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-8 3
E411067-39

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445132
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445146
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		97.6 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446025
Chloride	203	20.0	1	11/11/24	11/12/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-8 4
E411067-40

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		105 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		105 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445146	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/24	11/09/24	
Surrogate: n-Nonane		95.0 %	50-200	11/08/24	11/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446025	
Chloride	195	20.0	1	11/11/24	11/12/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-9 0.5

E411067-41

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		105 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		106 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		105 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2446005
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		98.9 %	50-200	11/11/24	11/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446028
Chloride	2430	40.0	2	11/11/24	11/15/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-9 1
E411067-42

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2446005
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		101 %	50-200	11/11/24	11/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446028
Chloride	576	20.0	1	11/11/24	11/15/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-9 2
E411067-43

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2446005
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		99.1 %	50-200	11/11/24	11/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446028
Chloride	561	20.0	1	11/11/24	11/15/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-9 3
E411067-44

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445133	
Benzene	ND	0.0250	1	11/08/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/12/24	
Toluene	ND	0.0250	1	11/08/24	11/12/24	
o-Xylene	ND	0.0250	1	11/08/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445133	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/12/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/12/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	11/08/24	11/12/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2446005	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		96.3 %	50-200	11/11/24	11/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446028	
Chloride	437	20.0	1	11/11/24	11/15/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-9 4
E411067-45

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445133	
Benzene	ND	0.0250	1	11/08/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/13/24	
Toluene	ND	0.0250	1	11/08/24	11/13/24	
o-Xylene	ND	0.0250	1	11/08/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	11/08/24	11/13/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445133	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	11/08/24	11/13/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2446005	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		97.8 %	50-200	11/11/24	11/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446028	
Chloride	306	20.0	1	11/11/24	11/15/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-10 0.5

E411067-46

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Benzene	ND	0.0250	1	11/08/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/13/24	
Toluene	ND	0.0250	1	11/08/24	11/13/24	
o-Xylene	ND	0.0250	1	11/08/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	11/08/24	11/13/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	11/08/24	11/13/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2446005
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		102 %	50-200	11/11/24	11/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446028
Chloride	61.3	20.0	1	11/11/24	11/15/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-10 1

E411067-47

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445133	
Benzene	ND	0.0250	1	11/08/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/13/24	
Toluene	ND	0.0250	1	11/08/24	11/13/24	
o-Xylene	ND	0.0250	1	11/08/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	11/08/24	11/13/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445133	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene		104 %	70-130	11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	11/08/24	11/13/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2446005	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		101 %	50-200	11/11/24	11/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446028	
Chloride	26.7	20.0	1	11/11/24	11/15/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-10 2

E411067-48

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Benzene	ND	0.0250	1	11/08/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/13/24	
Toluene	ND	0.0250	1	11/08/24	11/13/24	
o-Xylene	ND	0.0250	1	11/08/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	11/08/24	11/13/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	11/08/24	11/13/24	
Surrogate: Toluene-d8		106 %	70-130	11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2446005
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		100 %	50-200	11/11/24	11/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446028
Chloride	ND	20.0	1	11/11/24	11/15/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/18/2024 1:51:14PM

BH-10 3

E411067-49

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Benzene	ND	0.0250	1	11/08/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/13/24	
Toluene	ND	0.0250	1	11/08/24	11/13/24	
o-Xylene	ND	0.0250	1	11/08/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	11/08/24	11/13/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445133
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene		105 %	70-130	11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	11/08/24	11/13/24	
Surrogate: Toluene-d8		107 %	70-130	11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2446005
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		107 %	50-200	11/11/24	11/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2446028
Chloride	70.4	20.0	1	11/11/24	11/15/24	



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/18/2024 1:51:14PM
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BH-10 4

E411067-50

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445133	
Benzene	ND	0.0250	1	11/08/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/08/24	11/13/24	
Toluene	ND	0.0250	1	11/08/24	11/13/24	
o-Xylene	ND	0.0250	1	11/08/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/08/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene	106 %	70-130		11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		11/08/24	11/13/24	
Surrogate: Toluene-d8	105 %	70-130		11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445133	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/24	11/13/24	
Surrogate: Bromofluorobenzene	106 %	70-130		11/08/24	11/13/24	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		11/08/24	11/13/24	
Surrogate: Toluene-d8	105 %	70-130		11/08/24	11/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2446005	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/13/24	
Surrogate: n-Nonane	97.9 %	50-200		11/11/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2446028	
Chloride	25.9	20.0	1	11/11/24	11/15/24	



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2445112-BLK1) Prepared: 11/07/24 Analyzed: 11/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2445112-BS1) Prepared: 11/07/24 Analyzed: 11/14/24

Benzene	2.40	0.0250	2.50		95.8	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.7	70-130			
Toluene	2.44	0.0250	2.50		97.6	70-130			
o-Xylene	2.39	0.0250	2.50		95.7	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.3	70-130			
Total Xylenes	7.16	0.0250	7.50		95.4	70-130			
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

LCS Dup (2445112-BSD1) Prepared: 11/07/24 Analyzed: 11/14/24

Benzene	2.45	0.0250	2.50		97.9	70-130	2.13	23	
Ethylbenzene	2.42	0.0250	2.50		97.0	70-130	2.40	27	
Toluene	2.48	0.0250	2.50		99.0	70-130	1.47	24	
o-Xylene	2.56	0.0250	2.50		102	70-130	6.77	27	
p,m-Xylene	5.04	0.0500	5.00		101	70-130	5.65	27	
Total Xylenes	7.60	0.0250	7.50		101	70-130	6.02	27	
Surrogate: Bromofluorobenzene	0.543		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

Earth Systems	Project Name:	Gaicho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2445132-BLK1)

Prepared: 11/08/24 Analyzed: 11/12/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

LCS (2445132-BS1)

Prepared: 11/08/24 Analyzed: 11/12/24

Benzene	2.52	0.0250	2.50		101	70-130			
Ethylbenzene	2.50	0.0250	2.50		100	70-130			
Toluene	2.54	0.0250	2.50		102	70-130			
o-Xylene	2.55	0.0250	2.50		102	70-130			
p,m-Xylene	5.08	0.0500	5.00		102	70-130			
Total Xylenes	7.63	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS Dup (2445132-BSD1)

Prepared: 11/08/24 Analyzed: 11/12/24

Benzene	2.59	0.0250	2.50		104	70-130	2.78	23	
Ethylbenzene	2.57	0.0250	2.50		103	70-130	2.57	27	
Toluene	2.62	0.0250	2.50		105	70-130	3.22	24	
o-Xylene	2.62	0.0250	2.50		105	70-130	3.06	27	
p,m-Xylene	5.26	0.0500	5.00		105	70-130	3.38	27	
Total Xylenes	7.88	0.0250	7.50		105	70-130	3.28	27	
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			



QC Summary Data

Earth Systems	Project Name:	Gaicho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2445133-BLK1) Prepared: 11/08/24 Analyzed: 11/12/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS (2445133-BS1) Prepared: 11/08/24 Analyzed: 11/12/24

Benzene	2.19	0.0250	2.50		87.6	70-130			
Ethylbenzene	2.20	0.0250	2.50		87.8	70-130			
Toluene	2.22	0.0250	2.50		88.9	70-130			
o-Xylene	2.33	0.0250	2.50		93.1	70-130			
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130			
Total Xylenes	6.90	0.0250	7.50		91.9	70-130			
Surrogate: Bromofluorobenzene	0.550		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS Dup (2445133-BSD1) Prepared: 11/08/24 Analyzed: 11/12/24

Benzene	2.26	0.0250	2.50		90.4	70-130	3.14	23	
Ethylbenzene	2.26	0.0250	2.50		90.5	70-130	3.03	27	
Toluene	2.29	0.0250	2.50		91.5	70-130	2.90	24	
o-Xylene	2.33	0.0250	2.50		93.1	70-130	0.0430	27	
p,m-Xylene	4.61	0.0500	5.00		92.3	70-130	1.01	27	
Total Xylenes	6.94	0.0250	7.50		92.6	70-130	0.658	27	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445112-BLK1) Prepared: 11/07/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2445112-BS2) Prepared: 11/07/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0		80.8	70-130			
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		92.0	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS Dup (2445112-BSD2) Prepared: 11/07/24 Analyzed: 11/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.7	70-130	5.80	20	
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445132-BLK1) Prepared: 11/08/24 Analyzed: 11/12/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

LCS (2445132-BS2) Prepared: 11/08/24 Analyzed: 11/12/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.7	70-130			
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS Dup (2445132-BSD2) Prepared: 11/08/24 Analyzed: 11/12/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0		91.2	70-130	6.86	20	
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.2	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445133-BLK1) Prepared: 11/08/24 Analyzed: 11/12/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

LCS (2445133-BS2) Prepared: 11/08/24 Analyzed: 11/13/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.2	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

LCS Dup (2445133-BSD2) Prepared: 11/08/24 Analyzed: 11/12/24

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.2	70-130	1.19	20	
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445145-BLK1)					Prepared: 11/08/24 Analyzed: 11/08/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			

LCS (2445145-BS1)					Prepared: 11/08/24 Analyzed: 11/08/24				
Diesel Range Organics (C10-C28)	232	25.0	250		92.9	38-132			
Surrogate: n-Nonane	48.2		50.0		96.5	50-200			

Matrix Spike (2445145-MS1)					Source: E411067-05		Prepared: 11/08/24 Analyzed: 11/08/24		
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			

Matrix Spike Dup (2445145-MSD1)					Source: E411067-05		Prepared: 11/08/24 Analyzed: 11/08/24		
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	1.63	20	
Surrogate: n-Nonane	52.8		50.0		106	50-200			



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445146-BLK1)					Prepared: 11/08/24 Analyzed: 11/09/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.6		50.0		101	50-200			

LCS (2445146-BS1)					Prepared: 11/08/24 Analyzed: 11/09/24				
Diesel Range Organics (C10-C28)	240	25.0	250		96.2	38-132			
Surrogate: n-Nonane	49.7		50.0		99.4	50-200			

Matrix Spike (2445146-MS1)					Source: E411067-32		Prepared: 11/08/24 Analyzed: 11/09/24		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			

Matrix Spike Dup (2445146-MSD1)					Source: E411067-32		Prepared: 11/08/24 Analyzed: 11/09/24		
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.5	38-132	5.32	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			



QC Summary Data

Earth Systems	Project Name:	Gaucha Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2446005-BLK1)					Prepared: 11/11/24 Analyzed: 11/12/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.5		50.0		88.9	50-200			

LCS (2446005-BS1)					Prepared: 11/11/24 Analyzed: 11/12/24				
Diesel Range Organics (C10-C28)	228	25.0	250		91.1	38-132			
Surrogate: n-Nonane	48.0		50.0		96.1	50-200			

LCS Dup (2446005-BSD1)					Prepared: 11/11/24 Analyzed: 11/12/24				
Diesel Range Organics (C10-C28)	232	25.0	250		92.8	38-132	1.86	20	
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445150-BLK1)					Prepared: 11/09/24 Analyzed: 11/10/24				
Chloride	ND	20.0							
LCS (2445150-BS1)					Prepared: 11/09/24 Analyzed: 11/10/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2445150-MS1)					Source: E411067-07		Prepared: 11/09/24 Analyzed: 11/10/24		
Chloride	1090	20.0	250	830	104	80-120			
Matrix Spike Dup (2445150-MSD1)					Source: E411067-07		Prepared: 11/09/24 Analyzed: 11/10/24		
Chloride	1130	20.0	250	830	119	80-120	3.42	20	



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2446025-BLK1)					Prepared: 11/11/24 Analyzed: 11/11/24				
Chloride	ND	20.0							
LCS (2446025-BS1)					Prepared: 11/11/24 Analyzed: 11/11/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2446025-MS1)					Source: E411067-27		Prepared: 11/11/24 Analyzed: 11/11/24		
Chloride	884	20.0	250	631	101	80-120			
Matrix Spike Dup (2446025-MSD1)					Source: E411067-27		Prepared: 11/11/24 Analyzed: 11/11/24		
Chloride	878	20.0	250	631	98.6	80-120	0.647	20	



QC Summary Data

Earth Systems	Project Name:	Gaicho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/2024 1:51:14PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2446028-BLK1)					Prepared: 11/11/24 Analyzed: 11/15/24				
Chloride	ND	20.0							
LCS (2446028-BS1)					Prepared: 11/11/24 Analyzed: 11/15/24				
Chloride	257	20.0	250		103	90-110			
LCS Dup (2446028-BSD1)					Prepared: 11/11/24 Analyzed: 11/15/24				
Chloride	257	20.0	250		103	90-110	0.164	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Earth Systems	Project Name:	Gaucho Booster	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/18/24 13:51

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Page 1 of 5

Client Information				Invoice Information		Lab Use Only		TAT		State									
Client: Earth Systems R & R				Company: WPX Energy Permian		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX				
Project Name: Gaucho Booster				Address: 5315 Buena Vista Dr		E411667	01058-0007				X	X							
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220															
Address: 1910 Resource Ct				Phone:															
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com															
Phone: 832-541-7719				WO: TBD															
Email: gmoreno@earthsys.net																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/GRO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
8:00	11/5/2024	S	1	BH-1		1		0.5				X							
8:10	11/5/2024	S	1	BH-1		2		1				X							
8:20	11/5/2024	S	1	BH-1		3		2				X							
8:30	11/5/2024	S	1	BH-1		4		3				X							
8:40	11/5/2024	S	1	BH-1		5		4				X							
8:50	11/5/2024	S	1	BH-2		6		0.5				X							
9:00	11/5/2024	S	1	BH-2		7		1				X							
9:10	11/5/2024	S	1	BH-2		8		2				X							
9:20	11/5/2024	S	1	BH-2		9		3				X							
9:30	11/5/2024	S	1	BH-2		10		4				X							
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: GM																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: ☒ Y ☐ N T1 _____ T2 _____ T3 _____ AVG Temp °C 4											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



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Chain of Custody

Client Information				Invoice Information		Lab Use Only				TAT				State					
Client: Earth Systems R & R				Company: WPX Energy Permian		Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: Gaucho Booster				Address: 5315 Buena Vista Dr		E411067		01058-0007					X	X					
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220															
Address: 1910 Resource Ct				Phone:															
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvni.com															
Phone: 832-541-7719				WO: TBD															
Email: gmoreno@earthsys.net																			
Sample Information										Analysis and Method				EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	RCRA 24 HRTAT	SDWA	CWA	RCRA
9:40	11/5/2024	S	1	BH-3		11		0.5				X							
9:50	11/5/2024	S	1	BH-3		12		1				X							
10:00	11/5/2024	S	1	BH-3		13		2				X							
10:10	11/5/2024	S	1	BH-3		14		3				X							
10:20	11/5/2024	S	1	BH-3		15		4				X							
10:30	11/5/2024	S	1	BH-4		16		0.5				X							
10:40	11/5/2024	S	1	BH-4		17		1				X							
10:50	11/5/2024	S	1	BH-4		18		2				X							
11:00	11/5/2024	S	1	BH-4		19		3				X							
11:10	11/5/2024	S	1	BH-4		20		4				X							
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: _____ GM																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>01 N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, A - Aqueous, O - Other _____										Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, v - VOA _____									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Chain of Custody

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E411067 CM 11.7.24

Client Information				Invoice Information		Lab Use Only		TAT		State									
Client: Earth Systems R & R				Company: WPX Energy Permian		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX				
Project Name: Gaucho Booster				Address: 5315 Buena Vista Dr		E411067	01058-0007				X	X							
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220															
Address: 1910 Resource Ct				Phone:															
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dv.com															
Phone: 832-541-7719				WO: TBD															
Email: gmoreno@earthsys.net																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 390.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
11:20	11/5/2024	S	1	BH-5		21		0.5				X							
11:30	11/5/2024	S	1	BH-5		22		1				X							
11:40	11/5/2024	S	1	BH-5		23		2				X							
11:50	11/5/2024	S	1	BH-5		24		3				X							
12:00	11/5/2024	S	1	BH-5		25		3.5R				X							
12:10	11/5/2024	S	1	BH-6		26		0.5				X							
12:20	11/5/2024	S	1	BH-6		27		1				X							
12:30	11/5/2024	S	1	BH-6		28		2				X							
12:40	11/5/2024	S	1	BH-6		29		3				X							
12:50	11/5/2024	S	1	BH-6		30		4				X							
Additional Instructions: <u>30 CM</u>																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: <u>GM</u>																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>0</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.																			



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Chain of Custody

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E411067 CM 11.7.24

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Earth Systems R & R				Company: WPX Energy Permian		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Gaucho Booster				Address: 5315 Buena Vista Dr		E411067	01058.007				X	X						
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220														
Address: 1910 Resource Ct				Phone:														
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dv.com														
Phone: 832-541-7719				WO: TBD														
Email: gmoreno@earthsys.net																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pig	SDWA	CWA	RCRA
13:00	11/5/2024	S	1	BH-7	31	11		0.5				X						
13:10	11/5/2024	S	1	BH-7	32	12		1				X						
13:20	11/5/2024	S	1	BH-7	33	13		2				X						
13:30	11/5/2024	S	1	BH-7	34	14		3				X						
13:40	11/5/2024	S	1	BH-7	35	15		4				X						
13:50	11/5/2024	S	1	BH-8	36	16		0.5				X						
14:00	11/5/2024	S	1	BH-8	37	17		1				X						
14:10	11/5/2024	S	1	BH-8	38	18		2				X						
14:20	11/5/2024	S	1	BH-8	39	19		3				X						
14:30	11/5/2024	S	1	BH-8	40	20		4				X						
Additional Instructions: CM																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: GM																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: ☒ N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
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Chain of Custody

E411067 CM 11-7-24

Client Information				Invoice Information		Lab Use Only		TAT		State									
Client: Earth Systems R & R				Company: WPX Energy Permian		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX				
Project Name: Gaucho Booster				Address: 5315 Buena Vista Dr		E411067	01058-0007				X	X							
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220															
Address: 1910 Resource Ct				Phone:															
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@divn.com															
Phone: 832-541-7719				WO: TBD															
Email: gmoreno@earthsys.net																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA	
14:40	11/5/2024	S	1	BH-9	41	21		0.5				X							
14:50	11/5/2024	S	1	BH-9	42	22		1				X							
15:00	11/5/2024	S	1	BH-9	43	23		2				X							
15:10	11/5/2024	S	1	BH-9	44	24		3				X							
15:20	11/5/2024	S	1	BH-9	45	25		4				X							
15:30	11/5/2024	S	1	BH-10	46	26		0.5				X							
15:40	11/5/2024	S	1	BH-10	47	27		1				X							
15:50	11/5/2024	S	1	BH-10	48	28		2				X							
16:00	11/5/2024	S	1	BH-10	49	29		3				X							
16:10	11/5/2024	S	1	BH-10	50	30		4				X							
Additional Instructions:						CM													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: GM																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: ☒ Y ☐ N T1 _____ T2 _____ T3 _____ AVG Temp °C 4											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Envirotech Analytical Laboratory

Printed: 11/7/2024 10:38:39AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Earth Systems	Date Received:	11/07/24 07:30	Work Order ID:	E411067
Phone:	832-541-7719	Date Logged In:	11/06/24 15:19	Logged In By:	Caitlin Mars
Email:	gmoreno@earthsys.net	Due Date:	11/15/24 17:00 (6 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

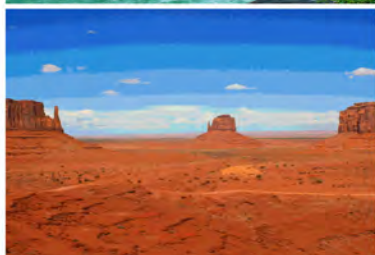
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Earth Systems

Project Name: Gaucho Booster

Work Order: E411063

Job Number: 01058-0007

Received: 11/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/15/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/15/24

Gilbert Moreno
1910 Resource Ct
Carlsbad, NM 88220



Project Name: Gaucho Booster
Workorder: E411063
Date Received: 11/7/2024 7:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2024 7:30:00AM, under the Project Name: Gaucho Booster.

The analytical test results summarized in this report with the Project Name: Gaucho Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Earth Systems	Project Name:	Gaicho Booster	Reported: 11/15/24 09:52
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH-11 0.5	E411063-01A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-11 1	E411063-02A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-12 0.5	E411063-03A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-12 1	E411063-04A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-12 2	E411063-05A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-13 0.5	E411063-06A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-13 1	E411063-07A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-13 2	E411063-08A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-14 0.5	E411063-09A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-14 1	E411063-10A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-14 2	E411063-11A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-15 0.5	E411063-12A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH-15 1	E411063-13A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.



Sample Data

Earth Systems 1910 Resource Ct Carlsbad NM, 88220	Project Name: Gaucho Booster Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 11/15/2024 9:52:10AM
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BH-11 0.5

E411063-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	88.9 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	88.9 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane	116 %	50-200		11/07/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	ND	20.0	1	11/08/24	11/09/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/15/2024 9:52:10AM

BH-11 1

E411063-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene		124 %	70-130	11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/07/24	11/11/24	
Surrogate: Toluene-d8		95.5 %	70-130	11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene		124 %	70-130	11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/07/24	11/11/24	
Surrogate: Toluene-d8		95.5 %	70-130	11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		108 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	ND	20.0	1	11/08/24	11/09/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/15/2024 9:52:10AM

BH-12 0.5

E411063-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	104 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	104 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane	108 %	50-200		11/07/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	ND	20.0	1	11/08/24	11/09/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/15/2024 9:52:10AM

BH-12 1

E411063-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	98.5 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	104 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	98.5 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	104 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane	112 %	50-200		11/07/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	ND	20.0	1	11/08/24	11/09/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/15/2024 9:52:10AM

BH-12 2

E411063-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4		78.0 %	70-130	11/07/24	11/11/24	
Surrogate: Toluene-d8		103 %	70-130	11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4		78.0 %	70-130	11/07/24	11/11/24	
Surrogate: Toluene-d8		103 %	70-130	11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		115 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	ND	20.0	1	11/08/24	11/09/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/15/2024 9:52:10AM

BH-13 0.5

E411063-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene		101 %	70-130	11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	11/07/24	11/11/24	
Surrogate: Toluene-d8		121 %	70-130	11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene		101 %	70-130	11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	11/07/24	11/11/24	
Surrogate: Toluene-d8		121 %	70-130	11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		107 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	ND	20.0	1	11/08/24	11/08/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/15/2024 9:52:10AM

BH-13 1

E411063-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	11/07/24	11/11/24	
Surrogate: Toluene-d8		103 %	70-130	11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene		102 %	70-130	11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	11/07/24	11/11/24	
Surrogate: Toluene-d8		103 %	70-130	11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		104 %	50-200	11/07/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	ND	20.0	1	11/08/24	11/09/24	



Sample Data

Earth Systems	Project Name:	Gaucho Booster	Reported: 11/15/2024 9:52:10AM
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH-13 2

E411063-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445111	
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	104 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2445111	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	104 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2445105	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane	112 %	50-200		11/07/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2445137	
Chloride	ND	20.0	1	11/08/24	11/09/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/15/2024 9:52:10AM

BH-14 0.5

E411063-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	105 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	105 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane	114 %	50-200		11/07/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	104	20.0	1	11/08/24	11/09/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/15/2024 9:52:10AM

BH-14 1

E411063-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	105 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	105 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane	103 %	50-200		11/07/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	284	20.0	1	11/08/24	11/09/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/15/2024 9:52:10AM

BH-14 2

E411063-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	102 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	102 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane	108 %	50-200		11/07/24	11/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	50.9	20.0	1	11/08/24	11/09/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/15/2024 9:52:10AM

BH-15 0.5

E411063-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	104 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	104 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/13/24	
Surrogate: n-Nonane	105 %	50-200		11/07/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	65.0	20.0	1	11/08/24	11/09/24	



Sample Data

Earth Systems
1910 Resource Ct
Carlsbad NM, 88220

Project Name: Gaucho Booster
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/15/2024 9:52:10AM

BH-15 1

E411063-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	103 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		11/07/24	11/11/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		11/07/24	11/11/24	
Surrogate: Toluene-d8	103 %	70-130		11/07/24	11/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/13/24	
Surrogate: n-Nonane	110 %	50-200		11/07/24	11/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2445137
Chloride	39.9	20.0	1	11/08/24	11/09/24	



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/15/2024 9:52:10AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2445111-BLK1) Prepared: 11/07/24 Analyzed: 11/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2445111-BS1) Prepared: 11/07/24 Analyzed: 11/11/24

Benzene	2.22	0.0250	2.50		88.9	70-130			
Ethylbenzene	2.44	0.0250	2.50		97.7	70-130			
Toluene	2.34	0.0250	2.50		93.8	70-130			
o-Xylene	2.45	0.0250	2.50		98.1	70-130			
p,m-Xylene	4.92	0.0500	5.00		98.4	70-130			
Total Xylenes	7.37	0.0250	7.50		98.3	70-130			
Surrogate: Bromofluorobenzene	0.477		0.500		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS Dup (2445111-BSD1) Prepared: 11/07/24 Analyzed: 11/11/24

Benzene	2.32	0.0250	2.50		92.9	70-130	4.36	23	
Ethylbenzene	2.56	0.0250	2.50		102	70-130	4.58	27	
Toluene	2.47	0.0250	2.50		98.9	70-130	5.38	24	
o-Xylene	2.59	0.0250	2.50		104	70-130	5.53	27	
p,m-Xylene	5.27	0.0500	5.00		105	70-130	6.95	27	
Total Xylenes	7.87	0.0250	7.50		105	70-130	6.48	27	
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/15/2024 9:52:10AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445111-BLK1) Prepared: 11/07/24 Analyzed: 11/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2445111-BS2) Prepared: 11/07/24 Analyzed: 11/11/24

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS Dup (2445111-BSD2) Prepared: 11/07/24 Analyzed: 11/11/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0		105	70-130	2.75	20	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/15/2024 9:52:10AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2445105-BLK1)					Prepared: 11/07/24 Analyzed: 11/08/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.4		50.0		111	50-200			

LCS (2445105-BS1)					Prepared: 11/07/24 Analyzed: 11/08/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS Dup (2445105-BSD1)					Prepared: 11/07/24 Analyzed: 11/08/24				
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132	3.06	20	
Surrogate: n-Nonane	53.9		50.0		108	50-200			



QC Summary Data

Earth Systems	Project Name:	Gaucho Booster	Reported:
1910 Resource Ct	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/15/2024 9:52:10AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2445137-BLK1)					Prepared: 11/08/24 Analyzed: 11/08/24				
Chloride	ND	20.0							
LCS (2445137-BS1)					Prepared: 11/08/24 Analyzed: 11/08/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2445137-MS1)					Source: E411063-06		Prepared: 11/08/24 Analyzed: 11/08/24		
Chloride	260	20.0	250	ND	104	80-120			
Matrix Spike Dup (2445137-MSD1)					Source: E411063-06		Prepared: 11/08/24 Analyzed: 11/09/24		
Chloride	261	20.0	250	ND	104	80-120	0.275	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Earth Systems	Project Name:	Gaucho Booster	
1910 Resource Ct	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/15/24 09:52

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only				TAT				State				
Client: Earth Systems R & R				Company: WPX Energy Permian		Lab WO# E411063		Job Number 010580007		1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: Gaucho Booster				Address: 5315 Buena Vista Dr									X	X				
Project Manager: Gilbert Moreno				City, State, Zip: Carlsbad, NM 88220														
Address: 1910 Resource Ct				Phone:														
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@divn.com														
Phone: 832-541-7719				WO: TBD														
Email: gmoreno@earthsys.net																		
Sample Information						Analysis and Method										EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	Depth (ft)	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Anion Pkg	SDWA	CWA	RCRA
16:15	11/5/2024	S	1	BH-11		1		0.5				X						
16:20	11/5/2024	S	1	BH-11		2		1				X						
16:25	11/5/2024	S	1	BH-12		3		0.5				X						
16:30	11/5/2024	S	1	BH-12		4		1				X						
16:35	11/5/2024	S	1	BH-12		5		2				X						
16:40	11/5/2024	S	1	BH-13		6		0.5				X						
16:45	11/5/2024	S	1	BH-13		7		1				X						
16:50	11/5/2024	S	1	BH-13		8		2				X						
16:55	11/5/2024	S	1	BH-14		9		0.5				X						
17:00	11/5/2024	S	1	BH-14		10		1				X						
Additional Instructions:																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: GM																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



envirotech



Envirotech Analytical Laboratory

Printed: 11/7/2024 9:24:24AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Earth Systems	Date Received:	11/07/24 07:30	Work Order ID:	E411063
Phone:	832-541-7719	Date Logged In:	11/06/24 15:06	Logged In By:	Caitlin Mars
Email:	gmoreno@earthsys.net	Due Date:	11/15/24 17:00 (6 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



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 1/3/2025 12:04:54 PM

JOB DESCRIPTION

GAUCHO BOOSTER STATION
2615

JOB NUMBER

890-7515-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



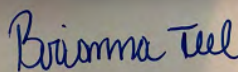
Eurofins Carlsbad

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
1/3/2025 12:04:54 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: GAUCHO BOOSTER STATION

Laboratory Job ID: 890-7515-1
SDG: 2615

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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Case Narrative

Client: Earth Systems Response and Restoration
Project: GAUCHO BOOSTER STATION

Job ID: 890-7515-1

Job ID: 890-7515-1

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Job Narrative 890-7515-1

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 12/26/2024 8:12 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 1 (890-7515-1), CS - 2 (890-7515-2), CS - 3 (890-7515-3), CS - 4 (890-7515-4), CS - 5 (890-7515-5), CS - 6 (890-7515-6), CS - 7 (890-7515-7), CS - 8 (890-7515-8), CS - 9 (890-7515-9), CS - 10 (890-7515-10), CS - 11 (890-7515-11), CS - 12 (890-7515-12), CS - 13 (890-7515-13), CS - 14 (890-7515-14), CS - 15 (890-7515-15), CS - 16 (890-7515-16), CS - 17 (890-7515-17), CS - 18 (890-7515-18), CS - 19 (890-7515-19), CS - 20 (890-7515-20), CS - 21 (890-7515-21), CS - 22 (890-7515-22), CS - 23 (890-7515-23), CS - 24 (890-7515-24), CS - 25 (890-7515-25), CS - 26 (890-7515-26), CS - 27 (890-7515-27), CS - 28 (890-7515-28), CS - 29 (890-7515-29), CS - 30 (890-7515-30) and CS - 31 (890-7515-31).

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-98916 and analytical batch 880-98926 was inadvertently misspiked during prep. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch laboratory control sample, matrix spike/matrix spike duplicate (LCS/MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-7515-A-1-A MS). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98915 and analytical batch 880-99020 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.

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98970 and analytical batch 880-99294 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS - 26 (890-7515-26), CS - 27 (890-7515-27) and CS - 28 (890-7515-28). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS - 6 (890-7515-6), (LCS 880-98968/2-A) and (LCSD 880-98968/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample and laboratory control sample duplicate (LCS/LCSD) associated with preparation batch 880-98968 and analytical batch 880-99128. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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Case Narrative

Client: Earth Systems Response and Restoration
Project: GAUCHO BOOSTER STATION

Job ID: 890-7515-1

Job ID: 890-7515-1 (Continued)

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Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-99294 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-99294/21).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98967 and analytical batch 880-99300 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-98967/2-A) and (LCSD 880-98967/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-98967 and analytical batch 880-99300 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 Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99155 and analytical batch 880-99159 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.

The associated samples are: CS - 1 (890-7515-1), CS - 2 (890-7515-2) and CS - 3 (890-7515-3).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99155 and analytical batch 880-99159 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.

The associated samples are: CS - 4 (890-7515-4), CS - 5 (890-7515-5), CS - 6 (890-7515-6), CS - 7 (890-7515-7), CS - 8 (890-7515-8), CS - 9 (890-7515-9), CS - 10 (890-7515-10), CS - 11 (890-7515-11), CS - 12 (890-7515-12), CS - 13 (890-7515-13), (890-7515-A-4-D MS) and (890-7515-A-4-E MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99078 and analytical batch 880-99088 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.

The associated samples are: CS - 14 (890-7515-14), CS - 15 (890-7515-15), CS - 16 (890-7515-16), CS - 17 (890-7515-17), CS - 18 (890-7515-18), CS - 19 (890-7515-19), CS - 20 (890-7515-20), CS - 21 (890-7515-21), CS - 22 (890-7515-22), CS - 23 (890-7515-23), (890-7515-A-14-D MS) and (890-7515-A-14-E MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99078 and analytical batch 880-99088 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.

The associated samples are: CS - 24 (890-7515-24), CS - 25 (890-7515-25), CS - 26 (890-7515-26), CS - 27 (890-7515-27), CS - 28 (890-7515-28), CS - 29 (890-7515-29), CS - 30 (890-7515-30), CS - 31 (890-7515-31), (890-7515-A-24-D MS) and (890-7515-A-24-E MSD).

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: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 1

Lab Sample ID: 890-7515-1

Date Collected: 12/24/24 08:30

Matrix: Solid

Date Received: 12/26/24 08:12

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 *- *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 11:54	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 11:54	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 11:54	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		12/27/24 09:33	12/27/24 11:54	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 11:54	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		12/27/24 09:33	12/27/24 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/27/24 09:33	12/27/24 11:54	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/27/24 09:33	12/27/24 11:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/24 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/03/25 01:41	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		12/27/24 14:25	01/03/25 01:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		12/27/24 14:25	01/03/25 01:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/27/24 14:25	01/03/25 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	12/27/24 14:25	01/03/25 01:41	1
o-Terphenyl	105		70 - 130	12/27/24 14:25	01/03/25 01:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	198		10.0		mg/Kg			12/31/24 19:39	1

Client Sample ID: CS - 2

Lab Sample ID: 890-7515-2

Date Collected: 12/24/24 08:35

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 12:15	1
Toluene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 12:15	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 12:15	1
m-Xylene & p-Xylene	<0.00404	U *- *1	0.00404		mg/Kg		12/27/24 09:33	12/27/24 12:15	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 12:15	1
Xylenes, Total	<0.00404	U *- *1	0.00404		mg/Kg		12/27/24 09:33	12/27/24 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/27/24 09:33	12/27/24 12:15	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 2

Lab Sample ID: 890-7515-2

Date Collected: 12/24/24 08:35

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	12/27/24 09:33	12/27/24 12:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/27/24 12:15	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			01/03/25 01:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:25	01/03/25 01:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		12/27/24 14:25	01/03/25 01:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:25	01/03/25 01:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				12/27/24 14:25	01/03/25 01:57	1
o-Terphenyl	111		70 - 130				12/27/24 14:25	01/03/25 01:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		10.1		mg/Kg			12/31/24 19:44	1

Client Sample ID: CS - 3

Lab Sample ID: 890-7515-3

Date Collected: 12/24/24 08:40

Matrix: Solid

Date Received: 12/26/24 08:12

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		12/27/24 09:33	12/27/24 12:36	1
Toluene	<0.00200	U * *	0.00200		mg/Kg		12/27/24 09:33	12/27/24 12:36	1
Ethylbenzene	<0.00200	U * *	0.00200		mg/Kg		12/27/24 09:33	12/27/24 12:36	1
m-Xylene & p-Xylene	<0.00401	U * *	0.00401		mg/Kg		12/27/24 09:33	12/27/24 12:36	1
o-Xylene	<0.00200	U * *	0.00200		mg/Kg		12/27/24 09:33	12/27/24 12:36	1
Xylenes, Total	<0.00401	U * *	0.00401		mg/Kg		12/27/24 09:33	12/27/24 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/27/24 09:33	12/27/24 12:36	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 09:33	12/27/24 12:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/27/24 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	<49.8	U	49.8		mg/Kg			01/03/25 02:13	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 3

Lab Sample ID: 890-7515-3

Date Collected: 12/24/24 08:40

Matrix: Solid

Date Received: 12/26/24 08:12

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	<49.8	U	49.8		mg/Kg		12/27/24 14:25	01/03/25 02:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		12/27/24 14:25	01/03/25 02:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:25	01/03/25 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				12/27/24 14:25	01/03/25 02:13	1
o-Terphenyl	99		70 - 130				12/27/24 14:25	01/03/25 02:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		9.98		mg/Kg			12/31/24 19:50	1

Client Sample ID: CS - 4

Lab Sample ID: 890-7515-4

Date Collected: 12/24/24 08:45

Matrix: Solid

Date Received: 12/26/24 08:12

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 * *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 12:56	1
Toluene	<0.00199	U * *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 12:56	1
Ethylbenzene	<0.00199	U * *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 12:56	1
m-Xylene & p-Xylene	<0.00398	U * *1	0.00398		mg/Kg		12/27/24 09:33	12/27/24 12:56	1
o-Xylene	<0.00199	U * *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 12:56	1
Xylenes, Total	<0.00398	U * *1	0.00398		mg/Kg		12/27/24 09:33	12/27/24 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/27/24 09:33	12/27/24 12:56	1
1,4-Difluorobenzene (Surr)	108		70 - 130				12/27/24 09:33	12/27/24 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			12/27/24 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	<49.8	U	49.8		mg/Kg			01/03/25 02:28	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	<49.8	U	49.8		mg/Kg		12/27/24 14:25	01/03/25 02:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		12/27/24 14:25	01/03/25 02:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:25	01/03/25 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				12/27/24 14:25	01/03/25 02:28	1
o-Terphenyl	113		70 - 130				12/27/24 14:25	01/03/25 02:28	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 4

Lab Sample ID: 890-7515-4

Date Collected: 12/24/24 08:45

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127	F1	9.98		mg/Kg			12/31/24 19:56	1

Client Sample ID: CS - 5

Lab Sample ID: 890-7515-5

Date Collected: 12/24/24 08:50

Matrix: Solid

Date Received: 12/26/24 08:12

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 *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 13:17	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 13:17	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 13:17	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399		mg/Kg		12/27/24 09:33	12/27/24 13:17	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 13:17	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		12/27/24 09:33	12/27/24 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/27/24 09:33	12/27/24 13:17	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/27/24 09:33	12/27/24 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			12/27/24 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			01/03/25 02:45	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		12/27/24 14:25	01/03/25 02:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U +	49.8		mg/Kg		12/27/24 14:25	01/03/25 02:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:25	01/03/25 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				12/27/24 14:25	01/03/25 02:45	1
o-Terphenyl	101		70 - 130				12/27/24 14:25	01/03/25 02:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		10.0		mg/Kg			12/31/24 20:14	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 6

Lab Sample ID: 890-7515-6

Date Collected: 12/24/24 08:55

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 13:37	1
Toluene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 13:37	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 13:37	1
m-Xylene & p-Xylene	<0.00404	U *- *1	0.00404		mg/Kg		12/27/24 09:33	12/27/24 13:37	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 13:37	1
Xylenes, Total	<0.00404	U *- *1	0.00404		mg/Kg		12/27/24 09:33	12/27/24 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/27/24 09:33	12/27/24 13:37	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/27/24 09:33	12/27/24 13:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/27/24 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	<50.0	U	50.0		mg/Kg			12/31/24 11:17	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	<50.0	U *-	50.0		mg/Kg		12/27/24 14:30	12/31/24 11:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		12/27/24 14:30	12/31/24 11:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:30	12/31/24 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	12/27/24 14:30	12/31/24 11:17	1
o-Terphenyl	74		70 - 130	12/27/24 14:30	12/31/24 11:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		10.0		mg/Kg			12/31/24 20:20	1

Client Sample ID: CS - 7

Lab Sample ID: 890-7515-7

Date Collected: 12/24/24 09:00

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201		mg/Kg		12/27/24 09:33	12/27/24 13:58	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		12/27/24 09:33	12/27/24 13:58	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		12/27/24 09:33	12/27/24 13:58	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402		mg/Kg		12/27/24 09:33	12/27/24 13:58	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		12/27/24 09:33	12/27/24 13:58	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		12/27/24 09:33	12/27/24 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/27/24 09:33	12/27/24 13:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 7

Lab Sample ID: 890-7515-7

Date Collected: 12/24/24 09:00

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 09:33	12/27/24 13:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/27/24 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	<49.9	U	49.9		mg/Kg			12/31/24 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		12/27/24 14:30	12/31/24 12:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		12/27/24 14:30	12/31/24 12:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:30	12/31/24 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				12/27/24 14:30	12/31/24 12:18	1
o-Terphenyl	102		70 - 130				12/27/24 14:30	12/31/24 12:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		9.96		mg/Kg			12/31/24 20:37	1

Client Sample ID: CS - 8

Lab Sample ID: 890-7515-8

Date Collected: 12/24/24 09:05

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U * *	0.00200		mg/Kg		12/27/24 09:33	12/27/24 14:18	1
Toluene	<0.00200	U * *	0.00200		mg/Kg		12/27/24 09:33	12/27/24 14:18	1
Ethylbenzene	<0.00200	U * *	0.00200		mg/Kg		12/27/24 09:33	12/27/24 14:18	1
m-Xylene & p-Xylene	<0.00401	U * *	0.00401		mg/Kg		12/27/24 09:33	12/27/24 14:18	1
o-Xylene	<0.00200	U * *	0.00200		mg/Kg		12/27/24 09:33	12/27/24 14:18	1
Xylenes, Total	<0.00401	U * *	0.00401		mg/Kg		12/27/24 09:33	12/27/24 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/27/24 09:33	12/27/24 14:18	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/27/24 09:33	12/27/24 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			12/27/24 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	<49.8	U	49.8		mg/Kg			12/31/24 12:38	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 8

Lab Sample ID: 890-7515-8

Date Collected: 12/24/24 09:05

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *	49.8		mg/Kg		12/27/24 14:30	12/31/24 12:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		12/27/24 14:30	12/31/24 12:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:30	12/31/24 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				12/27/24 14:30	12/31/24 12:38	1
o-Terphenyl	111		70 - 130				12/27/24 14:30	12/31/24 12:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		9.94		mg/Kg			12/31/24 20:43	1

Client Sample ID: CS - 9

Lab Sample ID: 890-7515-9

Date Collected: 12/24/24 09:10

Matrix: Solid

Date Received: 12/26/24 08:12

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		12/27/24 09:33	12/27/24 14:39	1
Toluene	<0.00199	U * *	0.00199		mg/Kg		12/27/24 09:33	12/27/24 14:39	1
Ethylbenzene	<0.00199	U * *	0.00199		mg/Kg		12/27/24 09:33	12/27/24 14:39	1
m-Xylene & p-Xylene	<0.00398	U * *	0.00398		mg/Kg		12/27/24 09:33	12/27/24 14:39	1
o-Xylene	<0.00199	U * *	0.00199		mg/Kg		12/27/24 09:33	12/27/24 14:39	1
Xylenes, Total	<0.00398	U * *	0.00398		mg/Kg		12/27/24 09:33	12/27/24 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/27/24 09:33	12/27/24 14:39	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/27/24 09:33	12/27/24 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			12/27/24 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	<50.0	U	50.0		mg/Kg			12/31/24 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0		mg/Kg		12/27/24 14:30	12/31/24 12:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		12/27/24 14:30	12/31/24 12:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:30	12/31/24 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				12/27/24 14:30	12/31/24 12:59	1
o-Terphenyl	94		70 - 130				12/27/24 14:30	12/31/24 12:59	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 9

Lab Sample ID: 890-7515-9

Date Collected: 12/24/24 09:10

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		9.90		mg/Kg			12/31/24 20:49	1

Client Sample ID: CS - 10

Lab Sample ID: 890-7515-10

Date Collected: 12/24/24 09:15

Matrix: Solid

Date Received: 12/26/24 08:12

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 *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 14:59	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 14:59	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 14:59	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399		mg/Kg		12/27/24 09:33	12/27/24 14:59	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 14:59	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		12/27/24 09:33	12/27/24 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/27/24 09:33	12/27/24 14:59	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/27/24 09:33	12/27/24 14:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/24 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	<49.8	U	49.8		mg/Kg			12/31/24 13:20	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		12/27/24 14:30	12/31/24 13:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		12/27/24 14:30	12/31/24 13:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:30	12/31/24 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				12/27/24 14:30	12/31/24 13:20	1
o-Terphenyl	118		70 - 130				12/27/24 14:30	12/31/24 13:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	635		9.94		mg/Kg			12/31/24 20:55	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 11

Lab Sample ID: 890-7515-11

Date Collected: 12/24/24 09:20

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 16:33	1
Toluene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 16:33	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 16:33	1
m-Xylene & p-Xylene	<0.00404	U *- *1	0.00404		mg/Kg		12/27/24 09:33	12/27/24 16:33	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 16:33	1
Xylenes, Total	<0.00404	U *- *1	0.00404		mg/Kg		12/27/24 09:33	12/27/24 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/27/24 09:33	12/27/24 16:33	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/27/24 09:33	12/27/24 16:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/27/24 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 13:41	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		12/27/24 14:30	12/31/24 13:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		12/27/24 14:30	12/31/24 13:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:30	12/31/24 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	12/27/24 14:30	12/31/24 13:41	1
o-Terphenyl	91		70 - 130	12/27/24 14:30	12/31/24 13:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		10.0		mg/Kg			12/31/24 21:01	1

Client Sample ID: CS - 12

Lab Sample ID: 890-7515-12

Date Collected: 12/24/24 09:25

Matrix: Solid

Date Received: 12/26/24 08:12

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 *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 16:54	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 16:54	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 16:54	1
m-Xylene & p-Xylene	<0.00401	U *- *1	0.00401		mg/Kg		12/27/24 09:33	12/27/24 16:54	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 16:54	1
Xylenes, Total	<0.00401	U *- *1	0.00401		mg/Kg		12/27/24 09:33	12/27/24 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/27/24 09:33	12/27/24 16:54	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 12

Lab Sample ID: 890-7515-12

Date Collected: 12/24/24 09:25

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 09:33	12/27/24 16:54	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			12/27/24 16:54	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			12/31/24 14:01	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	<50.0	U *	50.0		mg/Kg		12/27/24 14:30	12/31/24 14:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		12/27/24 14:30	12/31/24 14:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:30	12/31/24 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/27/24 14:30	12/31/24 14:01	1
o-Terphenyl	108		70 - 130				12/27/24 14:30	12/31/24 14:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	586		9.96		mg/Kg			12/31/24 21:07	1

Client Sample ID: CS - 13

Lab Sample ID: 890-7515-13

Date Collected: 12/24/24 09:30

Matrix: Solid

Date Received: 12/26/24 08:12

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		12/27/24 09:33	12/27/24 17:14	1
Toluene	<0.00200	U * *	0.00200		mg/Kg		12/27/24 09:33	12/27/24 17:14	1
Ethylbenzene	<0.00200	U * *	0.00200		mg/Kg		12/27/24 09:33	12/27/24 17:14	1
m-Xylene & p-Xylene	<0.00399	U * *	0.00399		mg/Kg		12/27/24 09:33	12/27/24 17:14	1
o-Xylene	<0.00200	U * *	0.00200		mg/Kg		12/27/24 09:33	12/27/24 17:14	1
Xylenes, Total	<0.00399	U * *	0.00399		mg/Kg		12/27/24 09:33	12/27/24 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/27/24 09:33	12/27/24 17:14	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 09:33	12/27/24 17:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/24 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			12/31/24 14:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 13

Lab Sample ID: 890-7515-13

Date Collected: 12/24/24 09:30

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *	49.8		mg/Kg		12/27/24 14:30	12/31/24 14:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		12/27/24 14:30	12/31/24 14:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:30	12/31/24 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				12/27/24 14:30	12/31/24 14:22	1
o-Terphenyl	96		70 - 130				12/27/24 14:30	12/31/24 14:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		9.90		mg/Kg			12/31/24 21:13	1

Client Sample ID: CS - 14

Lab Sample ID: 890-7515-14

Date Collected: 12/24/24 09:35

Matrix: Solid

Date Received: 12/26/24 08:12

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		12/27/24 09:33	12/27/24 17:35	1
Toluene	<0.00199	U * *	0.00199		mg/Kg		12/27/24 09:33	12/27/24 17:35	1
Ethylbenzene	<0.00199	U * *	0.00199		mg/Kg		12/27/24 09:33	12/27/24 17:35	1
m-Xylene & p-Xylene	<0.00398	U * *	0.00398		mg/Kg		12/27/24 09:33	12/27/24 17:35	1
o-Xylene	<0.00199	U * *	0.00199		mg/Kg		12/27/24 09:33	12/27/24 17:35	1
Xylenes, Total	<0.00398	U * *	0.00398		mg/Kg		12/27/24 09:33	12/27/24 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/27/24 09:33	12/27/24 17:35	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/27/24 09:33	12/27/24 17:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/24 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	<49.9	U	49.9		mg/Kg			12/31/24 14:42	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		12/27/24 14:30	12/31/24 14:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		12/27/24 14:30	12/31/24 14:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:30	12/31/24 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				12/27/24 14:30	12/31/24 14:42	1
o-Terphenyl	106		70 - 130				12/27/24 14:30	12/31/24 14:42	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 14

Lab Sample ID: 890-7515-14

Date Collected: 12/24/24 09:35

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	684	F1	9.94		mg/Kg			12/31/24 19:14	1

Client Sample ID: CS - 15

Lab Sample ID: 890-7515-15

Date Collected: 12/24/24 09:40

Matrix: Solid

Date Received: 12/26/24 08:12

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 *- *1	0.00201		mg/Kg		12/27/24 09:33	12/27/24 17:55	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		12/27/24 09:33	12/27/24 17:55	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		12/27/24 09:33	12/27/24 17:55	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402		mg/Kg		12/27/24 09:33	12/27/24 17:55	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		12/27/24 09:33	12/27/24 17:55	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		12/27/24 09:33	12/27/24 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/27/24 09:33	12/27/24 17:55	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/27/24 09:33	12/27/24 17:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/27/24 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	<50.0	U	50.0		mg/Kg			12/31/24 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		12/27/24 14:30	12/31/24 15:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		12/27/24 14:30	12/31/24 15:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:30	12/31/24 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				12/27/24 14:30	12/31/24 15:02	1
o-Terphenyl	103		70 - 130				12/27/24 14:30	12/31/24 15:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	865		9.90		mg/Kg			12/31/24 19:37	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 16

Lab Sample ID: 890-7515-16

Date Collected: 12/24/24 09:45

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 18:16	1
Toluene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 18:16	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 18:16	1
m-Xylene & p-Xylene	<0.00403	U *- *1	0.00403		mg/Kg		12/27/24 09:33	12/27/24 18:16	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		12/27/24 09:33	12/27/24 18:16	1
Xylenes, Total	<0.00403	U *- *1	0.00403		mg/Kg		12/27/24 09:33	12/27/24 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/27/24 09:33	12/27/24 18:16	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 09:33	12/27/24 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			12/27/24 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			12/31/24 16:04	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		12/27/24 14:30	12/31/24 16:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		12/27/24 14:30	12/31/24 16:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:30	12/31/24 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	12/27/24 14:30	12/31/24 16:04	1
o-Terphenyl	101		70 - 130	12/27/24 14:30	12/31/24 16:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	632		9.98		mg/Kg			12/31/24 19:45	1

Client Sample ID: CS - 17

Lab Sample ID: 890-7515-17

Date Collected: 12/24/24 09:50

Matrix: Solid

Date Received: 12/26/24 08:12

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 *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 18:36	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 18:36	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 18:36	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399		mg/Kg		12/27/24 09:33	12/27/24 18:36	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 18:36	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		12/27/24 09:33	12/27/24 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/27/24 09:33	12/27/24 18:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 17

Lab Sample ID: 890-7515-17

Date Collected: 12/24/24 09:50

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	12/27/24 09:33	12/27/24 18:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/24 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	<50.0	U	50.0		mg/Kg			12/31/24 16:24	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		12/27/24 14:30	12/31/24 16:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		12/27/24 14:30	12/31/24 16:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:30	12/31/24 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				12/27/24 14:30	12/31/24 16:24	1
o-Terphenyl	96		70 - 130				12/27/24 14:30	12/31/24 16:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		10.0		mg/Kg			12/31/24 19:53	1

Client Sample ID: CS - 18

Lab Sample ID: 890-7515-18

Date Collected: 12/24/24 09:55

Matrix: Solid

Date Received: 12/26/24 08:12

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 *- *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 18:57	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 18:57	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 18:57	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		12/27/24 09:33	12/27/24 18:57	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		12/27/24 09:33	12/27/24 18:57	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		12/27/24 09:33	12/27/24 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/27/24 09:33	12/27/24 18:57	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/27/24 09:33	12/27/24 18:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/24 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	<49.9	U	49.9		mg/Kg			12/31/24 16:44	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 18

Lab Sample ID: 890-7515-18

Date Collected: 12/24/24 09:55

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		12/27/24 14:30	12/31/24 16:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		12/27/24 14:30	12/31/24 16:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:30	12/31/24 16:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				12/27/24 14:30	12/31/24 16:44	1
o-Terphenyl	106		70 - 130				12/27/24 14:30	12/31/24 16:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	316		10.0		mg/Kg			12/31/24 20:01	1

Client Sample ID: CS - 19

Lab Sample ID: 890-7515-19

Date Collected: 12/24/24 10:00

Matrix: Solid

Date Received: 12/26/24 08:12

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		12/27/24 09:33	12/27/24 19:17	1
Toluene	<0.00201	U * *	0.00201		mg/Kg		12/27/24 09:33	12/27/24 19:17	1
Ethylbenzene	<0.00201	U * *	0.00201		mg/Kg		12/27/24 09:33	12/27/24 19:17	1
m-Xylene & p-Xylene	<0.00402	U * *	0.00402		mg/Kg		12/27/24 09:33	12/27/24 19:17	1
o-Xylene	<0.00201	U * *	0.00201		mg/Kg		12/27/24 09:33	12/27/24 19:17	1
Xylenes, Total	<0.00402	U * *	0.00402		mg/Kg		12/27/24 09:33	12/27/24 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/27/24 09:33	12/27/24 19:17	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/27/24 09:33	12/27/24 19:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/27/24 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	<50.0	U	50.0		mg/Kg			12/31/24 17:05	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		12/27/24 14:30	12/31/24 17:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		12/27/24 14:30	12/31/24 17:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:30	12/31/24 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				12/27/24 14:30	12/31/24 17:05	1
o-Terphenyl	97		70 - 130				12/27/24 14:30	12/31/24 17:05	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 19

Lab Sample ID: 890-7515-19

Date Collected: 12/24/24 10:00

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		9.96		mg/Kg			12/31/24 20:25	1

Client Sample ID: CS - 20

Lab Sample ID: 890-7515-20

Date Collected: 12/24/24 10:05

Matrix: Solid

Date Received: 12/26/24 08:12

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 *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 19:38	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 19:38	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 19:38	1
m-Xylene & p-Xylene	<0.00400	U *- *1	0.00400		mg/Kg		12/27/24 09:33	12/27/24 19:38	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		12/27/24 09:33	12/27/24 19:38	1
Xylenes, Total	<0.00400	U *- *1	0.00400		mg/Kg		12/27/24 09:33	12/27/24 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/27/24 09:33	12/27/24 19:38	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/27/24 09:33	12/27/24 19:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/27/24 19:38	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			12/31/24 17:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		12/27/24 14:30	12/31/24 17:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		12/27/24 14:30	12/31/24 17:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:30	12/31/24 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/27/24 14:30	12/31/24 17:26	1
o-Terphenyl	89		70 - 130				12/27/24 14:30	12/31/24 17:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	594		9.98		mg/Kg			12/31/24 20:33	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 21

Lab Sample ID: 890-7515-21

Date Collected: 12/24/24 10:10

Matrix: Solid

Date Received: 12/26/24 08:12

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		12/27/24 09:29	12/30/24 12:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 12:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 12:33	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		12/27/24 09:29	12/30/24 12:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 12:33	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		12/27/24 09:29	12/30/24 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/27/24 09:29	12/30/24 12:33	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/27/24 09:29	12/30/24 12:33	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			12/30/24 12:33	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			12/31/24 17:46	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		12/27/24 14:30	12/31/24 17:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		12/27/24 14:30	12/31/24 17:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:30	12/31/24 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				12/27/24 14:30	12/31/24 17:46	1
o-Terphenyl	108		70 - 130				12/27/24 14:30	12/31/24 17:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	783		10.0		mg/Kg			12/31/24 20:40	1

Client Sample ID: CS - 22

Lab Sample ID: 890-7515-22

Date Collected: 12/24/24 10:15

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 12:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 12:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 12:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/27/24 09:29	12/30/24 12:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 12:53	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/27/24 09:29	12/30/24 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				12/27/24 09:29	12/30/24 12:53	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 22

Lab Sample ID: 890-7515-22

Date Collected: 12/24/24 10:15

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 09:29	12/30/24 12:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/30/24 12:53	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			12/31/24 18:06	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		12/27/24 14:30	12/31/24 18:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		12/27/24 14:30	12/31/24 18:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:30	12/31/24 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				12/27/24 14:30	12/31/24 18:06	1
o-Terphenyl	104		70 - 130				12/27/24 14:30	12/31/24 18:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	640		10.0		mg/Kg			12/31/24 20:48	1

Client Sample ID: CS - 23

Lab Sample ID: 890-7515-23

Date Collected: 12/24/24 10:20

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 13:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 13:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 13:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/27/24 09:29	12/30/24 13:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 13:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/27/24 09:29	12/30/24 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				12/27/24 09:29	12/30/24 13:14	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/27/24 09:29	12/30/24 13:14	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			12/30/24 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 18:27	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 23

Lab Sample ID: 890-7515-23

Date Collected: 12/24/24 10:20

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *	49.7		mg/Kg		12/27/24 14:30	12/31/24 18:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U *	49.7		mg/Kg		12/27/24 14:30	12/31/24 18:27	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/27/24 14:30	12/31/24 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/27/24 14:30	12/31/24 18:27	1
o-Terphenyl	89		70 - 130				12/27/24 14:30	12/31/24 18:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	497		9.98		mg/Kg			12/31/24 20:56	1

Client Sample ID: CS - 24

Lab Sample ID: 890-7515-24

Date Collected: 12/24/24 10:25

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 13:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 13:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 13:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 09:29	12/30/24 13:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 13:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 09:29	12/30/24 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/27/24 09:29	12/30/24 13:34	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/27/24 09:29	12/30/24 13:34	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			12/30/24 13:34	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			12/31/24 18:48	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	<49.8	U *	49.8		mg/Kg		12/27/24 14:30	12/31/24 18:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		12/27/24 14:30	12/31/24 18:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:30	12/31/24 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				12/27/24 14:30	12/31/24 18:48	1
o-Terphenyl	100		70 - 130				12/27/24 14:30	12/31/24 18:48	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 24

Lab Sample ID: 890-7515-24

Date Collected: 12/24/24 10:25

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	702	F1	10.0		mg/Kg			12/31/24 21:04	1

Client Sample ID: CS - 25

Lab Sample ID: 890-7515-25

Date Collected: 12/24/24 10:30

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 13:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 13:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 13:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/27/24 09:29	12/30/24 13:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 13:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 09:29	12/30/24 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/27/24 09:29	12/30/24 13:55	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/27/24 09:29	12/30/24 13:55	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			12/30/24 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 19:08	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	<49.8	U *	49.8		mg/Kg		12/27/24 14:30	12/31/24 19:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		12/27/24 14:30	12/31/24 19:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:30	12/31/24 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				12/27/24 14:30	12/31/24 19:08	1
o-Terphenyl	103		70 - 130				12/27/24 14:30	12/31/24 19:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	551		10.0		mg/Kg			12/31/24 21:28	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 26

Lab Sample ID: 890-7515-26

Date Collected: 12/24/24 10:35

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 14:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 14:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 14:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/27/24 09:29	12/30/24 14:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 14:15	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/27/24 09:29	12/30/24 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/27/24 09:29	12/30/24 14:15	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/27/24 09:29	12/30/24 14:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/30/24 14:15	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			01/02/25 11:16	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	<50.0	U F1	50.0		mg/Kg		12/27/24 14:33	01/02/25 11:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/27/24 14:33	01/02/25 11:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 11:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	12/27/24 14:33	01/02/25 11:16	1
o-Terphenyl	67	S1-	70 - 130	12/27/24 14:33	01/02/25 11:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	748		10.0		mg/Kg			12/31/24 21:35	1

Client Sample ID: CS - 27

Lab Sample ID: 890-7515-27

Date Collected: 12/24/24 10:40

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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		12/27/24 09:29	12/30/24 14:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:29	12/30/24 14:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:29	12/30/24 14:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/27/24 09:29	12/30/24 14:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:29	12/30/24 14:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/27/24 09:29	12/30/24 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/27/24 09:29	12/30/24 14:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 27

Lab Sample ID: 890-7515-27

Date Collected: 12/24/24 10:40

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	12/27/24 09:29	12/30/24 14:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/30/24 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	<49.8	U	49.8		mg/Kg			01/02/25 13:04	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		12/27/24 14:33	01/02/25 13:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:33	01/02/25 13:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:33	01/02/25 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				12/27/24 14:33	01/02/25 13:04	1
o-Terphenyl	69	S1-	70 - 130				12/27/24 14:33	01/02/25 13:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	568		10.0		mg/Kg			12/31/24 21:59	1

Client Sample ID: CS - 28

Lab Sample ID: 890-7515-28

Date Collected: 12/24/24 10:45

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 14:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 14:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 14:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/27/24 09:29	12/30/24 14:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 14:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/27/24 09:29	12/30/24 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/27/24 09:29	12/30/24 14:56	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/27/24 09:29	12/30/24 14:56	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			12/30/24 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/02/25 13:18	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 28

Lab Sample ID: 890-7515-28

Date Collected: 12/24/24 10:45

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/24 14:33	01/02/25 13:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 14:33	01/02/25 13:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:33	01/02/25 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				12/27/24 14:33	01/02/25 13:18	1
o-Terphenyl	69	S1-	70 - 130				12/27/24 14:33	01/02/25 13:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		10.0		mg/Kg			12/31/24 22:07	1

Client Sample ID: CS - 29

Lab Sample ID: 890-7515-29

Date Collected: 12/24/24 10:50

Matrix: Solid

Date Received: 12/26/24 08:12

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		12/27/24 09:29	12/30/24 15:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 15:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 15:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 09:29	12/30/24 15:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 15:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 09:29	12/30/24 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/27/24 09:29	12/30/24 15:17	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/27/24 09:29	12/30/24 15:17	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			12/30/24 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/02/25 13:32	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	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 13:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 13:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/27/24 14:33	01/02/25 13:32	1
o-Terphenyl	73		70 - 130				12/27/24 14:33	01/02/25 13:32	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 29

Lab Sample ID: 890-7515-29

Date Collected: 12/24/24 10:50

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	295		9.94		mg/Kg			12/31/24 22:15	1

Client Sample ID: CS - 30

Lab Sample ID: 890-7515-30

Date Collected: 12/24/24 10:55

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 15:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 15:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 15:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/27/24 09:29	12/30/24 15:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 15:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 09:29	12/30/24 15:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/27/24 09:29	12/30/24 15:37	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/27/24 09:29	12/30/24 15:37	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			12/30/24 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/02/25 13:49	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	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 13:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 13:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				12/27/24 14:33	01/02/25 13:49	1
o-Terphenyl	72		70 - 130				12/27/24 14:33	01/02/25 13:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		9.98		mg/Kg			12/31/24 22:23	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 31

Lab Sample ID: 890-7515-31

Date Collected: 12/24/24 11:00

Matrix: Solid

Date Received: 12/26/24 08:12

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 17:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 17:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 17:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/27/24 09:29	12/30/24 17:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 17:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/27/24 09:29	12/30/24 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/27/24 09:29	12/30/24 17:11	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 09:29	12/30/24 17:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/30/24 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/02/25 14:05	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		12/27/24 14:33	01/02/25 14:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 14:33	01/02/25 14:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:33	01/02/25 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	12/27/24 14:33	01/02/25 14:05	1
o-Terphenyl	70		70 - 130	12/27/24 14:33	01/02/25 14:05	1

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			12/31/24 22:31	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

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)
890-7515-1	CS - 1	115	107
890-7515-1 MS	CS - 1	112	249 S1+
890-7515-1 MSD	CS - 1	109	103
890-7515-2	CS - 2	117	107
890-7515-3	CS - 3	115	106
890-7515-4	CS - 4	112	108
890-7515-5	CS - 5	113	107
890-7515-6	CS - 6	118	107
890-7515-7	CS - 7	111	106
890-7515-8	CS - 8	118	107
890-7515-9	CS - 9	113	106
890-7515-10	CS - 10	111	107
890-7515-11	CS - 11	115	107
890-7515-12	CS - 12	116	106
890-7515-13	CS - 13	114	106
890-7515-14	CS - 14	115	107
890-7515-15	CS - 15	113	106
890-7515-16	CS - 16	113	106
890-7515-17	CS - 17	114	107
890-7515-18	CS - 18	116	107
890-7515-19	CS - 19	111	106
890-7515-20	CS - 20	115	106
890-7515-21	CS - 21	115	106
890-7515-21 MS	CS - 21	109	104
890-7515-21 MSD	CS - 21	116	104
890-7515-22	CS - 22	114	106
890-7515-23	CS - 23	114	105
890-7515-24	CS - 24	115	106
890-7515-25	CS - 25	113	106
890-7515-26	CS - 26	115	107
890-7515-27	CS - 27	117	107
890-7515-28	CS - 28	110	105
890-7515-29	CS - 29	111	106
890-7515-30	CS - 30	113	106
890-7515-31	CS - 31	120	106
LCS 880-98915/1-A	Lab Control Sample	108	104
LCS 880-98916/1-A	Lab Control Sample	107	104
LCSD 880-98915/2-A	Lab Control Sample Dup	107	103
LCSD 880-98916/2-A	Lab Control Sample Dup	0 S1-	0 S1-
MB 880-98915/5-A	Method Blank	108	102
MB 880-98916/5-A	Method Blank	109	102

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: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

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)
890-7515-1	CS - 1	103	105
890-7515-2	CS - 2	109	111
890-7515-3	CS - 3	98	99
890-7515-4	CS - 4	110	113
890-7515-5	CS - 5	99	101
890-7515-6	CS - 6	66 S1-	74
890-7515-6 MS	CS - 6	86	92
890-7515-6 MSD	CS - 6	85	91
890-7515-7	CS - 7	83	102
890-7515-8	CS - 8	93	111
890-7515-9	CS - 9	78	94
890-7515-10	CS - 10	96	118
890-7515-11	CS - 11	75	91
890-7515-12	CS - 12	91	108
890-7515-13	CS - 13	79	96
890-7515-14	CS - 14	86	106
890-7515-15	CS - 15	85	103
890-7515-16	CS - 16	82	101
890-7515-17	CS - 17	79	96
890-7515-18	CS - 18	86	106
890-7515-19	CS - 19	78	97
890-7515-20	CS - 20	71	89
890-7515-21	CS - 21	87	108
890-7515-22	CS - 22	84	104
890-7515-23	CS - 23	71	89
890-7515-24	CS - 24	80	100
890-7515-25	CS - 25	82	103
890-7515-26	CS - 26	68 S1-	67 S1-
890-7515-26 MS	CS - 26	74	71
890-7515-26 MSD	CS - 26	74	70
890-7515-27	CS - 27	68 S1-	69 S1-
890-7515-28	CS - 28	69 S1-	69 S1-
890-7515-29	CS - 29	71	73
890-7515-30	CS - 30	73	72
890-7515-31	CS - 31	73	70
LCS 880-98967/2-A	Lab Control Sample	135 S1+	147 S1+
LCS 880-98968/2-A	Lab Control Sample	68 S1-	70
LCS 880-98970/2-A	Lab Control Sample	118	108
LCSD 880-98967/3-A	Lab Control Sample Dup	140 S1+	150 S1+
LCSD 880-98968/3-A	Lab Control Sample Dup	68 S1-	69 S1-
LCSD 880-98970/3-A	Lab Control Sample Dup	128	118
MB 880-98967/1-A	Method Blank	132 S1+	136 S1+
MB 880-98968/1-A	Method Blank	91	115
MB 880-98970/1-A	Method Blank	92	91
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98915/5-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 09:29	12/30/24 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/27/24 09:29	12/30/24 12:11	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/27/24 09:29	12/30/24 12:11	1

Lab Sample ID: LCS 880-98915/1-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08157		mg/Kg		82	70 - 130
Toluene	0.100	0.08119		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.07901		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1593		mg/Kg		80	70 - 130
o-Xylene	0.100	0.08602		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-98915/2-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09210		mg/Kg		92	70 - 130	12	35
Toluene	0.100	0.09059		mg/Kg		91	70 - 130	11	35
Ethylbenzene	0.100	0.08775		mg/Kg		88	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1772		mg/Kg		89	70 - 130	11	35
o-Xylene	0.100	0.09422		mg/Kg		94	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-7515-21 MS

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: CS - 21

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1011		mg/Kg		101	70 - 130
Toluene	<0.00199	U	0.0996	0.08001		mg/Kg		80	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

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

Lab Sample ID: 890-7515-21 MS

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: CS - 21

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.07159		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.03152	F1	mg/Kg		16	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09518		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-7515-21 MSD

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: CS - 21

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1022		mg/Kg		101	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.07713		mg/Kg		77	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.101	0.07117		mg/Kg		71	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.202	0.01728	F1 F2	mg/Kg		9	70 - 130	58	35
o-Xylene	<0.00199	U	0.101	0.09905		mg/Kg		98	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-98916/5-A

Matrix: Solid

Analysis Batch: 98926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98916

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:33	12/27/24 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:33	12/27/24 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:33	12/27/24 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 09:33	12/27/24 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:33	12/27/24 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 09:33	12/27/24 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	12/27/24 09:33	12/27/24 11:33	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/27/24 09:33	12/27/24 11:33	1

Lab Sample ID: LCS 880-98916/1-A

Matrix: Solid

Analysis Batch: 98926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98916

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1070		mg/Kg		107	70 - 130
Toluene	0.100	0.1051		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1022		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2037		mg/Kg		102	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

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

Lab Sample ID: LCS 880-98916/1-A

Matrix: Solid

Analysis Batch: 98926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98916

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1062		mg/Kg		106	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	107		70 - 130				
1,4-Difluorobenzene (Surr)	104		70 - 130				

Lab Sample ID: LCSD 880-98916/2-A

Matrix: Solid

Analysis Batch: 98926

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98916

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	<0.00200	U *- *1	mg/Kg		0	70 - 130	200	35
Toluene	0.100	<0.00200	U *- *1	mg/Kg		0	70 - 130	200	35
Ethylbenzene	0.100	<0.00200	U *- *1	mg/Kg		0	70 - 130	200	35
m-Xylene & p-Xylene	0.200	<0.00400	U *- *1	mg/Kg		0	70 - 130	200	35
o-Xylene	0.100	<0.00200	U *- *1	mg/Kg		0	70 - 130	200	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	0	S1-	70 - 130						
1,4-Difluorobenzene (Surr)	0	S1-	70 - 130						

Lab Sample ID: 890-7515-1 MS

Matrix: Solid

Analysis Batch: 98926

Client Sample ID: CS - 1

Prep Type: Total/NA

Prep Batch: 98916

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U *- *1	0.0996	0.1085		mg/Kg		109	70 - 130
Toluene	<0.00199	U *- *1	0.0996	0.1056		mg/Kg		106	70 - 130
Ethylbenzene	<0.00199	U *- *1	0.0996	0.1044		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00398	U *- *1	0.199	0.2145		mg/Kg		108	70 - 130
o-Xylene	<0.00199	U *- *1	0.0996	0.1093		mg/Kg		110	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	112		70 - 130						
1,4-Difluorobenzene (Surr)	249	S1+	70 - 130						

Lab Sample ID: 890-7515-1 MSD

Matrix: Solid

Analysis Batch: 98926

Client Sample ID: CS - 1

Prep Type: Total/NA

Prep Batch: 98916

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U *- *1	0.101	0.1083		mg/Kg		107	70 - 130	0	35
Toluene	<0.00199	U *- *1	0.101	0.1053		mg/Kg		104	70 - 130	0	35
Ethylbenzene	<0.00199	U *- *1	0.101	0.1027		mg/Kg		102	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U *- *1	0.202	0.2105		mg/Kg		104	70 - 130	2	35
o-Xylene	<0.00199	U *- *1	0.101	0.1076		mg/Kg		107	70 - 130	2	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

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

Lab Sample ID: 890-7515-1 MSD

Matrix: Solid

Analysis Batch: 98926

Client Sample ID: CS - 1

Prep Type: Total/NA

Prep Batch: 98916

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-98967/1-A

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98967

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:25	01/02/25 20:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:25	01/02/25 20:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:25	01/02/25 20:05	1
Surrogate	MB MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	132	S1+	70 - 130				12/27/24 14:25	01/02/25 20:05	1
o-Terphenyl	136	S1+	70 - 130				12/27/24 14:25	01/02/25 20:05	1

Lab Sample ID: LCS 880-98967/2-A

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1249		mg/Kg		125	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1397	*+	mg/Kg		140	70 - 130		
Surrogate	LCS LCS		Limits						
	%Recovery	Qualifier							
1-Chlorooctane	135	S1+	70 - 130						
o-Terphenyl	147	S1+	70 - 130						

Lab Sample ID: LCSD 880-98967/3-A

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98967

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1287		mg/Kg		129	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1411	*+	mg/Kg		141	70 - 130	1	20
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
1-Chlorooctane	140	S1+	70 - 130						
o-Terphenyl	150	S1+	70 - 130						

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

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

Lab Sample ID: MB 880-98968/1-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98968

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		12/27/24 14:30	12/31/24 08:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:30	12/31/24 08:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:30	12/31/24 08:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/27/24 14:30	12/31/24 08:53	1
o-Terphenyl	115		70 - 130				12/27/24 14:30	12/31/24 08:53	1

Lab Sample ID: LCS 880-98968/2-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	542.7	*-	mg/Kg		54	70 - 130
Diesel Range Organics (Over C10-C28)	1000	628.7	*-	mg/Kg		63	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	68	S1-	70 - 130				
o-Terphenyl	70		70 - 130				

Lab Sample ID: LCSD 880-98968/3-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	515.4	*-	mg/Kg		52	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	658.9	*-	mg/Kg		66	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	68	S1-	70 - 130						
o-Terphenyl	69	S1-	70 - 130						

Lab Sample ID: 890-7515-6 MS

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: CS - 6

Prep Type: Total/NA

Prep Batch: 98968

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	997	942.3		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *-	997	761.4		mg/Kg		76	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

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

Lab Sample ID: 890-7515-6 MS

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: CS - 6

Prep Type: Total/NA

Prep Batch: 98968

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-7515-6 MSD

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: CS - 6

Prep Type: Total/NA

Prep Batch: 98968

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	997	1003		mg/Kg		101	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U *	997	753.8		mg/Kg		76	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: MB 880-98970/1-A

Matrix: Solid

Analysis Batch: 99294

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98970

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		12/27/24 14:33	01/02/25 09:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 09:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 09:40	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	92		70 - 130	12/27/24 14:33	01/02/25 09:40	1			
o-Terphenyl	91		70 - 130	12/27/24 14:33	01/02/25 09:40	1			

Lab Sample ID: LCS 880-98970/2-A

Matrix: Solid

Analysis Batch: 99294

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	963.1		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	991.1		mg/Kg		99	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	108		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

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

Lab Sample ID: LCSD 880-98970/3-A

Matrix: Solid

Analysis Batch: 99294

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1087		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	1078		mg/Kg		108	70 - 130	8	20
		LCSD %Recovery	LCSD Qualifier						
Surrogate									
1-Chlorooctane		128							
o-Terphenyl		118							

Lab Sample ID: 890-7515-26 MS

Matrix: Solid

Analysis Batch: 99294

Client Sample ID: CS - 26

Prep Type: Total/NA

Prep Batch: 98970

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	<50.0	U F1	998	600.9	F1	mg/Kg		60	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	597.0	F1	mg/Kg		60	70 - 130		
		MS %Recovery	MS Qualifier								
Surrogate											
1-Chlorooctane		74									
o-Terphenyl		71									

Lab Sample ID: 890-7515-26 MSD

Matrix: Solid

Analysis Batch: 99294

Client Sample ID: CS - 26

Prep Type: Total/NA

Prep Batch: 98970

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	590.3	F1	mg/Kg		59	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	580.1	F1	mg/Kg		58	70 - 130	3	20
		MSD %Recovery	MSD Qualifier								
Surrogate											
1-Chlorooctane		74									
o-Terphenyl		70									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99078/1-A

Matrix: Solid

Analysis Batch: 99088

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			12/31/24 18:50	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-99078/2-A

Matrix: Solid

Analysis Batch: 99088

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.0		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-99078/3-A

Matrix: Solid

Analysis Batch: 99088

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	249.6		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-7515-14 MS

Matrix: Solid

Analysis Batch: 99088

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	684	F1	249	837.3	F1	mg/Kg		62	90 - 110

Lab Sample ID: 890-7515-14 MSD

Matrix: Solid

Analysis Batch: 99088

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	684	F1	249	841.4	F1	mg/Kg		63	90 - 110	0	20

Lab Sample ID: 890-7515-24 MS

Matrix: Solid

Analysis Batch: 99088

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	702	F1	250	876.3	F1	mg/Kg		70	90 - 110

Lab Sample ID: 890-7515-24 MSD

Matrix: Solid

Analysis Batch: 99088

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	702	F1	250	878.5	F1	mg/Kg		71	90 - 110	0	20

Lab Sample ID: MB 880-99155/1-A

Matrix: Solid

Analysis Batch: 99159

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			12/31/24 18:16	1

Lab Sample ID: LCS 880-99155/2-A

Matrix: Solid

Analysis Batch: 99159

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	272.6		mg/Kg		109	90 - 110

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-99155/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 99159											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	272.8		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 890-7515-4 MS				Client Sample ID: CS - 4							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 99159											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	127	F1	250	414.4	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 890-7515-4 MSD				Client Sample ID: CS - 4							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 99159											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	127	F1	250	409.8	F1	mg/Kg		113	90 - 110	1	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

GC VOA

Prep Batch: 98915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-21	CS - 21	Total/NA	Solid	5035	
890-7515-22	CS - 22	Total/NA	Solid	5035	
890-7515-23	CS - 23	Total/NA	Solid	5035	
890-7515-24	CS - 24	Total/NA	Solid	5035	
890-7515-25	CS - 25	Total/NA	Solid	5035	
890-7515-26	CS - 26	Total/NA	Solid	5035	
890-7515-27	CS - 27	Total/NA	Solid	5035	
890-7515-28	CS - 28	Total/NA	Solid	5035	
890-7515-29	CS - 29	Total/NA	Solid	5035	
890-7515-30	CS - 30	Total/NA	Solid	5035	
890-7515-31	CS - 31	Total/NA	Solid	5035	
MB 880-98915/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98915/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98915/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7515-21 MS	CS - 21	Total/NA	Solid	5035	
890-7515-21 MSD	CS - 21	Total/NA	Solid	5035	

Prep Batch: 98916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-1	CS - 1	Total/NA	Solid	5035	
890-7515-2	CS - 2	Total/NA	Solid	5035	
890-7515-3	CS - 3	Total/NA	Solid	5035	
890-7515-4	CS - 4	Total/NA	Solid	5035	
890-7515-5	CS - 5	Total/NA	Solid	5035	
890-7515-6	CS - 6	Total/NA	Solid	5035	
890-7515-7	CS - 7	Total/NA	Solid	5035	
890-7515-8	CS - 8	Total/NA	Solid	5035	
890-7515-9	CS - 9	Total/NA	Solid	5035	
890-7515-10	CS - 10	Total/NA	Solid	5035	
890-7515-11	CS - 11	Total/NA	Solid	5035	
890-7515-12	CS - 12	Total/NA	Solid	5035	
890-7515-13	CS - 13	Total/NA	Solid	5035	
890-7515-14	CS - 14	Total/NA	Solid	5035	
890-7515-15	CS - 15	Total/NA	Solid	5035	
890-7515-16	CS - 16	Total/NA	Solid	5035	
890-7515-17	CS - 17	Total/NA	Solid	5035	
890-7515-18	CS - 18	Total/NA	Solid	5035	
890-7515-19	CS - 19	Total/NA	Solid	5035	
890-7515-20	CS - 20	Total/NA	Solid	5035	
MB 880-98916/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98916/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98916/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7515-1 MS	CS - 1	Total/NA	Solid	5035	
890-7515-1 MSD	CS - 1	Total/NA	Solid	5035	

Analysis Batch: 98926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-1	CS - 1	Total/NA	Solid	8021B	98916
890-7515-2	CS - 2	Total/NA	Solid	8021B	98916
890-7515-3	CS - 3	Total/NA	Solid	8021B	98916
890-7515-4	CS - 4	Total/NA	Solid	8021B	98916

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

GC VOA (Continued)

Analysis Batch: 98926 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-5	CS - 5	Total/NA	Solid	8021B	98916
890-7515-6	CS - 6	Total/NA	Solid	8021B	98916
890-7515-7	CS - 7	Total/NA	Solid	8021B	98916
890-7515-8	CS - 8	Total/NA	Solid	8021B	98916
890-7515-9	CS - 9	Total/NA	Solid	8021B	98916
890-7515-10	CS - 10	Total/NA	Solid	8021B	98916
890-7515-11	CS - 11	Total/NA	Solid	8021B	98916
890-7515-12	CS - 12	Total/NA	Solid	8021B	98916
890-7515-13	CS - 13	Total/NA	Solid	8021B	98916
890-7515-14	CS - 14	Total/NA	Solid	8021B	98916
890-7515-15	CS - 15	Total/NA	Solid	8021B	98916
890-7515-16	CS - 16	Total/NA	Solid	8021B	98916
890-7515-17	CS - 17	Total/NA	Solid	8021B	98916
890-7515-18	CS - 18	Total/NA	Solid	8021B	98916
890-7515-19	CS - 19	Total/NA	Solid	8021B	98916
890-7515-20	CS - 20	Total/NA	Solid	8021B	98916
MB 880-98916/5-A	Method Blank	Total/NA	Solid	8021B	98916
LCS 880-98916/1-A	Lab Control Sample	Total/NA	Solid	8021B	98916
LCSD 880-98916/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98916
890-7515-1 MS	CS - 1	Total/NA	Solid	8021B	98916
890-7515-1 MSD	CS - 1	Total/NA	Solid	8021B	98916

Analysis Batch: 99020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-21	CS - 21	Total/NA	Solid	8021B	98915
890-7515-22	CS - 22	Total/NA	Solid	8021B	98915
890-7515-23	CS - 23	Total/NA	Solid	8021B	98915
890-7515-24	CS - 24	Total/NA	Solid	8021B	98915
890-7515-25	CS - 25	Total/NA	Solid	8021B	98915
890-7515-26	CS - 26	Total/NA	Solid	8021B	98915
890-7515-27	CS - 27	Total/NA	Solid	8021B	98915
890-7515-28	CS - 28	Total/NA	Solid	8021B	98915
890-7515-29	CS - 29	Total/NA	Solid	8021B	98915
890-7515-30	CS - 30	Total/NA	Solid	8021B	98915
890-7515-31	CS - 31	Total/NA	Solid	8021B	98915
MB 880-98915/5-A	Method Blank	Total/NA	Solid	8021B	98915
LCS 880-98915/1-A	Lab Control Sample	Total/NA	Solid	8021B	98915
LCSD 880-98915/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98915
890-7515-21 MS	CS - 21	Total/NA	Solid	8021B	98915
890-7515-21 MSD	CS - 21	Total/NA	Solid	8021B	98915

Analysis Batch: 99121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-1	CS - 1	Total/NA	Solid	Total BTEX	
890-7515-2	CS - 2	Total/NA	Solid	Total BTEX	
890-7515-3	CS - 3	Total/NA	Solid	Total BTEX	
890-7515-4	CS - 4	Total/NA	Solid	Total BTEX	
890-7515-5	CS - 5	Total/NA	Solid	Total BTEX	
890-7515-6	CS - 6	Total/NA	Solid	Total BTEX	
890-7515-7	CS - 7	Total/NA	Solid	Total BTEX	
890-7515-8	CS - 8	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

GC VOA (Continued)

Analysis Batch: 99121 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-9	CS - 9	Total/NA	Solid	Total BTEX	
890-7515-10	CS - 10	Total/NA	Solid	Total BTEX	
890-7515-11	CS - 11	Total/NA	Solid	Total BTEX	
890-7515-12	CS - 12	Total/NA	Solid	Total BTEX	
890-7515-13	CS - 13	Total/NA	Solid	Total BTEX	
890-7515-14	CS - 14	Total/NA	Solid	Total BTEX	
890-7515-15	CS - 15	Total/NA	Solid	Total BTEX	
890-7515-16	CS - 16	Total/NA	Solid	Total BTEX	
890-7515-17	CS - 17	Total/NA	Solid	Total BTEX	
890-7515-18	CS - 18	Total/NA	Solid	Total BTEX	
890-7515-19	CS - 19	Total/NA	Solid	Total BTEX	
890-7515-20	CS - 20	Total/NA	Solid	Total BTEX	
890-7515-21	CS - 21	Total/NA	Solid	Total BTEX	
890-7515-22	CS - 22	Total/NA	Solid	Total BTEX	
890-7515-23	CS - 23	Total/NA	Solid	Total BTEX	
890-7515-24	CS - 24	Total/NA	Solid	Total BTEX	
890-7515-25	CS - 25	Total/NA	Solid	Total BTEX	
890-7515-26	CS - 26	Total/NA	Solid	Total BTEX	
890-7515-27	CS - 27	Total/NA	Solid	Total BTEX	
890-7515-28	CS - 28	Total/NA	Solid	Total BTEX	
890-7515-29	CS - 29	Total/NA	Solid	Total BTEX	
890-7515-30	CS - 30	Total/NA	Solid	Total BTEX	
890-7515-31	CS - 31	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-1	CS - 1	Total/NA	Solid	8015NM Prep	
890-7515-2	CS - 2	Total/NA	Solid	8015NM Prep	
890-7515-3	CS - 3	Total/NA	Solid	8015NM Prep	
890-7515-4	CS - 4	Total/NA	Solid	8015NM Prep	
890-7515-5	CS - 5	Total/NA	Solid	8015NM Prep	
MB 880-98967/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98967/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98967/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 98968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-6	CS - 6	Total/NA	Solid	8015NM Prep	
890-7515-7	CS - 7	Total/NA	Solid	8015NM Prep	
890-7515-8	CS - 8	Total/NA	Solid	8015NM Prep	
890-7515-9	CS - 9	Total/NA	Solid	8015NM Prep	
890-7515-10	CS - 10	Total/NA	Solid	8015NM Prep	
890-7515-11	CS - 11	Total/NA	Solid	8015NM Prep	
890-7515-12	CS - 12	Total/NA	Solid	8015NM Prep	
890-7515-13	CS - 13	Total/NA	Solid	8015NM Prep	
890-7515-14	CS - 14	Total/NA	Solid	8015NM Prep	
890-7515-15	CS - 15	Total/NA	Solid	8015NM Prep	
890-7515-16	CS - 16	Total/NA	Solid	8015NM Prep	
890-7515-17	CS - 17	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

GC Semi VOA (Continued)

Prep Batch: 98968 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-18	CS - 18	Total/NA	Solid	8015NM Prep	
890-7515-19	CS - 19	Total/NA	Solid	8015NM Prep	
890-7515-20	CS - 20	Total/NA	Solid	8015NM Prep	
890-7515-21	CS - 21	Total/NA	Solid	8015NM Prep	
890-7515-22	CS - 22	Total/NA	Solid	8015NM Prep	
890-7515-23	CS - 23	Total/NA	Solid	8015NM Prep	
890-7515-24	CS - 24	Total/NA	Solid	8015NM Prep	
890-7515-25	CS - 25	Total/NA	Solid	8015NM Prep	
MB 880-98968/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98968/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98968/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7515-6 MS	CS - 6	Total/NA	Solid	8015NM Prep	
890-7515-6 MSD	CS - 6	Total/NA	Solid	8015NM Prep	

Prep Batch: 98970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-26	CS - 26	Total/NA	Solid	8015NM Prep	
890-7515-27	CS - 27	Total/NA	Solid	8015NM Prep	
890-7515-28	CS - 28	Total/NA	Solid	8015NM Prep	
890-7515-29	CS - 29	Total/NA	Solid	8015NM Prep	
890-7515-30	CS - 30	Total/NA	Solid	8015NM Prep	
890-7515-31	CS - 31	Total/NA	Solid	8015NM Prep	
MB 880-98970/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98970/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98970/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7515-26 MS	CS - 26	Total/NA	Solid	8015NM Prep	
890-7515-26 MSD	CS - 26	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-6	CS - 6	Total/NA	Solid	8015B NM	98968
890-7515-7	CS - 7	Total/NA	Solid	8015B NM	98968
890-7515-8	CS - 8	Total/NA	Solid	8015B NM	98968
890-7515-9	CS - 9	Total/NA	Solid	8015B NM	98968
890-7515-10	CS - 10	Total/NA	Solid	8015B NM	98968
890-7515-11	CS - 11	Total/NA	Solid	8015B NM	98968
890-7515-12	CS - 12	Total/NA	Solid	8015B NM	98968
890-7515-13	CS - 13	Total/NA	Solid	8015B NM	98968
890-7515-14	CS - 14	Total/NA	Solid	8015B NM	98968
890-7515-15	CS - 15	Total/NA	Solid	8015B NM	98968
890-7515-16	CS - 16	Total/NA	Solid	8015B NM	98968
890-7515-17	CS - 17	Total/NA	Solid	8015B NM	98968
890-7515-18	CS - 18	Total/NA	Solid	8015B NM	98968
890-7515-19	CS - 19	Total/NA	Solid	8015B NM	98968
890-7515-20	CS - 20	Total/NA	Solid	8015B NM	98968
890-7515-21	CS - 21	Total/NA	Solid	8015B NM	98968
890-7515-22	CS - 22	Total/NA	Solid	8015B NM	98968
890-7515-23	CS - 23	Total/NA	Solid	8015B NM	98968
890-7515-24	CS - 24	Total/NA	Solid	8015B NM	98968
890-7515-25	CS - 25	Total/NA	Solid	8015B NM	98968
MB 880-98968/1-A	Method Blank	Total/NA	Solid	8015B NM	98968

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

GC Semi VOA (Continued)

Analysis Batch: 99128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-98968/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98968
LCSD 880-98968/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98968
890-7515-6 MS	CS - 6	Total/NA	Solid	8015B NM	98968
890-7515-6 MSD	CS - 6	Total/NA	Solid	8015B NM	98968

Analysis Batch: 99294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-26	CS - 26	Total/NA	Solid	8015B NM	98970
890-7515-27	CS - 27	Total/NA	Solid	8015B NM	98970
890-7515-28	CS - 28	Total/NA	Solid	8015B NM	98970
890-7515-29	CS - 29	Total/NA	Solid	8015B NM	98970
890-7515-30	CS - 30	Total/NA	Solid	8015B NM	98970
890-7515-31	CS - 31	Total/NA	Solid	8015B NM	98970
MB 880-98970/1-A	Method Blank	Total/NA	Solid	8015B NM	98970
LCS 880-98970/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98970
LCSD 880-98970/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98970
890-7515-26 MS	CS - 26	Total/NA	Solid	8015B NM	98970
890-7515-26 MSD	CS - 26	Total/NA	Solid	8015B NM	98970

Analysis Batch: 99300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-1	CS - 1	Total/NA	Solid	8015B NM	98967
890-7515-2	CS - 2	Total/NA	Solid	8015B NM	98967
890-7515-3	CS - 3	Total/NA	Solid	8015B NM	98967
890-7515-4	CS - 4	Total/NA	Solid	8015B NM	98967
890-7515-5	CS - 5	Total/NA	Solid	8015B NM	98967
MB 880-98967/1-A	Method Blank	Total/NA	Solid	8015B NM	98967
LCS 880-98967/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98967
LCSD 880-98967/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98967

Analysis Batch: 99321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-1	CS - 1	Total/NA	Solid	8015 NM	
890-7515-2	CS - 2	Total/NA	Solid	8015 NM	
890-7515-3	CS - 3	Total/NA	Solid	8015 NM	
890-7515-4	CS - 4	Total/NA	Solid	8015 NM	
890-7515-5	CS - 5	Total/NA	Solid	8015 NM	
890-7515-6	CS - 6	Total/NA	Solid	8015 NM	
890-7515-7	CS - 7	Total/NA	Solid	8015 NM	
890-7515-8	CS - 8	Total/NA	Solid	8015 NM	
890-7515-9	CS - 9	Total/NA	Solid	8015 NM	
890-7515-10	CS - 10	Total/NA	Solid	8015 NM	
890-7515-11	CS - 11	Total/NA	Solid	8015 NM	
890-7515-12	CS - 12	Total/NA	Solid	8015 NM	
890-7515-13	CS - 13	Total/NA	Solid	8015 NM	
890-7515-14	CS - 14	Total/NA	Solid	8015 NM	
890-7515-15	CS - 15	Total/NA	Solid	8015 NM	
890-7515-16	CS - 16	Total/NA	Solid	8015 NM	
890-7515-17	CS - 17	Total/NA	Solid	8015 NM	
890-7515-18	CS - 18	Total/NA	Solid	8015 NM	
890-7515-19	CS - 19	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

GC Semi VOA (Continued)

Analysis Batch: 99321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-20	CS - 20	Total/NA	Solid	8015 NM	
890-7515-21	CS - 21	Total/NA	Solid	8015 NM	
890-7515-22	CS - 22	Total/NA	Solid	8015 NM	
890-7515-23	CS - 23	Total/NA	Solid	8015 NM	
890-7515-24	CS - 24	Total/NA	Solid	8015 NM	
890-7515-25	CS - 25	Total/NA	Solid	8015 NM	
890-7515-26	CS - 26	Total/NA	Solid	8015 NM	
890-7515-27	CS - 27	Total/NA	Solid	8015 NM	
890-7515-28	CS - 28	Total/NA	Solid	8015 NM	
890-7515-29	CS - 29	Total/NA	Solid	8015 NM	
890-7515-30	CS - 30	Total/NA	Solid	8015 NM	
890-7515-31	CS - 31	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-14	CS - 14	Soluble	Solid	DI Leach	
890-7515-15	CS - 15	Soluble	Solid	DI Leach	
890-7515-16	CS - 16	Soluble	Solid	DI Leach	
890-7515-17	CS - 17	Soluble	Solid	DI Leach	
890-7515-18	CS - 18	Soluble	Solid	DI Leach	
890-7515-19	CS - 19	Soluble	Solid	DI Leach	
890-7515-20	CS - 20	Soluble	Solid	DI Leach	
890-7515-21	CS - 21	Soluble	Solid	DI Leach	
890-7515-22	CS - 22	Soluble	Solid	DI Leach	
890-7515-23	CS - 23	Soluble	Solid	DI Leach	
890-7515-24	CS - 24	Soluble	Solid	DI Leach	
890-7515-25	CS - 25	Soluble	Solid	DI Leach	
890-7515-26	CS - 26	Soluble	Solid	DI Leach	
890-7515-27	CS - 27	Soluble	Solid	DI Leach	
890-7515-28	CS - 28	Soluble	Solid	DI Leach	
890-7515-29	CS - 29	Soluble	Solid	DI Leach	
890-7515-30	CS - 30	Soluble	Solid	DI Leach	
890-7515-31	CS - 31	Soluble	Solid	DI Leach	
MB 880-99078/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99078/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99078/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7515-14 MS	CS - 14	Soluble	Solid	DI Leach	
890-7515-14 MSD	CS - 14	Soluble	Solid	DI Leach	
890-7515-24 MS	CS - 24	Soluble	Solid	DI Leach	
890-7515-24 MSD	CS - 24	Soluble	Solid	DI Leach	

Analysis Batch: 99088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-14	CS - 14	Soluble	Solid	300.0	99078
890-7515-15	CS - 15	Soluble	Solid	300.0	99078
890-7515-16	CS - 16	Soluble	Solid	300.0	99078
890-7515-17	CS - 17	Soluble	Solid	300.0	99078
890-7515-18	CS - 18	Soluble	Solid	300.0	99078
890-7515-19	CS - 19	Soluble	Solid	300.0	99078

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

HPLC/IC (Continued)

Analysis Batch: 99088 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-20	CS - 20	Soluble	Solid	300.0	99078
890-7515-21	CS - 21	Soluble	Solid	300.0	99078
890-7515-22	CS - 22	Soluble	Solid	300.0	99078
890-7515-23	CS - 23	Soluble	Solid	300.0	99078
890-7515-24	CS - 24	Soluble	Solid	300.0	99078
890-7515-25	CS - 25	Soluble	Solid	300.0	99078
890-7515-26	CS - 26	Soluble	Solid	300.0	99078
890-7515-27	CS - 27	Soluble	Solid	300.0	99078
890-7515-28	CS - 28	Soluble	Solid	300.0	99078
890-7515-29	CS - 29	Soluble	Solid	300.0	99078
890-7515-30	CS - 30	Soluble	Solid	300.0	99078
890-7515-31	CS - 31	Soluble	Solid	300.0	99078
MB 880-99078/1-A	Method Blank	Soluble	Solid	300.0	99078
LCS 880-99078/2-A	Lab Control Sample	Soluble	Solid	300.0	99078
LCSD 880-99078/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99078
890-7515-14 MS	CS - 14	Soluble	Solid	300.0	99078
890-7515-14 MSD	CS - 14	Soluble	Solid	300.0	99078
890-7515-24 MS	CS - 24	Soluble	Solid	300.0	99078
890-7515-24 MSD	CS - 24	Soluble	Solid	300.0	99078

Leach Batch: 99155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-1	CS - 1	Soluble	Solid	DI Leach	
890-7515-2	CS - 2	Soluble	Solid	DI Leach	
890-7515-3	CS - 3	Soluble	Solid	DI Leach	
890-7515-4	CS - 4	Soluble	Solid	DI Leach	
890-7515-5	CS - 5	Soluble	Solid	DI Leach	
890-7515-6	CS - 6	Soluble	Solid	DI Leach	
890-7515-7	CS - 7	Soluble	Solid	DI Leach	
890-7515-8	CS - 8	Soluble	Solid	DI Leach	
890-7515-9	CS - 9	Soluble	Solid	DI Leach	
890-7515-10	CS - 10	Soluble	Solid	DI Leach	
890-7515-11	CS - 11	Soluble	Solid	DI Leach	
890-7515-12	CS - 12	Soluble	Solid	DI Leach	
890-7515-13	CS - 13	Soluble	Solid	DI Leach	
MB 880-99155/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99155/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99155/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7515-4 MS	CS - 4	Soluble	Solid	DI Leach	
890-7515-4 MSD	CS - 4	Soluble	Solid	DI Leach	

Analysis Batch: 99159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-1	CS - 1	Soluble	Solid	300.0	99155
890-7515-2	CS - 2	Soluble	Solid	300.0	99155
890-7515-3	CS - 3	Soluble	Solid	300.0	99155
890-7515-4	CS - 4	Soluble	Solid	300.0	99155
890-7515-5	CS - 5	Soluble	Solid	300.0	99155
890-7515-6	CS - 6	Soluble	Solid	300.0	99155
890-7515-7	CS - 7	Soluble	Solid	300.0	99155
890-7515-8	CS - 8	Soluble	Solid	300.0	99155

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

HPLC/IC (Continued)

Analysis Batch: 99159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7515-9	CS - 9	Soluble	Solid	300.0	99155
890-7515-10	CS - 10	Soluble	Solid	300.0	99155
890-7515-11	CS - 11	Soluble	Solid	300.0	99155
890-7515-12	CS - 12	Soluble	Solid	300.0	99155
890-7515-13	CS - 13	Soluble	Solid	300.0	99155
MB 880-99155/1-A	Method Blank	Soluble	Solid	300.0	99155
LCS 880-99155/2-A	Lab Control Sample	Soluble	Solid	300.0	99155
LCSD 880-99155/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99155
890-7515-4 MS	CS - 4	Soluble	Solid	300.0	99155
890-7515-4 MSD	CS - 4	Soluble	Solid	300.0	99155

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 1
Date Collected: 12/24/24 08:30
Date Received: 12/26/24 08:12

Lab Sample ID: 890-7515-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 11:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 11:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	01/03/25 01:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98967	12/27/24 14:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/03/25 01:41	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 19:39	SMC	EET MID

Client Sample ID: CS - 2
Date Collected: 12/24/24 08:35
Date Received: 12/26/24 08:12

Lab Sample ID: 890-7515-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 12:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 12:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	01/03/25 01:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98967	12/27/24 14:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/03/25 01:57	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 19:44	SMC	EET MID

Client Sample ID: CS - 3
Date Collected: 12/24/24 08:40
Date Received: 12/26/24 08:12

Lab Sample ID: 890-7515-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	01/03/25 02:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98967	12/27/24 14:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/03/25 02:13	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 19:50	SMC	EET MID

Client Sample ID: CS - 4
Date Collected: 12/24/24 08:45
Date Received: 12/26/24 08:12

Lab Sample ID: 890-7515-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 12:56	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 4

Lab Sample ID: 890-7515-4

Date Collected: 12/24/24 08:45

Matrix: Solid

Date Received: 12/26/24 08:12

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			99321	01/03/25 02:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98967	12/27/24 14:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/03/25 02:28	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 19:56	SMC	EET MID

Client Sample ID: CS - 5

Lab Sample ID: 890-7515-5

Date Collected: 12/24/24 08:50

Matrix: Solid

Date Received: 12/26/24 08:12

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 13:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	01/03/25 02:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98967	12/27/24 14:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/03/25 02:45	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 20:14	SMC	EET MID

Client Sample ID: CS - 6

Lab Sample ID: 890-7515-6

Date Collected: 12/24/24 08:55

Matrix: Solid

Date Received: 12/26/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 13:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 13:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 11:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 11:17	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 20:20	SMC	EET MID

Client Sample ID: CS - 7

Lab Sample ID: 890-7515-7

Date Collected: 12/24/24 09:00

Matrix: Solid

Date Received: 12/26/24 08:12

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 13:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 12:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 12:18	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 7

Lab Sample ID: 890-7515-7

Date Collected: 12/24/24 09:00

Matrix: Solid

Date Received: 12/26/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 20:37	SMC	EET MID

Client Sample ID: CS - 8

Lab Sample ID: 890-7515-8

Date Collected: 12/24/24 09:05

Matrix: Solid

Date Received: 12/26/24 08:12

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 14:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 14:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 12:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 12:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 20:43	SMC	EET MID

Client Sample ID: CS - 9

Lab Sample ID: 890-7515-9

Date Collected: 12/24/24 09:10

Matrix: Solid

Date Received: 12/26/24 08:12

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 14:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 12:59	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 20:49	SMC	EET MID

Client Sample ID: CS - 10

Lab Sample ID: 890-7515-10

Date Collected: 12/24/24 09:15

Matrix: Solid

Date Received: 12/26/24 08:12

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 14:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 14:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 13:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 20:55	SMC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 11

Lab Sample ID: 890-7515-11

Date Collected: 12/24/24 09:20

Matrix: Solid

Date Received: 12/26/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 16:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 16:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 13:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 13:41	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 21:01	SMC	EET MID

Client Sample ID: CS - 12

Lab Sample ID: 890-7515-12

Date Collected: 12/24/24 09:25

Matrix: Solid

Date Received: 12/26/24 08:12

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 16:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 16:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 14:01	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 21:07	SMC	EET MID

Client Sample ID: CS - 13

Lab Sample ID: 890-7515-13

Date Collected: 12/24/24 09:30

Matrix: Solid

Date Received: 12/26/24 08:12

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 17:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 14:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 14:22	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99155	12/31/24 09:19	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99159	12/31/24 21:13	SMC	EET MID

Client Sample ID: CS - 14

Lab Sample ID: 890-7515-14

Date Collected: 12/24/24 09:35

Matrix: Solid

Date Received: 12/26/24 08:12

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 17:35	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 14

Lab Sample ID: 890-7515-14

Date Collected: 12/24/24 09:35

Matrix: Solid

Date Received: 12/26/24 08:12

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			99321	12/31/24 14:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 14:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 19:14	SMC	EET MID

Client Sample ID: CS - 15

Lab Sample ID: 890-7515-15

Date Collected: 12/24/24 09:40

Matrix: Solid

Date Received: 12/26/24 08:12

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 17:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 15:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 15:02	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 19:37	SMC	EET MID

Client Sample ID: CS - 16

Lab Sample ID: 890-7515-16

Date Collected: 12/24/24 09:45

Matrix: Solid

Date Received: 12/26/24 08:12

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 18:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 18:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 16:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 16:04	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 19:45	SMC	EET MID

Client Sample ID: CS - 17

Lab Sample ID: 890-7515-17

Date Collected: 12/24/24 09:50

Matrix: Solid

Date Received: 12/26/24 08:12

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 18:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 16:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 16:24	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 17

Date Collected: 12/24/24 09:50

Date Received: 12/26/24 08:12

Lab Sample ID: 890-7515-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 19:53	SMC	EET MID

Client Sample ID: CS - 18

Date Collected: 12/24/24 09:55

Date Received: 12/26/24 08:12

Lab Sample ID: 890-7515-18

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	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 18:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 18:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 16:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 16:44	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 20:01	SMC	EET MID

Client Sample ID: CS - 19

Date Collected: 12/24/24 10:00

Date Received: 12/26/24 08:12

Lab Sample ID: 890-7515-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 19:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 19:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 17:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 17:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 20:25	SMC	EET MID

Client Sample ID: CS - 20

Date Collected: 12/24/24 10:05

Date Received: 12/26/24 08:12

Lab Sample ID: 890-7515-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	98916	12/27/24 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98926	12/27/24 19:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/27/24 19:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 17:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 17:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 20:33	SMC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 21

Lab Sample ID: 890-7515-21

Date Collected: 12/24/24 10:10

Matrix: Solid

Date Received: 12/26/24 08:12

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	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 12:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/30/24 12:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 17:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 17:46	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 20:40	SMC	EET MID

Client Sample ID: CS - 22

Lab Sample ID: 890-7515-22

Date Collected: 12/24/24 10:15

Matrix: Solid

Date Received: 12/26/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 12:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/30/24 12:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 18:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 18:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 20:48	SMC	EET MID

Client Sample ID: CS - 23

Lab Sample ID: 890-7515-23

Date Collected: 12/24/24 10:20

Matrix: Solid

Date Received: 12/26/24 08:12

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	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 13:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/30/24 13:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 18:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 18:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 20:56	SMC	EET MID

Client Sample ID: CS - 24

Lab Sample ID: 890-7515-24

Date Collected: 12/24/24 10:25

Matrix: Solid

Date Received: 12/26/24 08:12

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	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/30/24 13:34	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 24

Lab Sample ID: 890-7515-24

Date Collected: 12/24/24 10:25

Matrix: Solid

Date Received: 12/26/24 08:12

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			99321	12/31/24 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 18:48	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 21:04	SMC	EET MID

Client Sample ID: CS - 25

Lab Sample ID: 890-7515-25

Date Collected: 12/24/24 10:30

Matrix: Solid

Date Received: 12/26/24 08:12

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	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 13:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/30/24 13:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	12/31/24 19:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98968	12/27/24 14:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 19:08	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 21:28	SMC	EET MID

Client Sample ID: CS - 26

Lab Sample ID: 890-7515-26

Date Collected: 12/24/24 10:35

Matrix: Solid

Date Received: 12/26/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 14:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/30/24 14:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	01/02/25 11:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98970	12/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99294	01/02/25 11:16	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 21:35	SMC	EET MID

Client Sample ID: CS - 27

Lab Sample ID: 890-7515-27

Date Collected: 12/24/24 10:40

Matrix: Solid

Date Received: 12/26/24 08:12

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	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/30/24 14:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	01/02/25 13:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98970	12/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99294	01/02/25 13:04	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 27

Lab Sample ID: 890-7515-27

Date Collected: 12/24/24 10:40

Matrix: Solid

Date Received: 12/26/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 21:59	SMC	EET MID

Client Sample ID: CS - 28

Lab Sample ID: 890-7515-28

Date Collected: 12/24/24 10:45

Matrix: Solid

Date Received: 12/26/24 08:12

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	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 14:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/30/24 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	01/02/25 13:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98970	12/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99294	01/02/25 13:18	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 22:07	SMC	EET MID

Client Sample ID: CS - 29

Lab Sample ID: 890-7515-29

Date Collected: 12/24/24 10:50

Matrix: Solid

Date Received: 12/26/24 08:12

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	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 15:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/30/24 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	01/02/25 13:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98970	12/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99294	01/02/25 13:32	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 22:15	SMC	EET MID

Client Sample ID: CS - 30

Lab Sample ID: 890-7515-30

Date Collected: 12/24/24 10:55

Matrix: Solid

Date Received: 12/26/24 08:12

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	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 15:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/30/24 15:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	01/02/25 13:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98970	12/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99294	01/02/25 13:49	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 22:23	SMC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Client Sample ID: CS - 31
Date Collected: 12/24/24 11:00
Date Received: 12/26/24 08:12

Lab Sample ID: 890-7515-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 17:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99121	12/30/24 17:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			99321	01/02/25 14:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98970	12/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99294	01/02/25 14:05	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 22:31	SMC	EET MID

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

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: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

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: GAUCHO BOOSTER STATION

Job ID: 890-7515-1
SDG: 2615

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7515-1	CS - 1	Solid	12/24/24 08:30	12/26/24 08:12	1
890-7515-2	CS - 2	Solid	12/24/24 08:35	12/26/24 08:12	1
890-7515-3	CS - 3	Solid	12/24/24 08:40	12/26/24 08:12	1
890-7515-4	CS - 4	Solid	12/24/24 08:45	12/26/24 08:12	1
890-7515-5	CS - 5	Solid	12/24/24 08:50	12/26/24 08:12	1
890-7515-6	CS - 6	Solid	12/24/24 08:55	12/26/24 08:12	0.5
890-7515-7	CS - 7	Solid	12/24/24 09:00	12/26/24 08:12	0.5
890-7515-8	CS - 8	Solid	12/24/24 09:05	12/26/24 08:12	0.5
890-7515-9	CS - 9	Solid	12/24/24 09:10	12/26/24 08:12	2
890-7515-10	CS - 10	Solid	12/24/24 09:15	12/26/24 08:12	2
890-7515-11	CS - 11	Solid	12/24/24 09:20	12/26/24 08:12	2
890-7515-12	CS - 12	Solid	12/24/24 09:25	12/26/24 08:12	2
890-7515-13	CS - 13	Solid	12/24/24 09:30	12/26/24 08:12	2
890-7515-14	CS - 14	Solid	12/24/24 09:35	12/26/24 08:12	2
890-7515-15	CS - 15	Solid	12/24/24 09:40	12/26/24 08:12	2
890-7515-16	CS - 16	Solid	12/24/24 09:45	12/26/24 08:12	2
890-7515-17	CS - 17	Solid	12/24/24 09:50	12/26/24 08:12	2
890-7515-18	CS - 18	Solid	12/24/24 09:55	12/26/24 08:12	2
890-7515-19	CS - 19	Solid	12/24/24 10:00	12/26/24 08:12	2
890-7515-20	CS - 20	Solid	12/24/24 10:05	12/26/24 08:12	2
890-7515-21	CS - 21	Solid	12/24/24 10:10	12/26/24 08:12	2
890-7515-22	CS - 22	Solid	12/24/24 10:15	12/26/24 08:12	2
890-7515-23	CS - 23	Solid	12/24/24 10:20	12/26/24 08:12	0.5
890-7515-24	CS - 24	Solid	12/24/24 10:25	12/26/24 08:12	0.5
890-7515-25	CS - 25	Solid	12/24/24 10:30	12/26/24 08:12	0.5
890-7515-26	CS - 26	Solid	12/24/24 10:35	12/26/24 08:12	0.5
890-7515-27	CS - 27	Solid	12/24/24 10:40	12/26/24 08:12	0.5
890-7515-28	CS - 28	Solid	12/24/24 10:45	12/26/24 08:12	0.5
890-7515-29	CS - 29	Solid	12/24/24 10:50	12/26/24 08:12	1
890-7515-30	CS - 30	Solid	12/24/24 10:55	12/26/24 08:12	0.5
890-7515-31	CS - 31	Solid	12/24/24 11:00	12/26/24 08:12	0.5



Environment Testing
Xenco

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 4

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPX Permian LLC
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmorenoc@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:	Gaucha Booster Station	Turn Around		Pres. Code ANALYSIS REQUEST 890-7515 Chain of Custody	Preservative Codes None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Project Number:	2615	☒ Routine ☐ Rush			
Project Location:	Lea County, NM	Due Date:	5 Day TAT		
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm			
PO #:		Temp Blank:	(Yes/No)	Parameters	
SAMPLE RECEIPT	Temp Blank: (Yes/No)	Wet Ice: (Yes/No)			
Samples Received Intact:	(Yes/No)	Thermometer ID:	INNOV7		
Cooler Custody Seals:	Yes No	Correction Factor:	-0.2		
Sample Custody Seals:	Yes No	Temperature Reading:	0.8		
Total Containers:		Corrected Temperature:	0.8		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp
CS - 1	S	12.24.24	8:30	1	Comp
CS - 2	S	12.24.24	8:35	1	Comp
CS - 3	S	12.24.24	8:40	1	Comp
CS - 4	S	12.24.24	8:45	1	Comp
CS - 5	S	12.24.24	8:50	1	Comp
CS - 6	S	12.24.24	8:55	0.5	Comp
CS - 7	S	12.24.24	9:00	0.5	Comp
CS - 8	S	12.24.24	9:05	0.5	Comp
CS - 9	S	12.24.24	9:10	2	Comp
TPH -NM	X	X	X	X	X
Chloride-NM	X	X	X	X	X
BTEX-NM	X	X	X	X	X
Hold					
24 Hr Rush					
Sample Comments	Incident Number nAPP2430237976				

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 SnO ₂ Na Si Ti Sn H V Zn
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
		12/26/14			



Environment Testing
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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 2 of 4

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPX Permian LLC
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:	Gaucha Booster Station	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	2615	Due Date:	5 Day TAT		
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Gilbert Moreno				
PO #:					
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No			
Samples Received Intact:	Yes ☒ No ☒	Thermometer ID:	140000		
Cooler Custody Seals:	Yes ☒ No ☒	Correction Factor:	-0.2		
Sample Custody Seals:	Yes ☒ No ☒	Temperature Reading:	0.8		
Total Containers:		Corrected Temperature:	10.6		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	ANALYSIS REQUEST	Preservative Codes	Sample Comments
CS - 10	S	12.24.24	9:15	2	Comp	1	X	X	X				None: NO	DI Water: H ₂ O
CS - 11	S	12.24.24	9:20	2	Comp	1	X	X	X				Cool: Cool	MeOH: Me
CS - 12	S	12.24.24	9:25	2	Comp	1	X	X	X				HCL: HC	HNO ₃ : HN
CS - 13	S	12.24.24	9:30	2	Comp	1	X	X	X				H ₂ SO ₄ : H ₂	NaOH: Na
CS - 14	S	12.24.24	9:35	2	Comp	1	X	X	X				H ₃ PO ₄ : HP	
CS - 15	S	12.24.24	9:40	2	Comp	1	X	X	X				NaHSO ₄ : NABIS	
CS - 16	S	12.24.24	9:45	2	Comp	1	X	X	X				Na ₂ S ₂ O ₃ : NaSO ₃	
CS - 17	S	12.24.24	9:50	2	Comp	1	X	X	X				Zn Acetate+NaOH: Zn	
CS - 18	S	12.24.24	9:55	2	Comp	1	X	X	X				NaOH+Ascorbic Acid: SAPC	

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Pt Mo Mn Ni K S Ag Si O ₂ Na Se Ti Sn U V Zn
Hq: 1631 / 245.1 / 7470 / 7471				

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
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Environment Testing
Xenco

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 3 of 4

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPX Permian LLC
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmorano@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:	Gaucha Booster Station	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number:	2615															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
PO #:																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:	Turnac2													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:	0.8													Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:	0.6													NaOH+Ascorbic Acid: SACP	
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	12.24.24	10:00	2	Comp	1	X	X	X								Incident Number
CS - 20	S	12.24.24	10:05	2	Comp	1	X	X	X								nAPP2430237976
CS - 21	S	12.24.24	10:10	2	Comp	1	X	X	X								
CS - 22	S	12.24.24	10:15	2	Comp	1	X	X	X								
CS - 23	S	12.24.24	10:20	0.5	Comp	1	X	X	X								
CS - 24	S	12.24.24	10:25	0.5	Comp	1	X	X	X								
CS - 25	S	12.24.24	10:30	0.5	Comp	1	X	X	X								
CS - 26	S	12.24.24	10:35	0.5	Comp	1	X	X	X								
CS - 27	S	12.24.24	10:40	0.5	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 Mn Mo Ni K Se Ag SO₂ Na S Ti Sn U V Zn

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>Carfort</i>	<i>Stuart</i>	2			



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: _____

www.xenco.com Page 4 of 4

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPX Permian LLC
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:	Gaucha Booster Station	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes				
Project Number:	2615	Due Date:	5 Day TAT															None: NO	DI Water: H ₂ O			
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm																Cool: Cool	MeOH: Me			
Sampler's Name:	Gilbert Moreno																	HCL: HC	HNO ₃ : HN			
PO #:																		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 - 28	S	12.24.24	10:45	0.5	Comp	1	X	X	X													Incident Number
CS - 29	S	12.24.24	10:50	1	Comp	1	X	X	X													nAPP2430237976
CS - 30	S	12.24.24	10:55	0.5	Comp	1	X	X	X													
CS - 31	S	12.24.24	11:00	0.5	Comp	1	X	X	X													

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Cr Co Cu Fe Pb Mn Mo Ni K Se Ag Sn Pb Zn
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Carlsbad	Burns	2			
		4			
		6			

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)						Sample:	Lab PM:	COC No:									
Client Contact:						N/A	Teel, Brianna	890-4458.1									
Shipping/Receiving						Phone:	E-Mail:	Page: 1 of 4									
Company:						Brianna Teel@et.eurofins.com	Accreditations Required (See note)	Job #:									
Eurofins Environment Testing South Cent						NE LAP - Texas	State of Origin:	890-7515-1									
Address:						Due Date Requested:	Preservation Codes:										
1211 W. Florida Ave.						1/1/2025											
City:						TAT Requested (days):	Analysis Requested										
Midland						N/A											
State, Zip:																	
TX, 79701																	
Phone:						PO #:											
432-704-5440(Tel)						N/A											
Email:						WO #:											
N/A						N/A											
Project Name:						Project #:											
GAUCHO BOOSTER STATION						88000480											
Site:						SSOW#:											
N/A						N/A											
Other:																	
N/A																	
Special Instructions/Note:																	
Sample Identification - Client ID (Lab ID)																	
CS - 1 (890-7515-1)						12/24/24	08:30	G	Solid	X	X	X	X	X	X	Total Number of containers	1
CS - 2 (890-7515-2)						12/24/24	08:35	G	Solid	X	X	X	X	X	X	X	1
CS - 3 (890-7515-3)						12/24/24	08:40	G	Solid	X	X	X	X	X	X	X	1
CS - 4 (890-7515-4)						12/24/24	08:45	G	Solid	X	X	X	X	X	X	X	1
CS - 5 (890-7515-5)						12/24/24	08:50	G	Solid	X	X	X	X	X	X	X	1
CS - 6 (890-7515-6)						12/24/24	08:55	G	Solid	X	X	X	X	X	X	X	1
CS - 7 (890-7515-7)						12/24/24	09:00	G	Solid	X	X	X	X	X	X	X	1
CS - 8 (890-7515-8)						12/24/24	09:05	G	Solid	X	X	X	X	X	X	X	1
CS - 9 (890-7515-9)						12/24/24	09:10	G	Solid	X	X	X	X	X	X	X	1
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																	
Possible Hazard Identification																	
Unconfirmed																	
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Special Instructions/QC Requirements:																	
Empty Kit Relinquished by: Date: Time: Method of Shipment:																	
Relinquished by: Received by: Date/Time: Company:																	
Relinquished by: Received by: Date/Time: Company:																	
Relinquished by: Received by: Date/Time: Company:																	
Cooler Temperature(s) °C and Other Remarks:																	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No																	

- 1
- 2
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- 12
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- 14

Eurofins Carlsbad
1089 N Canal St
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact:	N/A	Teel, Brianna	N/A		890-4458.2
Shipping/Receiving	Phone: N/A	E-Mail: Brianna.Teel@eurofins.com	State of Origin: Texas	Page: Page 2 of 4	
Company:	Eurofins Environment Testing South Cent	Accreditations Required (See note): NELAP - Texas		Job #: 890-7515-1	
Address:	1211 W. Florida Ave.	Due Date Requested: 1/1/2025	Preservation Codes:		
City:	Midland	TAT Requested (days): N/A	Analysis Requested		
State, Zip:	TX, 79701				
Phone:	432-704-5440(Tel)	PO #:			
Email:	N/A	WO #:			
Project Name:	GAUCHO BOOSTER STATION	Project #:			
Site:	N/A	SSOW#:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weaver, Sealed, Overstool, BTT-Tissue, A=Lab)
CS - 10 (890-7515-10)		12/24/24	09:15	G	Solid
CS - 11 (890-7515-11)		12/24/24	09:20	G	Solid
CS - 12 (890-7515-12)		12/24/24	09:25	G	Solid
CS - 13 (890-7515-13)		12/24/24	09:30	G	Solid
CS - 14 (890-7515-14)		12/24/24	09:35	G	Solid
CS - 15 (890-7515-15)		12/24/24	09:40	G	Solid
CS - 16 (890-7515-16)		12/24/24	09:45	G	Solid
CS - 17 (890-7515-17)		12/24/24	09:50	G	Solid
CS - 18 (890-7515-18)		12/24/24	09:55	G	Solid
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: <i>Brian S</i>		Date/Time: 12/26 16:30	Company:	Received by: <i>BT</i>	
Relinquished by:		Date/Time:	Company:	Received by: <i>Jeddy Partridge</i>	
Relinquished by:		Date/Time:	Company:	Received by:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM:	Carrier Tracking No(s)	COC No:
Client Contact: N/A		Phone: N/A	Teel, Brianna	N/A	890-4458.3
Shipping/Receiving: N/A		E-Mail: Brianna.Teel@eurofins.com	State of Origin: Texas	Page: Page 3 of 4	
Company: Eurofins Environment Testing South Cent		Accreditations Required (See note): NELAP - Texas		Job #: 890-7515-1	Preservation Codes:
Address: 1211 W. Florida Ave.		Due Date Requested: 1/1/2025	Analysis Requested		
City: Midland	State Zip: TX, 79701	TAT Requested (days): N/A			
Phone: 432-704-5440(Tel)	PO #: N/A				
Email: N/A	WO #: N/A				
Project Name: GAUCHO BOOSTER STATION	Project #: 88000480				
Site: N/A	SSOW#: N/A				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=overstool, BT=trace, A=nd)
CS - 19 (890-7515-19)	12/24/24	10:00	G	Solid	
CS - 20 (890-7515-20)	12/24/24	10:05	G	Solid	
CS - 21 (890-7515-21)	12/24/24	10:10	G	Solid	
CS - 22 (890-7515-22)	12/24/24	10:15	G	Solid	
CS - 23 (890-7515-23)	12/24/24	10:20	G	Solid	
CS - 24 (890-7515-24)	12/24/24	10:25	G	Solid	
CS - 25 (890-7515-25)	12/24/24	10:30	G	Solid	
CS - 26 (890-7515-26)	12/24/24	10:35	G	Solid	
CS - 27 (890-7515-27)	12/24/24	10:40	G	Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
				☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Empty Kit Relinquished by: _____		Date: _____	Time: _____	Method of Shipment: _____	
Relinquished by: _____		Date/Time: _____	Company: _____	Received by: _____	
Relinquished by: _____		Date/Time: _____	Company: _____	Received by: _____	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____	

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:		Carrier Tracking No(s):		COC No:							
Client Contact:		N/A	Teel, Brianna		N/A		890-4458.4							
Shipping/Receiving:		Phone:	E-Mail:		State of Origin:		Page:							
Eurofins Environment Testing South Cent		N/A	Brianna.Teel@eurofins.com		Texas		Page 4 of 4							
Address:		Due Date Requested:	Accreditations Required (See note):		Job #:		Preservation Codes:							
1211 W. Florida Ave.		1/1/2025	NELAP - Texas		890-7515-1									
City:	Midland	TAT Requested (days):	Analysis Requested											
State, Zip:	TX, 79701	N/A												
Phone:	432-704-5440(Tel)	PO #:												
Email:	N/A	WO #:												
Project Name:	GAUCHO BOOSTER STATION	Project #:												
Site:	N/A	88000480												
		SSOW#:												
		N/A												
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Organic, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_NM/8015NM_S_Prep Full TPH	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
CS - 28 (890-7515-28)		12/24/24	10:45	G	Solid		X	X	X	X	X	X	1	
CS - 29 (890-7515-29)		12/24/24	10:50	G	Solid		X	X	X	X	X	X	1	
CS - 30 (890-7515-30)		12/24/24	10:55	G	Solid		X	X	X	X	X	X	1	
CS - 31 (890-7515-31)		12/24/24	11:00	G	Solid		X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested: I, II, III, IV, Other (specify)														
Primary Deliverable Rank: 2														
Special Instructions/QC Requirements:														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months														
Empty Kit Relinquished by:														
Date/Time: 1/16/25 16:30 Company:														
Relinquished by:														
Date/Time: 12/27/24 0800 Company:														
Relinquished by:														
Date/Time: Company:														
Custody Seals Intact: Custody Seal No.:														
Cooler Temperature(s) °C and Other Remarks:														

Eurofins Carlsbad

Chain of Custody Record



Environment Testing

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Client Information (Sub Contract Lab)		Sampler:	N/A	Lab PM:	Bulles, John
Client Contact:		Phone:	N/A	E-Mail:	John.Bulles@eurofins.com
Shipping/Receiving		Company:	N/A	Accreditations Required (US EPA):	
Eurofins Environment Testing South Central		Due Date Requested:		NELAP - Texas	
Address:		1211 W. Florida Ave.		TAT Requested (days):	
City:		Midland		N/A	
State Zip:		TX, 79701		PO #:	
Phone:		432-704-5440(Tel)		WO #:	
Email:		N/A		Project #:	
Project Name:		N/A		88002020	
N/A		SSOW#:		N/A	
Site:		N/A		Field Filtered Sample (Yes or No)	
N/A		N/A		Perform MS/MSD (Yes or No)	
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=overstool, BT=Tissue, A=Air)
B-133-4 (890-7486-66)	12/16/24	10:30	G	Solid	
B-172-4 (890-7486-137)	12/17/24	17:00	G	Solid	
B-173-4 (890-7486-138)	12/17/24	17:00	G	Solid	
B-174-4 (890-7486-139)	12/17/24	17:00	G	Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Relinquished by: <i>Bulles</i>					
Relinquished by: <i>Bulles</i>					
Relinquished by: <i>Bulles</i>					
Custody Seals Intact: ☐ Yes ☐ No					
Custody Seal No.:					
Cooler Temperature(s) °C and Other Remarks:					

This is 100%
this is 100%
this is 100%
this is 100%

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7515-1

SDG Number: 2615

Login Number: 7515

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7515-1

SDG Number: 2615

Login Number: 7515

List Number: 2

Creator: Lee, Randell

List Source: Eurofins Midland

List Creation: 12/27/24 08:14 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/3/2025 9:43:55 AM

JOB DESCRIPTION

Gaucha Booster Station
2615

JOB NUMBER

890-7516-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

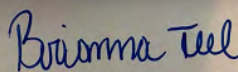
Eurofins Carlsbad

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
1/3/2025 9:43:55 AM

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

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Laboratory Job ID: 890-7516-1
SDG: 2615

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: Gaucho Booster Station

Job ID: 890-7516-1

Job ID: 890-7516-1

Eurofins Carlsbad

Job Narrative 890-7516-1

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 12/26/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-1 (890-7516-1), SW-2 (890-7516-2), SW-3 (890-7516-3) and SW-4 (890-7516-4).

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 sample was outside control limits: SW-1 (890-7516-1). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-99294 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-99294/21).

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 Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99078 and analytical batch 880-99088 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.

The associated samples are: SW-1 (890-7516-1), SW-2 (890-7516-2), (890-7515-A-24-C), (890-7515-A-24-D MS) and (890-7515-A-24-E MSD).

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

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

Client Sample ID: SW-1

Lab Sample ID: 890-7516-1

Date Collected: 12/24/24 11:10

Matrix: Solid

Date Received: 12/26/24 08:00

Sample Depth: 0-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 19:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 19:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 19:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/27/24 09:29	12/30/24 19:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 19:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 09:29	12/30/24 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/27/24 09:29	12/30/24 19:14	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/27/24 09:29	12/30/24 19:14	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			12/30/24 19:14	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			01/02/25 14:33	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		12/27/24 14:33	01/02/25 14:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:33	01/02/25 14:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:33	01/02/25 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/27/24 14:33	01/02/25 14:33	1
o-Terphenyl	69	S1-	70 - 130				12/27/24 14:33	01/02/25 14:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	184		9.96		mg/Kg			12/31/24 22:38	1

Client Sample ID: SW-2

Lab Sample ID: 890-7516-2

Date Collected: 12/24/24 11:15

Matrix: Solid

Date Received: 12/26/24 08:00

Sample Depth: 0-2

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		12/27/24 09:29	12/30/24 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 09:29	12/30/24 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 09:29	12/30/24 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 09:29	12/30/24 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/27/24 09:29	12/30/24 19:35	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

Client Sample ID: SW-2

Lab Sample ID: 890-7516-2

Date Collected: 12/24/24 11:15

Matrix: Solid

Date Received: 12/26/24 08:00

Sample Depth: 0-2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 09:29	12/30/24 19:35	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			12/30/24 19:35	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			01/02/25 14:49	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		12/27/24 14:33	01/02/25 14:49	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/27/24 14:33	01/02/25 14:49	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/27/24 14:33	01/02/25 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				12/27/24 14:33	01/02/25 14:49	1
o-Terphenyl	78		70 - 130				12/27/24 14:33	01/02/25 14:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		9.94		mg/Kg			12/31/24 22:46	1

Client Sample ID: SW-3

Lab Sample ID: 890-7516-3

Date Collected: 12/24/24 11:20

Matrix: Solid

Date Received: 12/26/24 08:00

Sample Depth: 0-2

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		12/27/24 09:29	12/30/24 19:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:29	12/30/24 19:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:29	12/30/24 19:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/27/24 09:29	12/30/24 19:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/27/24 09:29	12/30/24 19:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/27/24 09:29	12/30/24 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/27/24 09:29	12/30/24 19:55	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 09:29	12/30/24 19:55	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			12/30/24 19:55	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			01/02/25 15:04	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

Client Sample ID: SW-3

Lab Sample ID: 890-7516-3

Date Collected: 12/24/24 11:20

Matrix: Solid

Date Received: 12/26/24 08:00

Sample Depth: 0-2

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	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 15:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 15:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/27/24 14:33	01/02/25 15:04	1
o-Terphenyl	70		70 - 130				12/27/24 14:33	01/02/25 15:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		9.90		mg/Kg			01/01/25 02:11	1

Client Sample ID: SW-4

Lab Sample ID: 890-7516-4

Date Collected: 12/24/24 11:25

Matrix: Solid

Date Received: 12/26/24 08:00

Sample Depth: 0-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 20:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 20:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 20:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/27/24 09:29	12/30/24 20:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 09:29	12/30/24 20:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/27/24 09:29	12/30/24 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				12/27/24 09:29	12/30/24 20:16	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/27/24 09:29	12/30/24 20:16	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			12/30/24 20:16	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			01/02/25 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/24 14:33	01/02/25 15:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 14:33	01/02/25 15:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:33	01/02/25 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/27/24 14:33	01/02/25 15:18	1
o-Terphenyl	70		70 - 130				12/27/24 14:33	01/02/25 15:18	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

Client Sample ID: SW-4
Date Collected: 12/24/24 11:25
Date Received: 12/26/24 08:00
Sample Depth: 0-2

Lab Sample ID: 890-7516-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		9.96		mg/Kg			01/01/25 02:35	1

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

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

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)
890-7516-1	SW-1	111	105
890-7516-2	SW-2	120	106
890-7516-3	SW-3	115	106
890-7516-4	SW-4	110	105
LCS 880-98915/1-A	Lab Control Sample	108	104
LCSD 880-98915/2-A	Lab Control Sample Dup	107	103
MB 880-98915/5-A	Method Blank	108	102
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7516-1	SW-1	71	69 S1-
890-7516-2	SW-2	80	78
890-7516-3	SW-3	72	70
890-7516-4	SW-4	72	70
LCS 880-98970/2-A	Lab Control Sample	118	108
LCSD 880-98970/3-A	Lab Control Sample Dup	128	118
MB 880-98970/1-A	Method Blank	92	91
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98915/5-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 09:29	12/30/24 12:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/27/24 09:29	12/30/24 12:11	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/27/24 09:29	12/30/24 12:11	1

Lab Sample ID: LCS 880-98915/1-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08157		mg/Kg		82	70 - 130
Toluene	0.100	0.08119		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.07901		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1593		mg/Kg		80	70 - 130
o-Xylene	0.100	0.08602		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-98915/2-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09210		mg/Kg		92	70 - 130	12	35
Toluene	0.100	0.09059		mg/Kg		91	70 - 130	11	35
Ethylbenzene	0.100	0.08775		mg/Kg		88	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1772		mg/Kg		89	70 - 130	11	35
o-Xylene	0.100	0.09422		mg/Kg		94	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

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

Lab Sample ID: MB 880-98970/1-A

Matrix: Solid

Analysis Batch: 99294

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98970

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		12/27/24 14:33	01/02/25 09:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 09:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:33	01/02/25 09:40	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				12/27/24 14:33	01/02/25 09:40	1
o-Terphenyl	91		70 - 130				12/27/24 14:33	01/02/25 09:40	1

Lab Sample ID: LCS 880-98970/2-A

Matrix: Solid

Analysis Batch: 99294

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	963.1		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	991.1		mg/Kg		99	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	118		70 - 130				
o-Terphenyl	108		70 - 130				

Lab Sample ID: LCSD 880-98970/3-A

Matrix: Solid

Analysis Batch: 99294

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1087		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	1078		mg/Kg		108	70 - 130	8	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	128		70 - 130						
o-Terphenyl	118		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99078/1-A

Matrix: Solid

Analysis Batch: 99088

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			12/31/24 18:50	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-99078/2-A

Matrix: Solid

Analysis Batch: 99088

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.0		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-99078/3-A

Matrix: Solid

Analysis Batch: 99088

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	249.6		mg/Kg		100	90 - 110	1	20

Lab Sample ID: MB 880-99087/1-A

Matrix: Solid

Analysis Batch: 99095

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			12/31/24 23:26	1

Lab Sample ID: LCS 880-99087/2-A

Matrix: Solid

Analysis Batch: 99095

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.1		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-99087/3-A

Matrix: Solid

Analysis Batch: 99095

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	251.9		mg/Kg		101	90 - 110	3	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

GC VOA

Prep Batch: 98915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7516-1	SW-1	Total/NA	Solid	5035	
890-7516-2	SW-2	Total/NA	Solid	5035	
890-7516-3	SW-3	Total/NA	Solid	5035	
890-7516-4	SW-4	Total/NA	Solid	5035	
MB 880-98915/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98915/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98915/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 99020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7516-1	SW-1	Total/NA	Solid	8021B	98915
890-7516-2	SW-2	Total/NA	Solid	8021B	98915
890-7516-3	SW-3	Total/NA	Solid	8021B	98915
890-7516-4	SW-4	Total/NA	Solid	8021B	98915
MB 880-98915/5-A	Method Blank	Total/NA	Solid	8021B	98915
LCS 880-98915/1-A	Lab Control Sample	Total/NA	Solid	8021B	98915
LCSD 880-98915/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98915

Analysis Batch: 99172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7516-1	SW-1	Total/NA	Solid	Total BTEX	
890-7516-2	SW-2	Total/NA	Solid	Total BTEX	
890-7516-3	SW-3	Total/NA	Solid	Total BTEX	
890-7516-4	SW-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7516-1	SW-1	Total/NA	Solid	8015NM Prep	
890-7516-2	SW-2	Total/NA	Solid	8015NM Prep	
890-7516-3	SW-3	Total/NA	Solid	8015NM Prep	
890-7516-4	SW-4	Total/NA	Solid	8015NM Prep	
MB 880-98970/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98970/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98970/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7516-1	SW-1	Total/NA	Solid	8015B NM	98970
890-7516-2	SW-2	Total/NA	Solid	8015B NM	98970
890-7516-3	SW-3	Total/NA	Solid	8015B NM	98970
890-7516-4	SW-4	Total/NA	Solid	8015B NM	98970
MB 880-98970/1-A	Method Blank	Total/NA	Solid	8015B NM	98970
LCS 880-98970/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98970
LCSD 880-98970/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98970

Analysis Batch: 99391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7516-1	SW-1	Total/NA	Solid	8015 NM	
890-7516-2	SW-2	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

GC Semi VOA (Continued)

Analysis Batch: 99391 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7516-3	SW-3	Total/NA	Solid	8015 NM	
890-7516-4	SW-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7516-1	SW-1	Soluble	Solid	DI Leach	
890-7516-2	SW-2	Soluble	Solid	DI Leach	
MB 880-99078/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99078/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99078/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 99087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7516-3	SW-3	Soluble	Solid	DI Leach	
890-7516-4	SW-4	Soluble	Solid	DI Leach	
MB 880-99087/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99087/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99087/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 99088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7516-1	SW-1	Soluble	Solid	300.0	99078
890-7516-2	SW-2	Soluble	Solid	300.0	99078
MB 880-99078/1-A	Method Blank	Soluble	Solid	300.0	99078
LCS 880-99078/2-A	Lab Control Sample	Soluble	Solid	300.0	99078
LCSD 880-99078/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99078

Analysis Batch: 99095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7516-3	SW-3	Soluble	Solid	300.0	99087
890-7516-4	SW-4	Soluble	Solid	300.0	99087
MB 880-99087/1-A	Method Blank	Soluble	Solid	300.0	99087
LCS 880-99087/2-A	Lab Control Sample	Soluble	Solid	300.0	99087
LCSD 880-99087/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99087

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

Client Sample ID: SW-1

Lab Sample ID: 890-7516-1

Date Collected: 12/24/24 11:10

Matrix: Solid

Date Received: 12/26/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 19:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99172	12/30/24 19:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			99391	01/02/25 14:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98970	12/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99294	01/02/25 14:33	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 22:38	SMC	EET MID

Client Sample ID: SW-2

Lab Sample ID: 890-7516-2

Date Collected: 12/24/24 11:15

Matrix: Solid

Date Received: 12/26/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99172	12/30/24 19:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			99391	01/02/25 14:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98970	12/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99294	01/02/25 14:49	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99078	12/30/24 15:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99088	12/31/24 22:46	SMC	EET MID

Client Sample ID: SW-3

Lab Sample ID: 890-7516-3

Date Collected: 12/24/24 11:20

Matrix: Solid

Date Received: 12/26/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 19:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99172	12/30/24 19:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			99391	01/02/25 15:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98970	12/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99294	01/02/25 15:04	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99087	12/30/24 15:38	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99095	01/01/25 02:11	SMC	EET MID

Client Sample ID: SW-4

Lab Sample ID: 890-7516-4

Date Collected: 12/24/24 11:25

Matrix: Solid

Date Received: 12/26/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 20:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99172	12/30/24 20:16	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

Client Sample ID: SW-4

Date Collected: 12/24/24 11:25

Date Received: 12/26/24 08:00

Lab Sample ID: 890-7516-4

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			99391	01/02/25 15:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98970	12/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99294	01/02/25 15:18	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99087	12/30/24 15:38	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99095	01/01/25 02:35	SMC	EET MID

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

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: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

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: Gaucho Booster Station

Job ID: 890-7516-1
SDG: 2615

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7516-1	SW-1	Solid	12/24/24 11:10	12/26/24 08:00	0-2
890-7516-2	SW-2	Solid	12/24/24 11:15	12/26/24 08:00	0-2
890-7516-3	SW-3	Solid	12/24/24 11:20	12/26/24 08:00	0-2
890-7516-4	SW-4	Solid	12/24/24 11:25	12/26/24 08:00	0-2

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Environment Testing
Xenco

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

Chain of Custody

Work



990-7516 Chain of Custody

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

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

Project Name:	Gaucha Booster Station	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes					
Project Number:	2615	Due Date:	5 Day TAT													None: NO	DI Water: H ₂ O				
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm														Cool: Cool	MeOH: Me				
Sampler's Name:	Gilbert Moreno															HCL: HC	HNO ₃ : HN				
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na				
SAMPLE RECEIPT	Tamp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No													H ₃ PO ₄ : HP						
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	TAMC67												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	Temperature Reading:	0.8												Zn Acetate+NaOH: Zn						
Total Containers:		Corrected Temperature:	0.8												NaOH+Ascorbic Acid: SANC						
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
SW - 1	S	12.24.24	11:10	0-2	Comp 1	X	X	X													Incident Number
SW - 2	S	12.24.24	11:15	0-2	Comp 1	X	X	X													nAPP2430237976
SW - 3	S	12.24.24	11:20	0-2	Comp 1	X	X	X													
SW - 4	S	12.24.24	11:25	0-2	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 Ni K Se Sr Ag Sn Hg Zn
Hq: 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
		2			

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	COC No:										
Client Contact:	N/A	Phone:	Teel, Brianna	890-4459-1										
Shipping/Receiving:	N/A	E-Mail:	Brianna.Teel@et.eurofins.com	Page: 1 of 1										
Company: Eurofins Environment Testing South Central		Accreditations Required (See note): NELAP - Texas		Job #: 890-7516-1										
Address: 1211 W. Florida Ave, Midland TX, 79701		Due Date Requested: 1/1/2025		Preservation codes:										
City: Midland		TAT Requested (days): N/A												
State, Zip: TX, 79701														
Phone: 432-704-5440(Tel)		PO #: N/A												
Email: N/A		WO #: N/A												
Project Name: gauchio booster station		Project #: 88000480												
Site: N/A		SSOW#: N/A												
				Other: N/A										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=overstabil, B=BTX, A=Al)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full TPH	8015MOD_Calc	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
SW-1 (890-7516-1)	12/24/24	11:10	Central	G	Solid			X	X	X	X		1	
SW-2 (890-7516-2)	12/24/24	11:15	Central	G	Solid			X	X	X	X		1	
SW-3 (890-7516-3)	12/24/24	11:20	Central	G	Solid			X	X	X	X		1	
SW-4 (890-7516-4)	12/24/24	11:25	Central	G	Solid			X	X	X	X		1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytes/methods being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested: I, II, III, IV, Other (Specify) Primary Deliverable Rank: 2														
Special Instructions/QC Requirements:														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months														
Empty Kit Relinquished by: Date: Time: Method of Shipment:														
Relinquished by: Date/Time: Company:														
Relinquished by: Date/Time: Company:														
Relinquished by: Date/Time: Company:														
Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:														
Δ Yes Δ No														

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7516-1

SDG Number: 2615

Login Number: 7516

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7516-1

SDG Number: 2615

Login Number: 7516

List Number: 2

Creator: Lee, Randell

List Source: Eurofins Midland

List Creation: 12/27/24 08:14 AM

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



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 1/15/2025 10:38:38 AM

JOB DESCRIPTION

Gaucha Booster Station
Lea County, NM

JOB NUMBER

890-7558-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



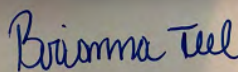
Eurofins Carlsbad

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
1/15/2025 10:38:38 AM

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

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Laboratory Job ID: 890-7558-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
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: Gaucho Booster Station

Job ID: 890-7558-1

Job ID: 890-7558-1

Eurofins Carlsbad

Job Narrative 890-7558-1

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

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

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

Receipt

The samples were received on 1/9/2025 3:14 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 -1.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 10 (890-7558-1), CS - 14 (890-7558-2), CS - 15 (890-7558-3), CS - 16 (890-7558-4), CS - 21 (890-7558-5), CS - 22 (890-7558-6), CS - 24 (890-7558-7) and CS - 26 (890-7558-8).

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: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS - 14 (890-7558-2) and CS - 26 (890-7558-8). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS - 24 (890-7558-7). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Client Sample ID: CS - 10

Lab Sample ID: 890-7558-1

Date Collected: 01/09/25 12:00

Matrix: Solid

Date Received: 01/09/25 15:14

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		01/10/25 08:19	01/10/25 12:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:19	01/10/25 12:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:19	01/10/25 12:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/25 08:19	01/10/25 12:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:19	01/10/25 12:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/25 08:19	01/10/25 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/10/25 08:19	01/10/25 12:50	1
1,4-Difluorobenzene (Surr)	89		70 - 130	01/10/25 08:19	01/10/25 12:50	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			01/10/25 12:50	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			01/15/25 00:31	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		01/10/25 09:40	01/15/25 00:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/25 09:40	01/15/25 00:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/25 09:40	01/15/25 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	01/10/25 09:40	01/15/25 00:31	1
o-Terphenyl	78		70 - 130	01/10/25 09:40	01/15/25 00:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.6		2.01		mg/Kg			01/10/25 15:45	1

Client Sample ID: CS - 14

Lab Sample ID: 890-7558-2

Date Collected: 01/09/25 12:05

Matrix: Solid

Date Received: 01/09/25 15:14

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		01/10/25 08:19	01/10/25 13:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 13:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 13:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/25 08:19	01/10/25 13:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 13:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/25 08:19	01/10/25 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	01/10/25 08:19	01/10/25 13:10	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Client Sample ID: CS - 14

Lab Sample ID: 890-7558-2

Date Collected: 01/09/25 12:05

Matrix: Solid

Date Received: 01/09/25 15:14

Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	01/10/25 08:19	01/10/25 13:10	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			01/10/25 13:10	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			01/15/25 01:16	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		01/10/25 09:40	01/15/25 01:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/10/25 09:40	01/15/25 01:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/10/25 09:40	01/15/25 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130				01/10/25 09:40	01/15/25 01:16	1
o-Terphenyl	148	S1+	70 - 130				01/10/25 09:40	01/15/25 01:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.9		1.99		mg/Kg			01/10/25 16:03	1

Client Sample ID: CS - 15

Lab Sample ID: 890-7558-3

Date Collected: 01/09/25 12:10

Matrix: Solid

Date Received: 01/09/25 15:14

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		01/10/25 08:19	01/10/25 13:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:19	01/10/25 13:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:19	01/10/25 13:30	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/10/25 08:19	01/10/25 13:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/25 08:19	01/10/25 13:30	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/10/25 08:19	01/10/25 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/10/25 08:19	01/10/25 13:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/10/25 08:19	01/10/25 13:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/10/25 13:30	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			01/15/25 01:30	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Client Sample ID: CS - 15

Lab Sample ID: 890-7558-3

Date Collected: 01/09/25 12:10

Matrix: Solid

Date Received: 01/09/25 15:14

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	<50.0	U	50.0		mg/Kg		01/10/25 09:40	01/15/25 01:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/25 09:40	01/15/25 01:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/25 09:40	01/15/25 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/10/25 09:40	01/15/25 01:30	1
o-Terphenyl	72		70 - 130				01/10/25 09:40	01/15/25 01:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.6		2.02		mg/Kg			01/10/25 16:09	1

Client Sample ID: CS - 16

Lab Sample ID: 890-7558-4

Date Collected: 01/09/25 12:15

Matrix: Solid

Date Received: 01/09/25 15:14

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		01/10/25 08:19	01/10/25 13:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/25 08:19	01/10/25 13:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/25 08:19	01/10/25 13:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/25 08:19	01/10/25 13:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/25 08:19	01/10/25 13:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/25 08:19	01/10/25 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				01/10/25 08:19	01/10/25 13:51	1
1,4-Difluorobenzene (Surr)	89		70 - 130				01/10/25 08:19	01/10/25 13:51	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			01/10/25 13:51	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			01/15/25 01:45	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		01/10/25 09:40	01/15/25 01:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/25 09:40	01/15/25 01:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/25 09:40	01/15/25 01:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				01/10/25 09:40	01/15/25 01:45	1
o-Terphenyl	73		70 - 130				01/10/25 09:40	01/15/25 01:45	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Client Sample ID: CS - 16

Lab Sample ID: 890-7558-4

Date Collected: 01/09/25 12:15

Matrix: Solid

Date Received: 01/09/25 15:14

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.5		2.01		mg/Kg			01/10/25 16:14	1

Client Sample ID: CS - 21

Lab Sample ID: 890-7558-5

Date Collected: 01/09/25 12:20

Matrix: Solid

Date Received: 01/09/25 15:14

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		01/10/25 08:19	01/10/25 14:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:19	01/10/25 14:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:19	01/10/25 14:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/10/25 08:19	01/10/25 14:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/25 08:19	01/10/25 14:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/25 08:19	01/10/25 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				01/10/25 08:19	01/10/25 14:11	1
1,4-Difluorobenzene (Surr)	89		70 - 130				01/10/25 08:19	01/10/25 14:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/10/25 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	<49.9	U	49.9		mg/Kg			01/15/25 02:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/25 09:40	01/15/25 02:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/25 09:40	01/15/25 02:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/25 09:40	01/15/25 02:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				01/10/25 09:40	01/15/25 02:00	1
o-Terphenyl	73		70 - 130				01/10/25 09:40	01/15/25 02:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.7		1.99		mg/Kg			01/10/25 16:20	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Client Sample ID: CS - 22

Lab Sample ID: 890-7558-6

Date Collected: 01/09/25 12:25

Matrix: Solid

Date Received: 01/09/25 15:14

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		01/10/25 08:19	01/10/25 14:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 14:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 14:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/10/25 08:19	01/10/25 14:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 14:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/25 08:19	01/10/25 14:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/10/25 08:19	01/10/25 14:31	1
1,4-Difluorobenzene (Surr)	86		70 - 130				01/10/25 08:19	01/10/25 14:31	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			01/10/25 14:31	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			01/15/25 02:14	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		01/10/25 09:40	01/15/25 02:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/10/25 09:40	01/15/25 02:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/10/25 09:40	01/15/25 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				01/10/25 09:40	01/15/25 02:14	1
o-Terphenyl	92		70 - 130				01/10/25 09:40	01/15/25 02:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.4		1.99		mg/Kg			01/10/25 16:26	1

Client Sample ID: CS - 24

Lab Sample ID: 890-7558-7

Date Collected: 01/09/25 12:30

Matrix: Solid

Date Received: 01/09/25 15:14

Sample Depth: 1.5

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		01/10/25 08:19	01/10/25 15:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/10/25 08:19	01/10/25 15:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/10/25 08:19	01/10/25 15:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/10/25 08:19	01/10/25 15:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/10/25 08:19	01/10/25 15:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/10/25 08:19	01/10/25 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/10/25 08:19	01/10/25 15:54	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Client Sample ID: CS - 24

Lab Sample ID: 890-7558-7

Date Collected: 01/09/25 12:30

Matrix: Solid

Date Received: 01/09/25 15:14

Sample Depth: 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	01/10/25 08:19	01/10/25 15:54	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			01/10/25 15:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/15/25 02:29	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	<49.7	U	49.7		mg/Kg		01/10/25 09:40	01/15/25 02:29	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/10/25 09:40	01/15/25 02:29	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/10/25 09:40	01/15/25 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				01/10/25 09:40	01/15/25 02:29	1
o-Terphenyl	69	S1-	70 - 130				01/10/25 09:40	01/15/25 02:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.7		2.00		mg/Kg			01/10/25 16:32	1

Client Sample ID: CS - 26

Lab Sample ID: 890-7558-8

Date Collected: 01/09/25 12:35

Matrix: Solid

Date Received: 01/09/25 15:14

Sample Depth: 1.5

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		01/10/25 08:19	01/10/25 16:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/25 08:19	01/10/25 16:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/25 08:19	01/10/25 16:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/10/25 08:19	01/10/25 16:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/25 08:19	01/10/25 16:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/25 08:19	01/10/25 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/10/25 08:19	01/10/25 16:15	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/10/25 08:19	01/10/25 16:15	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			01/10/25 16:15	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			01/15/25 02:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Client Sample ID: CS - 26

Lab Sample ID: 890-7558-8

Date Collected: 01/09/25 12:35

Matrix: Solid

Date Received: 01/09/25 15:14

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/10/25 09:40	01/15/25 02:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/10/25 09:40	01/15/25 02:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/10/25 09:40	01/15/25 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/10/25 09:40	01/15/25 02:43	1
o-Terphenyl	66	S1-	70 - 130				01/10/25 09:40	01/15/25 02:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.8		1.99		mg/Kg			01/10/25 16:38	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
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)
890-7558-1	CS - 10	115	89
890-7558-2	CS - 14	114	89
890-7558-3	CS - 15	115	91
890-7558-4	CS - 16	115	89
890-7558-5	CS - 21	112	89
890-7558-6	CS - 22	108	86
890-7558-7	CS - 24	119	88
890-7558-8	CS - 26	112	88
LCS 880-100001/1-A	Lab Control Sample	93	91
LCSD 880-100001/2-A	Lab Control Sample Dup	96	93
MB 880-100001/5-A	Method Blank	109	81
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)
890-7558-1	CS - 10	80	78
890-7558-1 MS	CS - 10	86	79
890-7558-1 MSD	CS - 10	86	79
890-7558-2	CS - 14	157 S1+	148 S1+
890-7558-3	CS - 15	75	72
890-7558-4	CS - 16	78	73
890-7558-5	CS - 21	79	73
890-7558-6	CS - 22	98	92
890-7558-7	CS - 24	74	69 S1-
890-7558-8	CS - 26	69 S1-	66 S1-
LCS 880-100032/2-A	Lab Control Sample	90	84
LCSD 880-100032/3-A	Lab Control Sample Dup	90	85
MB 880-100032/1-A	Method Blank	128	127
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100001/5-A

Matrix: Solid

Analysis Batch: 99896

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 11:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 11:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 11:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/10/25 08:19	01/10/25 11:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/25 08:19	01/10/25 11:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/25 08:19	01/10/25 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/10/25 08:19	01/10/25 11:06	1
1,4-Difluorobenzene (Surr)	81		70 - 130	01/10/25 08:19	01/10/25 11:06	1

Lab Sample ID: LCS 880-100001/1-A

Matrix: Solid

Analysis Batch: 99896

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09742		mg/Kg		97	70 - 130
Toluene	0.100	0.1026		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09322		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1873		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09450		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-100001/2-A

Matrix: Solid

Analysis Batch: 99896

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100001

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1004		mg/Kg		100	70 - 130	3	35
Toluene	0.100	0.1044		mg/Kg		104	70 - 130	2	35
Ethylbenzene	0.100	0.09562		mg/Kg		96	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1928		mg/Kg		96	70 - 130	3	35
o-Xylene	0.100	0.09698		mg/Kg		97	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-100032/1-A

Matrix: Solid

Analysis Batch: 100193

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100032

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		01/10/25 09:40	01/14/25 23:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/25 09:40	01/14/25 23:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/25 09:40	01/14/25 23:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				01/10/25 09:40	01/14/25 23:48	1
o-Terphenyl	127		70 - 130				01/10/25 09:40	01/14/25 23:48	1

Lab Sample ID: LCS 880-100032/2-A

Matrix: Solid

Analysis Batch: 100193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	879.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	829.0		mg/Kg		83	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	90		70 - 130				
o-Terphenyl	84		70 - 130				

Lab Sample ID: LCSD 880-100032/3-A

Matrix: Solid

Analysis Batch: 100193

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	880.4		mg/Kg		88	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	800.0		mg/Kg		80	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	90		70 - 130						
o-Terphenyl	85		70 - 130						

Lab Sample ID: 890-7558-1 MS

Matrix: Solid

Analysis Batch: 100193

Client Sample ID: CS - 10

Prep Type: Total/NA

Prep Batch: 100032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	705.7		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	709.8		mg/Kg		71	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

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

Lab Sample ID: 890-7558-1 MS

Matrix: Solid

Analysis Batch: 100193

Client Sample ID: CS - 10

Prep Type: Total/NA

Prep Batch: 100032

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 890-7558-1 MSD

Matrix: Solid

Analysis Batch: 100193

Client Sample ID: CS - 10

Prep Type: Total/NA

Prep Batch: 100032

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	792.3		mg/Kg		80	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	745.6		mg/Kg		75	70 - 130	5	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	86		70 - 130								
o-Terphenyl	79		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100021/1-A

Matrix: Solid

Analysis Batch: 100049

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<2.00	U	2.00		mg/Kg			01/10/25 13:41	1	

Lab Sample ID: LCS 880-100021/2-A

Matrix: Solid

Analysis Batch: 100049

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	50.0	54.40		mg/Kg		109	90 - 110			

Lab Sample ID: LCSD 880-100021/3-A

Matrix: Solid

Analysis Batch: 100049

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	50.0	54.52		mg/Kg		109	90 - 110	0	20	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 99896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7558-1	CS - 10	Total/NA	Solid	8021B	100001
890-7558-2	CS - 14	Total/NA	Solid	8021B	100001
890-7558-3	CS - 15	Total/NA	Solid	8021B	100001
890-7558-4	CS - 16	Total/NA	Solid	8021B	100001
890-7558-5	CS - 21	Total/NA	Solid	8021B	100001
890-7558-6	CS - 22	Total/NA	Solid	8021B	100001
890-7558-7	CS - 24	Total/NA	Solid	8021B	100001
890-7558-8	CS - 26	Total/NA	Solid	8021B	100001
MB 880-100001/5-A	Method Blank	Total/NA	Solid	8021B	100001
LCS 880-100001/1-A	Lab Control Sample	Total/NA	Solid	8021B	100001
LCSD 880-100001/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100001

Prep Batch: 100001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7558-1	CS - 10	Total/NA	Solid	5035	
890-7558-2	CS - 14	Total/NA	Solid	5035	
890-7558-3	CS - 15	Total/NA	Solid	5035	
890-7558-4	CS - 16	Total/NA	Solid	5035	
890-7558-5	CS - 21	Total/NA	Solid	5035	
890-7558-6	CS - 22	Total/NA	Solid	5035	
890-7558-7	CS - 24	Total/NA	Solid	5035	
890-7558-8	CS - 26	Total/NA	Solid	5035	
MB 880-100001/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100001/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100001/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 100060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7558-1	CS - 10	Total/NA	Solid	Total BTEX	
890-7558-2	CS - 14	Total/NA	Solid	Total BTEX	
890-7558-3	CS - 15	Total/NA	Solid	Total BTEX	
890-7558-4	CS - 16	Total/NA	Solid	Total BTEX	
890-7558-5	CS - 21	Total/NA	Solid	Total BTEX	
890-7558-6	CS - 22	Total/NA	Solid	Total BTEX	
890-7558-7	CS - 24	Total/NA	Solid	Total BTEX	
890-7558-8	CS - 26	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 100032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7558-1	CS - 10	Total/NA	Solid	8015NM Prep	
890-7558-2	CS - 14	Total/NA	Solid	8015NM Prep	
890-7558-3	CS - 15	Total/NA	Solid	8015NM Prep	
890-7558-4	CS - 16	Total/NA	Solid	8015NM Prep	
890-7558-5	CS - 21	Total/NA	Solid	8015NM Prep	
890-7558-6	CS - 22	Total/NA	Solid	8015NM Prep	
890-7558-7	CS - 24	Total/NA	Solid	8015NM Prep	
890-7558-8	CS - 26	Total/NA	Solid	8015NM Prep	
MB 880-100032/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100032/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 100032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-100032/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7558-1 MS	CS - 10	Total/NA	Solid	8015NM Prep	
890-7558-1 MSD	CS - 10	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7558-1	CS - 10	Total/NA	Solid	8015B NM	100032
890-7558-2	CS - 14	Total/NA	Solid	8015B NM	100032
890-7558-3	CS - 15	Total/NA	Solid	8015B NM	100032
890-7558-4	CS - 16	Total/NA	Solid	8015B NM	100032
890-7558-5	CS - 21	Total/NA	Solid	8015B NM	100032
890-7558-6	CS - 22	Total/NA	Solid	8015B NM	100032
890-7558-7	CS - 24	Total/NA	Solid	8015B NM	100032
890-7558-8	CS - 26	Total/NA	Solid	8015B NM	100032
MB 880-100032/1-A	Method Blank	Total/NA	Solid	8015B NM	100032
LCS 880-100032/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100032
LCSD 880-100032/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100032
890-7558-1 MS	CS - 10	Total/NA	Solid	8015B NM	100032
890-7558-1 MSD	CS - 10	Total/NA	Solid	8015B NM	100032

Analysis Batch: 100303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7558-1	CS - 10	Total/NA	Solid	8015 NM	
890-7558-2	CS - 14	Total/NA	Solid	8015 NM	
890-7558-3	CS - 15	Total/NA	Solid	8015 NM	
890-7558-4	CS - 16	Total/NA	Solid	8015 NM	
890-7558-5	CS - 21	Total/NA	Solid	8015 NM	
890-7558-6	CS - 22	Total/NA	Solid	8015 NM	
890-7558-7	CS - 24	Total/NA	Solid	8015 NM	
890-7558-8	CS - 26	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 100021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7558-1	CS - 10	Soluble	Solid	DI Leach	
890-7558-2	CS - 14	Soluble	Solid	DI Leach	
890-7558-3	CS - 15	Soluble	Solid	DI Leach	
890-7558-4	CS - 16	Soluble	Solid	DI Leach	
890-7558-5	CS - 21	Soluble	Solid	DI Leach	
890-7558-6	CS - 22	Soluble	Solid	DI Leach	
890-7558-7	CS - 24	Soluble	Solid	DI Leach	
890-7558-8	CS - 26	Soluble	Solid	DI Leach	
MB 880-100021/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100021/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100021/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 100049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7558-1	CS - 10	Soluble	Solid	300.0	100021
890-7558-2	CS - 14	Soluble	Solid	300.0	100021

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 100049 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7558-3	CS - 15	Soluble	Solid	300.0	100021
890-7558-4	CS - 16	Soluble	Solid	300.0	100021
890-7558-5	CS - 21	Soluble	Solid	300.0	100021
890-7558-6	CS - 22	Soluble	Solid	300.0	100021
890-7558-7	CS - 24	Soluble	Solid	300.0	100021
890-7558-8	CS - 26	Soluble	Solid	300.0	100021
MB 880-100021/1-A	Method Blank	Soluble	Solid	300.0	100021
LCS 880-100021/2-A	Lab Control Sample	Soluble	Solid	300.0	100021
LCSD 880-100021/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100021

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Client Sample ID: CS - 10

Lab Sample ID: 890-7558-1

Date Collected: 01/09/25 12:00

Matrix: Solid

Date Received: 01/09/25 15:14

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	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100060	01/10/25 12:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			100303	01/15/25 00:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100032	01/10/25 09:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100193	01/15/25 00:31	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	10 mL	100021	01/10/25 09:16	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100049	01/10/25 15:45	CH	EET MID

Client Sample ID: CS - 14

Lab Sample ID: 890-7558-2

Date Collected: 01/09/25 12:05

Matrix: Solid

Date Received: 01/09/25 15:14

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	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100060	01/10/25 13:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			100303	01/15/25 01:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100032	01/10/25 09:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100193	01/15/25 01:16	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	10 mL	100021	01/10/25 09:16	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100049	01/10/25 16:03	CH	EET MID

Client Sample ID: CS - 15

Lab Sample ID: 890-7558-3

Date Collected: 01/09/25 12:10

Matrix: Solid

Date Received: 01/09/25 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100060	01/10/25 13:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			100303	01/15/25 01:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	100032	01/10/25 09:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100193	01/15/25 01:30	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	10 mL	100021	01/10/25 09:16	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100049	01/10/25 16:09	CH	EET MID

Client Sample ID: CS - 16

Lab Sample ID: 890-7558-4

Date Collected: 01/09/25 12:15

Matrix: Solid

Date Received: 01/09/25 15:14

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	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100060	01/10/25 13:51	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Client Sample ID: CS - 16

Lab Sample ID: 890-7558-4

Date Collected: 01/09/25 12:15

Matrix: Solid

Date Received: 01/09/25 15:14

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			100303	01/15/25 01:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100032	01/10/25 09:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100193	01/15/25 01:45	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	10 mL	100021	01/10/25 09:16	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100049	01/10/25 16:14	CH	EET MID

Client Sample ID: CS - 21

Lab Sample ID: 890-7558-5

Date Collected: 01/09/25 12:20

Matrix: Solid

Date Received: 01/09/25 15:14

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	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100060	01/10/25 14:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			100303	01/15/25 02:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100032	01/10/25 09:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100193	01/15/25 02:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	10 mL	100021	01/10/25 09:16	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100049	01/10/25 16:20	CH	EET MID

Client Sample ID: CS - 22

Lab Sample ID: 890-7558-6

Date Collected: 01/09/25 12:25

Matrix: Solid

Date Received: 01/09/25 15:14

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	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100060	01/10/25 14:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			100303	01/15/25 02:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100032	01/10/25 09:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100193	01/15/25 02:14	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	10 mL	100021	01/10/25 09:16	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100049	01/10/25 16:26	CH	EET MID

Client Sample ID: CS - 24

Lab Sample ID: 890-7558-7

Date Collected: 01/09/25 12:30

Matrix: Solid

Date Received: 01/09/25 15:14

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	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 15:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100060	01/10/25 15:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			100303	01/15/25 02:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	100032	01/10/25 09:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100193	01/15/25 02:29	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Client Sample ID: CS - 24

Date Collected: 01/09/25 12:30

Date Received: 01/09/25 15:14

Lab Sample ID: 890-7558-7

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			4.99 g	10 mL	100021	01/10/25 09:16	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100049	01/10/25 16:32	CH	EET MID

Client Sample ID: CS - 26

Date Collected: 01/09/25 12:35

Date Received: 01/09/25 15:14

Lab Sample ID: 890-7558-8

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			4.98 g	5 mL	100001	01/10/25 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99896	01/10/25 16:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100060	01/10/25 16:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			100303	01/15/25 02:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100032	01/10/25 09:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100193	01/15/25 02:43	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	10 mL	100021	01/10/25 09:16	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100049	01/10/25 16:38	CH	EET MID

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Gaucho Booster Station

Job ID: 890-7558-1
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: Gaucho Booster Station

Job ID: 890-7558-1
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: Gaucho Booster Station

Job ID: 890-7558-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7558-1	CS - 10	Solid	01/09/25 12:00	01/09/25 15:14	3
890-7558-2	CS - 14	Solid	01/09/25 12:05	01/09/25 15:14	3
890-7558-3	CS - 15	Solid	01/09/25 12:10	01/09/25 15:14	3
890-7558-4	CS - 16	Solid	01/09/25 12:15	01/09/25 15:14	3
890-7558-5	CS - 21	Solid	01/09/25 12:20	01/09/25 15:14	3
890-7558-6	CS - 22	Solid	01/09/25 12:25	01/09/25 15:14	3
890-7558-7	CS - 24	Solid	01/09/25 12:30	01/09/25 15:14	1.5
890-7558-8	CS - 26	Solid	01/09/25 12:35	01/09/25 15:14	1.5

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



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	WPX Permian LLC
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: _____	
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ANALYSIS REQUEST

Preservative Codes
None: NO DI Water: H₂O
Cool: Cool MeOH: Me
HCL: HC HNO₃: HN
H₂SO₄: H₂ NaOH: Na
H₃PO₄: HP
NaHSO₄: NABIS
Na₂S₂O₃: NaSO₃
NaOH+Ascorbic Acid: SASC



890-7558 Chain of Custody

Project Name:	Gaucha Booster Station	Turn Around	Pres. Code	ANALYSIS REQUEST										Preservative Codes							
Project Number:	2615	☒ Routine ☐ Rush																			
Project Location:	Lea County, NM	Due Date:	5 Day TAT																		
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm																			
PO #:																					
SAMPLE RECEIPT	Temp Blank: Yes ☒ No ☐	Wet Ice: Yes ☒ No ☐	Thermometer ID: T1000																		
Samples Received Intact:	Yes ☒ No ☐ N/A	Correction Factor:	-0.2																		
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Temperature Reading:	-1.4																		
Sample Custody Seals:	Yes ☒ No ☐ N/A	Corrected Temperature:	-1.2																		
Total Containers:																					
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	1.9.25	12:00	3	Comp	1	X	X	X												
CS-14	S	1.9.25	12:05	3	Comp	1	X	X	X												
CS-15	S	1.9.25	12:10	3	Comp	1	X	X	X												
CS-16	S	1.9.25	12:15	3	Comp	1	X	X	X												
CS-21	S	1.9.25	12:20	3	Comp	1	X	X	X												
CS-22	S	1.9.25	12:25	3	Comp	1	X	X	X												
CS-24	S	1.9.25	12:30	1.5	Comp	1	X	X	X												
CS-26	S	1.9.25	12:35	1.5	Comp	1	X	X	X												

Total 200.7 / 6010 200.8 / 6020: BRGR 13PPM Texas 11 A-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 Matrix(s) to be analyzed: BRGR 13PPM 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>	11/15/14	<i>[Signature]</i>	<i>[Signature]</i>	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7558-1

SDG Number: Lea County, NM

Login Number: 7558

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: 890-7558-1

SDG Number: Lea County, NM

Login Number: 7558

List Source: Eurofins Carlsbad

List Number: 2

Creator: Bruns, Shannon

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

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7558-1

SDG Number: Lea County, NM

Login Number: 7558

List Number: 3

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 01/10/25 08:17 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	

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 432708

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 432708
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2430237976
Incident Name	NAPP2430237976 GAUCHO BOOSTER STATION @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	Gaucha Booster Station
Date Release Discovered	10/25/2024
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 40 BBL Recovered: 34 BBL Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 432708

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 432708
	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: James Raley Title: EHS Professional Email: jim.ralej@dvni.com Date: 02/17/2025
--	---

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QUESTIONS, Page 3

Action 432708

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 432708
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	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 ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<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)	3350
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	12/20/2024
On what date will (or did) the final sampling or liner inspection occur	01/09/2025
On what date will (or was) the remediation complete(d)	02/04/2025
What is the estimated surface area (in square feet) that will be reclaimed	5959
What is the estimated volume (in cubic yards) that will be reclaimed	360
What is the estimated surface area (in square feet) that will be remediated	5959
What is the estimated volume (in cubic yards) that will be remediated	360

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 432708

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 432708
	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	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 02/17/2025
<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>	

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, Page 5

Action 432708

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 432708
	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 432708

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 432708
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	417678
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/10/2025
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	1600

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5959
What was the total volume (cubic yards) remediated	360
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	5959
What was the total volume (in cubic yards) reclaimed	360
Summarize any additional remediation activities not included by answers (above)	The Site was remediated according to Site Closure Criteria and has been backfilled with clean, locally sourced material. Re-seeding will be completed during the next favorable season.

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 02/17/2025
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QUESTIONS, Page 7

Action 432708

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 432708
	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 432708

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 432708
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2430237976 GAUCHO BOOSTER STATION, thank you. This Remediation Closure Report is approved.	2/20/2025