

February 3, 2025

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

RE: Chavis 8" Lateral (MAL-1-10-3-4-EXT)- Closure Request Report

Incident Number: nAPP2432429248 GPS: 32.995402°, -104.017412° Chaves County, New Mexico ESRR Project No. 2685

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of Kinetik Midstream (Kinetik), presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of condensate at the Chavis 8" Lateral (MAL-1-10-3-4-EXT) (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, Kinetik is requesting No Further Action (NFA) at the Site.

Site Location & Incident Description

The Site is located in Unit N, Section 22, Township 15 South, Range 29 East, in Chaves County, New Mexico (32.995402°, -104.017412°) and is associated with oil and gas exploration and production operations on Private Land (**Figure 1**).

On November 16, 2024, a corroded underground pipeline ruptured, causing the release of approximately 13 barrels (bbl) of condensate onto a Kinetik right-of-way (ROW) and adjacent pasture. A vacuum truck was immediately dispatched to the Site and recovered 11 bbls of fluids. Kinetik conducted initial site assessment activities and mapped the observed release footprint on November 16, 2024, hereafter referred to as the Area of Concern (AOC) (**Figure 2**). Initial excavation activities were immediately conducted directly around the flowline to perform repairs to the underground pipeline. Kinetik gave notice to the New Mexico Oil Conservation Division (NMOCD) on November 19, 2024, by Notification of Release (NOR) and a Corrective Action Form C-141 (Form C-141) and was subsequently assigned Incident Number nAPP2432429248.

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:

- Greater than 5 miles of any continuously flowing watercourse or any other significant watercourse;
- o Between 1 and 5 miles of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- o Greater than 5 miles of any occupied permanent residence, school, hospital, institution or church;
- Greater than 5 miles of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;



- Between 1 and 5 miles of any other freshwater well or spring;
- Between 1 and 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- Between 1,000 feet and ½ mile of any wetland;
- Greater than 5 miles of any subsurface mine;
- Between 1 and 1,000 feet of any unstable area (i.e. high karst potential); and
- Between 1 and 5 miles of a 100-year floodplain.

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

Based on the results from the desktop review, no depth to water wells were found within ½ mile and the Site has been designated with high karst potential. The following Closure Criteria was applied:

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

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

TPH= Gasoline Range Organics + Diesel Range Organics + Oil Range Organics
Laboratory Analytical Methods used: Environmental Protection Agency (EPA) 300.0, EPA 8015 NM, EPA 8021 B

Delineation Activities

On November 20, 2024, ESRR conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Five delineation boreholes (HA-1 through HA-5) 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 four soil samples were collected from each delineation borehole, representing the highest observed field screening concentrations and the greatest depth. Delineation soil samples were placed directly into pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs. **Photographic Documentation** of all activities are attached.

Laboratory analytical results for soil samples (HA-2 through HA-5) were compliant with Site Closure Criteria and/or the reclamation standard defining the horizontal periphery of the AOC.

Laboratory analytical results for soil sample (HA-1), collected within the AOC, indicated TPH-GRO+TPH-DRO/TPH was above the Site Closure Criteria and/or the reclamation standard up to 1-foot bgs. Elevated TPH-GRO+TPH-DRO/TPH concentrations were characterized by a concentration of 621 mg/kg, specifically for TPH-GRO and TPH-DRO. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 2**.

Remediation Activities

On December 23, 2024, excavation activities of identified impacts were performed via mechanical equipment based on laboratory analytical results associated with delineation soil sampling activities and visual observation. The excavation was vertically advanced to a depth of 3-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) and sidewalls (SW-1 and SW-2). 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 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 40 cubic yards (CY) of impacted soil was removed from the Site and transported to Lea Land in Hobbs, New Mexico under Kinetik approved manifests. Upon receipt of the final confirmation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. The final soil cover was contoured to match the Site's pre-existing grade to prevent ponding of water and erosion.

Closure Request

Based on laboratory analytical results for all final confirmation soil samples, Kinetik believes that residual soil impacts associated with the inadvertent release have been excavated and removed from the Site in accordance with Site Closure Criteria. Kinetik 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 Kinetik respectfully requests Closure of this CRR associated with Incident Number nAPP2432429248.

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

Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

Gilbert Moreno

Carlsbad Operations Manager-Project Geologist

cc: Sebastian Orozco, Kinetik Midstream

Attachments:

Figure 1 - Site Map

Figure 1A - Ground Water

Figure 1B - Karst Potential

Figure 2 - Delineation Soil Sample Locations

Figure 3 - Excavation Soil Sample Locations

Referenced Well Record



Photographic Documentation
Table 1 - Soil Sample Analytical Results
NMOCD Email Documentation & Correspondance
Executed Chain-of-Custody Forms and Laboratory Analytical Reports



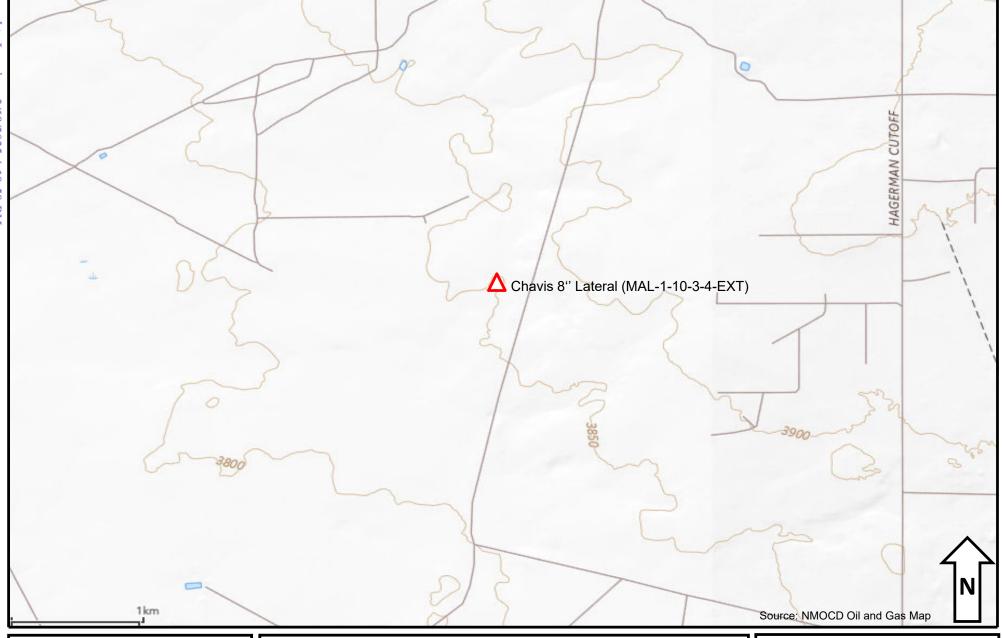




Figure 1 – Site Map

Kinetik Midstream – Chavis 8" Lateral (MAL-1-10-3-4-EXT) GPS: 32.995402, -104.017412 Chaves County, New Mexico



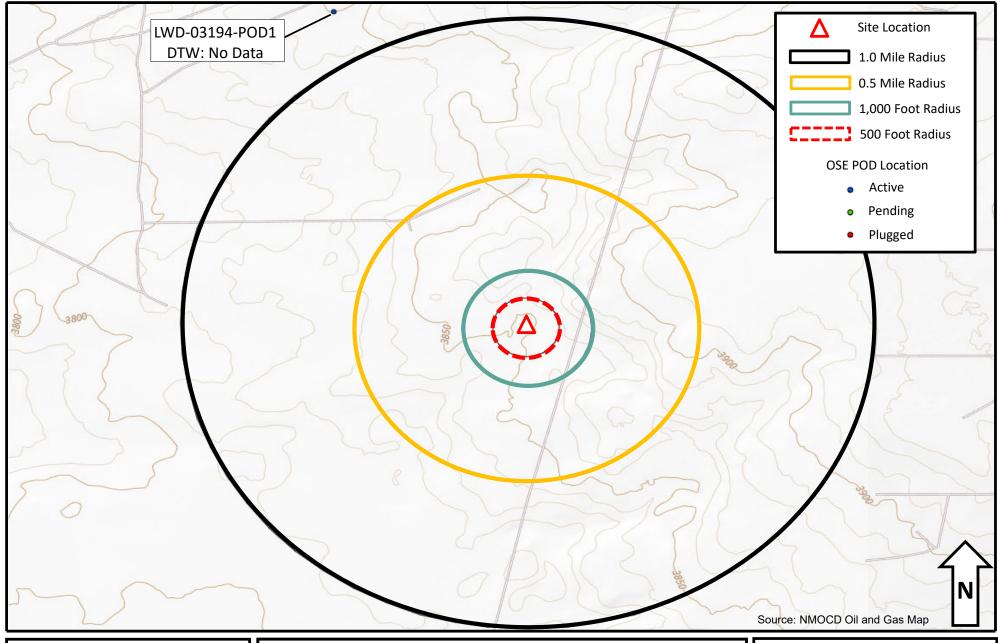




Figure 1A – Ground Water

Kinetik Midstream – Chavis 8" Lateral (MAL-1-10-3-4-EXT) GPS: 32.995402, -104.017412 Chaves County, New Mexico



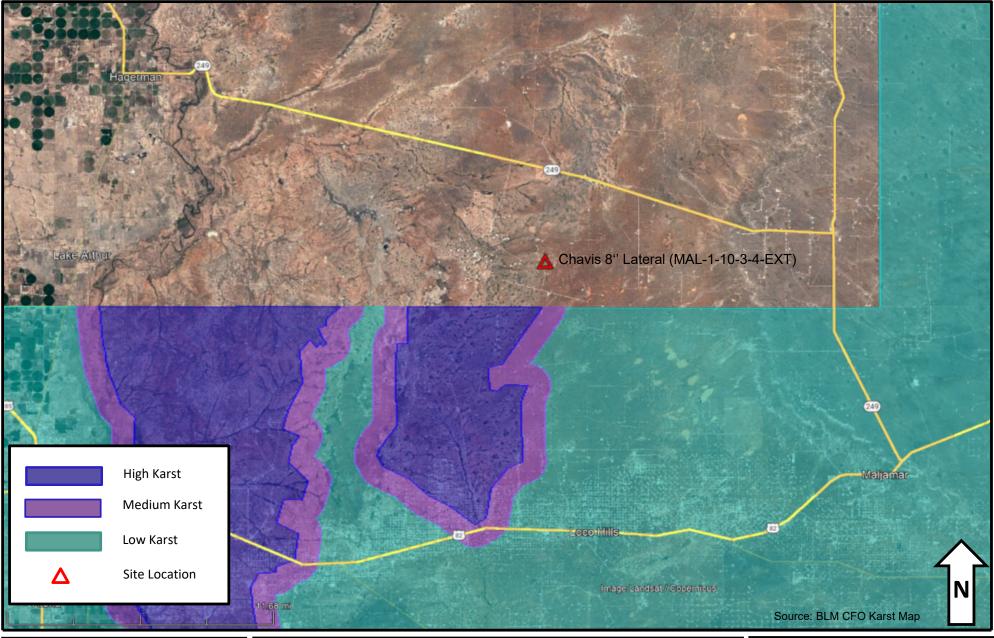




Figure 1B - Karst Potential

Kinetik Midstream - Chavis 8" Lateral (MAL-1-10-3-4-EXT) GPS: 32.995402, -104.017412 Chaves County, New Mexico



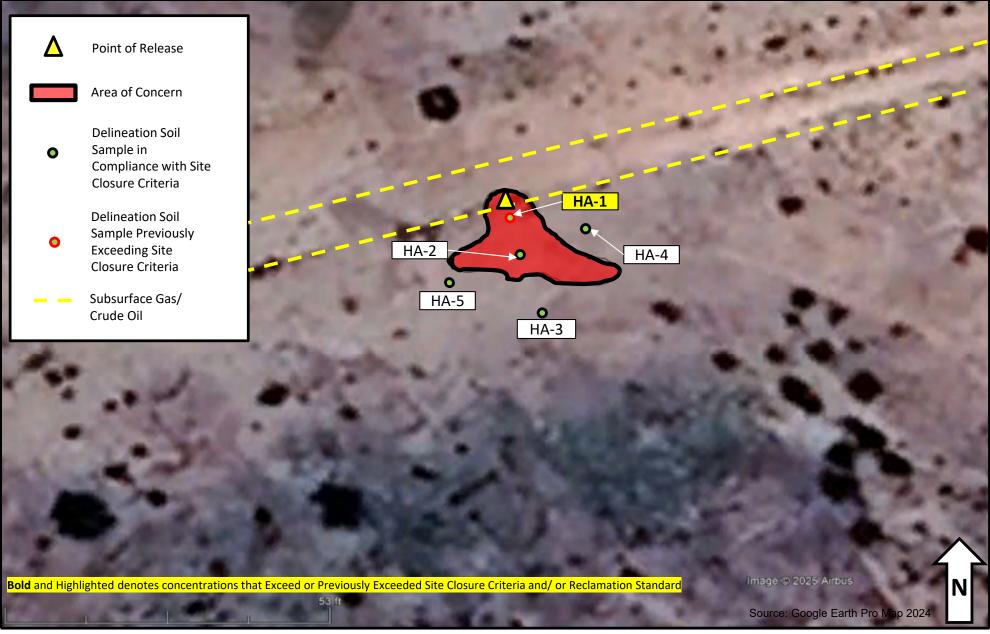




Figure 2 - Delineation Soil Sample Locations

Kinetik Midstream - Chavis 8" Lateral (MAL-1-10-3-4-EXT) GPS: 32.995402, -104.017412 Chaves County, New Mexico



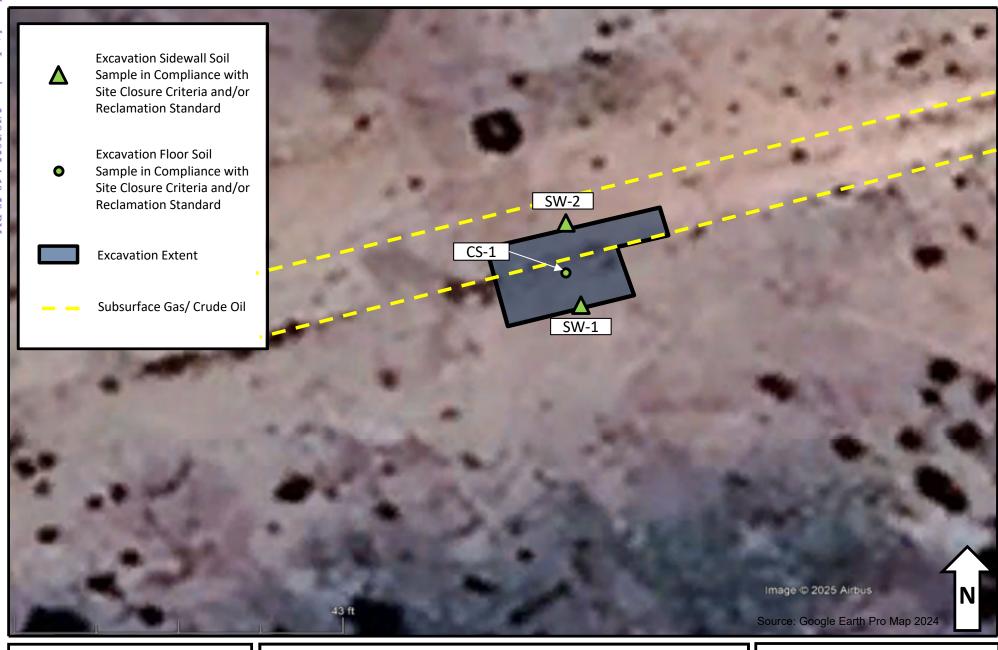




Figure 3 – Excavation Soil Sample Locations

Kinetik Midstream – Chavis 8" Lateral (MAL-1-10-3-4-EXT) GPS: 32.995402, -104.017412 Chaves County, New Mexico





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PHOTO 1: Southeastern view after initial excavation and repairs made by Kinetik. 11/20/2024



PHOTO 2: Northwestern view during delineation activities. 11/20/2024





PHOTO 3: Northwestern view during delineation activities. 11/20/2024



PHOTO 4: Southwestern view of excavation extent. 12/27/2024





PHOTO 5: Southeastern view of excavation extent. 12/27/2024



PHOTO 6: Northeastern view after restoration activities. 1/15/2025

Received by OCD: 2/11/2025 9:58:30 AM



Table 1 SOIL SAMPLE ANALYTICAL RESULTS Chavis 8" Lateral (MAL-1-10-3-4-EXT) **Chaves County, New Mexico**



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)		
NMOCD Table I Closu Release (NMAC 19.15.		s Impacted by a	10	50	NE	NE	NE	100	600		
Delineation Soil Samples - nAPP2432429248											
HA-1 11/20/2024 0.5 0.36 18.2 187 434 <49.8 621 19.8											
HA - 1	11/20/2024	2	0.216	12.8	<49.7	<49.7	<49.7	<49.7	<10.1		
HA - 1	11/20/2024	4	<0.0201	<0.0402	<50.0	<50.0	<50.0	<50.0	<9.96		
HA - 1	11/20/2024	6	<0.0202	<0.0403	<49.9	<49.9	<49.9	<49.9	12.9		
HA - 2	11/20/2024	0.5	0.0272	0.33	<49.9	<49.9	<49.9	<49.9	<10.1		
HA - 2	11/20/2024	2	<0.0202	0.213	<50.0	<50.0	<50.0	<50.0	<9.94		
HA - 2	11/20/2024	4	<0.0201	<0.0402	<50.0	<50.0	<50.0	<50.0	<9.92		
HA - 2	11/20/2024	6	<0.00200	0.00517	<49.9	<49.9	<49.9	<49.9	<10.0		
HA - 3	11/20/2024	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<10.1		
HA - 3	11/20/2024	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<9.96		
HA - 3	11/20/2024	4	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<9.92		
HA - 4	11/20/2024	0.5	0.00796	0.0813	<49.9	<49.9	<49.9	<49.9	<10.1		
HA - 4	11/20/2024	2	0.00285	0.0295	<49.9	<49.9	<49.9	<49.9	<9.94		
HA - 4	11/20/2024	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<10.0		
HA - 4	11/20/2024	6	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<10.0		
HA - 5	11/20/2024	0.5	0.0129	0.111	<49.7	<49.7	<49.7	<49.7	<9.94		
HA - 5	11/20/2024	2	0.00332	0.0297	<50.0	<50.0	<50.0	<50.0	<10.0		
HA - 5	11/20/2024	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<10.1		
HA - 5	11/20/2024	6	<0.00199	0.0138	<50.5	<50.5	<50.5	<50.5	<10.1		
				Excavation Soil	Samples - nAPP243242	29248					
CS-1	12/27/2024	3	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	80.7		
SW-1	12/27/2024	0-3	<0.00201	0.00569	<50.0	<50.0	<50.0	<50.0	97.7		
SW-2	12/27/2024	0-3	<0.00200	0.0469	<49.8	76.0	<49.8	76.0	169		

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

[†]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.



RE: [EXTERNAL] Re: nAPP2211550639 - Soil Sampling Activities

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

Date Mon 12/30/2024 12:55 PM

To Gilbert Moreno <gmoreno@earthsys.net>

Cc sorozco@kinetik.com <sorozco@kinetik.com>; jorgetmmx@gmail.com <jorgetmmx@gmail.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Gilbert,

I will enter this into Incident Details. In the future, please make sure the 2 business day notification is entered into C-141N via Permitting. Please include this e-mail correspondence in the remediation and/or closure report. Regards

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: Monday, December 30, 2024 1:07 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov> **Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] Re: nAPP2211550639 - Soil Sampling Activities

As you are the reviewer of this incident (nAPP2432429248) I am forwarding to you Rob.

From: Gilbert Moreno <gmoreno@earthsys.net> Sent: Monday, December 30, 2024 12:11 PM

To: Wells, Shelly, EMNRD < Shelly.Wells@emnrd.nm.gov>

Cc: jorgetmmx@gmail.com; Sebastian Orozco <sorozco@kinetik.com>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>

Subject: Re: [EXTERNAL] Re: nAPP2211550639 - Soil Sampling Activities

You don't often get email from gmoreno@earthsys.net. Learn why this is important Hi Shelly,

Thanks for the quick response!

Understood. Just for clarification, this original email notification was sent abiding to the two-business day requirement and to help with record keeping. Unfortunately, the operator was unable to immediately submit a C-141N via Permitting while out of the office for the holidays but has since been submitted into Permitting. I plan to attach all correspondence in our final report.

Please let me know if this will be acceptable.

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



From: Wells, Shelly, EMNRD < Shelly.Wells@emnrd.nm.gov>

Sent: Monday, December 30, 2024 10:12 AM **To:** Gilbert Moreno <gmoreno@earthsys.net>

Cc: jorgetmmx@gmail.com <jorgetmmx@gmail.com>; Sebastian Orozco <sorozco@kinetik.com>; Bratcher,

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

Subject: RE: [EXTERNAL] Re: nAPP2211550639 - Soil Sampling Activities

Hi Gilbert,

Thanks for the update but these need to be submitted as C-141N sampling notifications via Permitting at least two business days prior to sample collection.

Kind regards,

Shelly

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

From: Gilbert Moreno <gmoreno@earthsys.net>
Sent: Monday, December 30, 2024 11:02 AM

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

Cc: <u>jorgetmmx@gmail.com</u>; Sebastian Orozco < <u>sorozco@kinetik.com</u>> **Subject:** [EXTERNAL] Re: nAPP2211550639 - Soil Sampling Activities

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

Good afternoon,

My apologies, the Notification of Sampling (C-141N) email below is for incident **nAPP2432429248** and NOT nAPP2211550639.

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



From: Gilbert Moreno

Sent: Thursday, December 19, 2024 2:44 PM

To: ocd.enviro@emnrd.nm.gov <ocd.enviro@emnrd.nm.gov>

Cc: jorgetmmx@gmail.com <jorgetmmx@gmail.com>; Sebastian Orozco <sorozco@kinetik.com>

Subject: nAPP2211550639 - Soil Sampling Activities

Hello,

Earth Systems R & R anticipates conducting soil sampling activities at the CHAVIS 8" LATERAL (MAL-1-10-3-4-EXT), December 27th, 2024. This email will be followed up with a Notification of Sampling (C-141N) for the proposed date.

Proposed Time:	08:00-17:00 MST
Site Name:	CHAVIS 8" LATERAL (MAL-1-10-3-4-EXT)
Incident Number:	nAPP2211550639
Sampling Surface Area:	400 sq. ft.
Samples to be collected:	6
Sampling Date(s):	12/27/2024
Who to Contact:	Gilbert Moreno (832) 541-7719
Site GPS:	32.995402,-104.017412

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 415790

Q	UESTIONS					
Operator: FRONTIER FIELD SERVICES, LLC		OGRID: 221115				
303 Veterans Airpark Lane		Action Number:				
Midland, TX 79705		415790 Action Type:				
		[NOTIFY] Notification Of Sampling (C-141N)				
QUESTIONS						
Prerequisites						
Incident ID (n#)	nAPP2432429248					
Incident Name	NAPP2432429248 CH	AVIS 8" LATERAL (MAL-1-10-3-4-EXT) @ 0				
Incident Type	Natural Gas Release					
Incident Status	Initial C-141 Approved	ı				
Location of Release Source	T					
Site Name	Chavis 8" Lateral (MAL-1-10-3-4-EXT)					
Date Release Discovered	11/16/2024					
Surface Owner	Private					
Sampling Event General Information						
Please answer all the questions in this group.						
What is the sampling surface area in square feet	400					
What is the estimated number of samples that will be gathered	6					
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/27/2024					
Time sampling will commence	08:00 AM					
Warning: Notification can not be less than two business days prior to conducting final samplin	ıg.					
Please provide any information necessary for observers to contact samplers	Gilbert Moreno (832) 5	541-7719				
Please provide any information necessary for navigation to sampling site	32.995402,-104.0174	12				

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

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

CONDITIONS

Action 415790

CONDITIONS

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
303 Veterans Airpark Lane	Action Number:
Midland, TX 79705	415790
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sorozco	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.	12/30/2024

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/27/2024 11:32:26 AM

JOB DESCRIPTION

Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)
Chaves County, NM

JOB NUMBER

890-7406-1

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

Brisma Tel

Generated 11/27/2024 11:32:26 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Laboratory Job ID: 890-7406-1 SDG: Chaves County, NM

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Definitions/Glossary

Job ID: 890-7406-1 Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) SDG: Chaves County, NM

Qualifiers

GC	VOA
Qual	lifier

Qualifier Description 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.

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased.

HPLC/IC

U

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

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)

Dilution Factor Dil Fac

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI 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 Practical Quantitation Limit **PQL**

PRES Presumptive

Quality Control QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TFF **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

Job ID: 890-7406-1

Case Narrative

Client: Earth Systems Response and Restoration

Project: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Eurofins Carlsbad Job ID: 890-7406-1

Job Narrative 890-7406-1

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 11/21/2024 8:02 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 5.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 1 (890-7406-1), HA - 1 (890-7406-2), HA - 1 (890-7406-3), HA - 1 (890-7406-4), HA - 1 (890-7406-5), HA - 1 (890-7406-6), HA - 2 (890-7406-7), HA - 2 (890-7406-7) HA - 2 (890-7406-9), HA - 2 (890-7406-10), HA - 2 (890-7406-11), HA - 2 (890-7406-12), HA - 3 (890-7406-13), HA - 3 (890-7406-14), HA - 3 (890-7406-15), HA - 3 (890-7406-16), HA - 3 (890-7406-17), HA - 4 (890-7406-18), HA - 4 (890-7406-19), HA - 4 (890-7406-20), HA - 4 (890-7406-21), HA - 4 (890-7406-22), HA - 4 (890-7406-23), HA - 5 (890-7406-24), HA - 5 (890-7406-25), HA - 5 (890-7406-26), HA - 5 (890-7406-27), HA - 5 (890-7406-28) and HA - 5 (890-7406-29).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA - 1 (890-7406-3), HA - 1 (890-7406-5), HA - 1 (890-7406-6), HA - 2 (890-7406-7), HA - 2 (890-7406-9) and HA - 2 (890-7406-11). Evidence of matrix interferences is not obvious

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA - 2 (890-7406-12), HA - 3 (890-7406-17), HA - 4 (890-7406-20) and HA - 5 (890-7406-24). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-96355 and analytical batch 880-96346 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.

Method 8021B: Surrogate recovery for the following sample was outside control limits: HA - 5 (890-7406-29). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-96356 and analytical batch 880-96345 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: Surrogate recovery for the following samples were outside control limits: HA - 1 (890-7406-3), HA - 1 (890-7406-5), HA - 1 (890-7406-6), HA - 2 (890-7406-7), HA - 2 (890-7406-9) and HA - 2 (890-7406-11). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA - 2 (890-7406-12), HA - 3 (890-7406-13), HA - 3 (890-7406-15), HA - 3 (890-7406-17), HA - 4 (890-7406-18), HA - 4 (890-7406-20), HA - 4 (890-7406-22), HA - 4 (890-7406-23), HA - 5 (890-7406-24), HA - 5 (890-7406-26), (890-7406-A-12-B MS) and (890-7406-A-12-C MSD). Evidence of matrix interferences is not obvious.

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Case Narrative

Client: Earth Systems Response and Restoration

Project: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Job ID: 890-7406-1 (Continued)

Eurofins Carlsbad

Job ID: 890-7406-1

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-96301 and analytical batch 880-96433 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.

HPLC/IC

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

Eurofins Carlsbad

Released to Imaging: 2/18/2025 4:19:59 PM

Matrix: Solid

Client Sample Results

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Job ID: 890-7406-1 SDG: Chaves County, NM

SDG: Chaves County, NM

Lab Sample ID: 890-7406-1

Client Sample ID: HA - 1

Date Collected: 11/20/24 12:00 Date Received: 11/21/24 08:02

Sample Depth: 0.5

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.360		0.199		mg/Kg		11/22/24 08:32	11/22/24 14:15	100
Toluene	3.84		0.199		mg/Kg		11/22/24 08:32	11/22/24 14:15	100
Ethylbenzene	6.58		0.199		mg/Kg		11/22/24 08:32	11/22/24 14:15	100
m-Xylene & p-Xylene	5.19		0.398		mg/Kg		11/22/24 08:32	11/22/24 14:15	100
o-Xylene	2.19		0.199		mg/Kg		11/22/24 08:32	11/22/24 14:15	100
Xylenes, Total	7.38		0.398		mg/Kg		11/22/24 08:32	11/22/24 14:15	100
Surrogate	%Recovery 0	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/22/24 08:32	11/22/24 14:15	100
1,4-Difluorobenzene (Surr)	93		70 - 130				11/22/24 08:32	11/22/24 14:15	100

Welliou. TAL SOP Total BTEX - Total							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	18.2	0.398	mg/Kg			11/22/24 14:15	1

Method: SW846 8015 NM - Diesel R	Range Organi	ics (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	621		49.8		mg/Kg			11/21/24 23:55	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	187	49.8	mg/Kg		11/20/24 13:57	11/21/24 23:55	1
Diesel Range Organics (Over C10-C28)	434	49.8	mg/Kg		11/20/24 13:57	11/21/24 23:55	1
Oil Range Organics (Over C28-C36)	<49.8 U	49.8	mg/Kg		11/20/24 13:57	11/21/24 23:55	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	84		70 - 130	11/20/24 13:57	11/21/24 23:55	1
Į	o-Terphenyl	73		70 - 130	11/20/24 13:57	11/21/24 23:55	1

Method: EPA 300.0 - Anions, ion C	nromatograp	ny - Soluble						
Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.8	9.92		mg/Kg			11/22/24 22:17	1

Client Sample ID: HA - 1 Lab Sample ID: 890-7406-3

Date Collected: 11/20/24 12:10 Date Received: 11/21/24 08:02

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.216		0.0198		mg/Kg		11/23/24 16:48	11/24/24 02:17	10
Toluene	3.37		0.0198		mg/Kg		11/23/24 16:48	11/24/24 02:17	10
Ethylbenzene	0.483		0.0198		mg/Kg		11/23/24 16:48	11/24/24 02:17	10
m-Xylene & p-Xylene	7.30		0.0396		mg/Kg		11/23/24 16:48	11/24/24 02:17	10
o-Xylene	1.48		0.0198		mg/Kg		11/23/24 16:48	11/24/24 02:17	10
Xylenes, Total	8.78		0.0396		mg/Kg		11/23/24 16:48	11/24/24 02:17	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	248	S1+	70 - 130				11/23/24 16:48	11/24/24 02:17	10

Eurofins Carlsbad

Matrix: Solid

Client Sample Results

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Job ID: 890-7406-1 SDG: Chaves County, NM

Lab Sample ID: 890-7406-3

Client Sample ID: HA - 1

Date Collected: 11/20/24 12:10 Date Received: 11/21/24 08:02

Sample Depth: 2

Method: SW846 8021B	 Volatile Organic Com 	pounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130	11/23/24 16:48	11/24/24 02:17	10

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
motilou. IAL	OOI TOTAL DIEN	TOTAL DIEN	Guidalation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	12.8		0.0396		mg/Kg			11/24/24 02:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (0	н						
	ı	Mothod: CIMOAC ODAE NIM	Discal Bangs	Organica	(DDO)		١.
	н	MELITOU. SYVO40 OUTS INIVI-	· Diesei Kaliue	Organics	IURUI	uu	

Analyte	Result	Qualifier	RL	MDL Uni	t	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/	Kg			11/22/24 00:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7		49.7		mg/Kg	— <u> </u>	11/20/24 13:57	11/22/24 00:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		11/20/24 13:57	11/22/24 00:11	1
C10-C28) Oil Range Organics (Over C28-C36)	<49.7	11	49.7		mg/Kg		11/20/24 13:57	11/22/24 00:11	1
Oil Nailye Organics (Over 020-030)	\45. 1	U	45.7		mg/rkg		11/20/24 13.37	11/22/24 00.11	'
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80	70 - 130	11/20/24 13:57	11/22/24 00:11	1
o-Terphenyl	61 S1-	70 - 130	11/20/24 13:57	11/22/24 00:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	Γ	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg				11/22/24 22:42	1

Client Sample ID: HA - 1 Lab Sample ID: 890-7406-5

Date Collected: 11/20/24 12:20 Date Received: 11/21/24 08:02

Sample Depth: 4

l				
Method: SW	846 8021B	- Volatile Orga	anic Compound	s (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0201	U	0.0201		mg/Kg		11/23/24 16:48	11/24/24 02:38	10
Toluene	<0.0201	U	0.0201		mg/Kg		11/23/24 16:48	11/24/24 02:38	10
Ethylbenzene	<0.0201	U	0.0201		mg/Kg		11/23/24 16:48	11/24/24 02:38	10
m-Xylene & p-Xylene	<0.0402	U	0.0402		mg/Kg		11/23/24 16:48	11/24/24 02:38	10
o-Xylene	<0.0201	U	0.0201		mg/Kg		11/23/24 16:48	11/24/24 02:38	10
Xylenes, Total	<0.0402	U	0.0402		mg/Kg		11/23/24 16:48	11/24/24 02:38	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				11/23/24 16:48	11/24/24 02:38	10
1,4-Difluorobenzene (Surr)	96		70 - 130				11/23/24 16:48	11/24/24 02:38	10

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	< 0.0402	U	0.0402		ma/Ka			11/24/24 02:38	1	

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		_	11/22/24 00:27	1

Eurofins Carlsbad

2

3

10

12

13

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Job ID: 890-7406-1 SDG: Chaves County, NM

Client Sample ID: HA - 1

Date Collected: 11/20/24 12:20 Date Received: 11/21/24 08:02

Sample Depth: 4

Lab Sample ID: 890-7406-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/20/24 13:57	11/22/24 00:27	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/20/24 13:57	11/22/24 00:27	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/20/24 13:57	11/22/24 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				11/20/24 13:57	11/22/24 00:27	1
o-Terphenyl	63	S1-	70 - 130				11/20/24 13:57	11/22/24 00:27	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
mothod: El A 000.0 Amono, lon									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: HA - 1 Lab Sample ID: 890-7406-6

Date Collected: 11/20/24 12:25

Date Received: 11/21/24 08:02

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0202	U	0.0202		mg/Kg		11/23/24 16:48	11/24/24 02:58	10
Toluene	<0.0202	U	0.0202		mg/Kg		11/23/24 16:48	11/24/24 02:58	10
Ethylbenzene	<0.0202	U	0.0202		mg/Kg		11/23/24 16:48	11/24/24 02:58	10
m-Xylene & p-Xylene	<0.0403	U	0.0403		mg/Kg		11/23/24 16:48	11/24/24 02:58	10
o-Xylene	<0.0202	U	0.0202		mg/Kg		11/23/24 16:48	11/24/24 02:58	10
Xylenes, Total	<0.0403	U	0.0403		mg/Kg		11/23/24 16:48	11/24/24 02:58	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				11/23/24 16:48	11/24/24 02:58	10
1,4-Difluorobenzene (Surr)	95		70 - 130				11/23/24 16:48	11/24/24 02:58	10
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.0403	U	0.0403		mg/Kg			11/24/24 02:58	1
Total BTEX	<0.0403	U	0.0403		mg/Kg			11/24/24 02:58	1
Total BTEX Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (mg/Kg			11/24/24 02:58	
	el Range Organ			MDL		D	Prepared	11/24/24 02:58 Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDL		D	Prepared		
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <49.9	ics (DRO) (Qualifier	GC) RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Qualifier	GC) RL 49.9	MDL	Unit mg/Kg	D	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.9 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		Unit mg/Kg			Analyzed 11/22/24 00:43	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	el Range Organ Result Result 49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	GC) RL 49.9 (GC) RL		Unit mg/Kg		Prepared	Analyzed 11/22/24 00:43 Analyzed	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result Result 49.9 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL		Unit mg/Kg		Prepared	Analyzed 11/22/24 00:43 Analyzed	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result Result Result Result <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9 (GC) RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 11/20/24 13:57	Analyzed 11/22/24 00:43 Analyzed 11/22/24 00:43	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result Result Result Result <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9 (GC) RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 11/20/24 13:57	Analyzed 11/22/24 00:43 Analyzed 11/22/24 00:43	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.9 sel Range Orga Result 49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/20/24 13:57 11/20/24 13:57	Analyzed 11/22/24 00:43 Analyzed 11/22/24 00:43 11/22/24 00:43	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/20/24 13:57 11/20/24 13:57 11/20/24 13:57	Analyzed 11/22/24 00:43 Analyzed 11/22/24 00:43 11/22/24 00:43 11/22/24 00:43	Dil Fac Dil Fac 1 1 1

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Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Job ID: 890-7406-1 SDG: Chaves County, NM

Lab Sample ID: 890-7406-6

Matrix: Solid

Date Collected: 11/20/24 12:25

Date Received: 11/21/24 08:02

Client Sample ID: HA - 1

Sample Depth: 6

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.9		9.92		mg/Kg			11/22/24 22:58	1

Client Sample ID: HA - 2 Lab Sample ID: 890-7406-7 **Matrix: Solid**

Date Collected: 11/20/24 12:30 Date Received: 11/21/24 08:02

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0272		0.0199		mg/Kg		11/23/24 16:48	11/24/24 03:18	10
Toluene	0.0639		0.0199		mg/Kg		11/23/24 16:48	11/24/24 03:18	10
Ethylbenzene	0.0698		0.0199		mg/Kg		11/23/24 16:48	11/24/24 03:18	10
m-Xylene & p-Xylene	0.110		0.0398		mg/Kg		11/23/24 16:48	11/24/24 03:18	10
o-Xylene	0.0592		0.0199		mg/Kg		11/23/24 16:48	11/24/24 03:18	10
Xylenes, Total	0.169		0.0398		mg/Kg		11/23/24 16:48	11/24/24 03:18	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130				11/23/24 16:48	11/24/24 03:18	10
1,4-Difluorobenzene (Surr)	96		70 - 130				11/23/24 16:48	11/24/24 03:18	10

WELLIOU. TAL SUP TOTAL BIEX - TOTAL	al BIEX Calculation						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.330	0.0398	mg/Kg			11/24/24 03:18	1

Method: SW846 8015 NM - Diesel F	Range Organi	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/22/24 00:59	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/20/24 13:57	11/22/24 00:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/20/24 13:57	11/22/24 00:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/20/24 13:57	11/22/24 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				11/20/24 13:57	11/22/24 00:59	1
o-Terphenyl	60	S1-	70 - 130				11/20/24 13:57	11/22/24 00:59	1

Method: EPA 300.0 - Anions, Ion Cl	nromatograp	hy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			11/22/24 23:06	1

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Matrix: Solid

Lab Sample ID: 890-7406-9

Client: Earth Systems Response and Restoration

Job ID: 890-7406-1

Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

SDG: Chaves County, NM

Client Sample ID: HA - 2

Date Collected: 11/20/24 12:40 Date Received: 11/21/24 08:02

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0202	U	0.0202		mg/Kg		11/23/24 16:48	11/24/24 03:39	10
Toluene	0.0454		0.0202		mg/Kg		11/23/24 16:48	11/24/24 03:39	10
Ethylbenzene	0.0468		0.0202		mg/Kg		11/23/24 16:48	11/24/24 03:39	10
m-Xylene & p-Xylene	0.0781		0.0404		mg/Kg		11/23/24 16:48	11/24/24 03:39	10
o-Xylene	0.0431		0.0202		mg/Kg		11/23/24 16:48	11/24/24 03:39	10
Xylenes, Total	0.121		0.0404		mg/Kg		11/23/24 16:48	11/24/24 03:39	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130				11/23/24 16:48	11/24/24 03:39	10
1,4-Difluorobenzene (Surr)	97		70 - 130				11/23/24 16:48	11/24/24 03:39	10
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.213		0.0404		mg/Kg			11/24/24 03:39	1
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/22/24 01:15	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		11/20/24 13:57	11/22/24 01:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/20/24 13:57	11/22/24 01:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/20/24 13:57	11/22/24 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				11/20/24 13:57	11/22/24 01:15	1
o-Terphenyl	63	S1-	70 - 130				11/20/24 13:57	11/22/24 01:15	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Amalusta	Popult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Resuit	Qualifici		IVIDE	Onit		Порагса	Analyzea	Diriac

Client Sample ID: HA - 2

Date Collected: 11/20/24 12:50

Date Received: 11/21/24 08:02

Sample Depth: 4

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0201	U	0.0201		mg/Kg		11/23/24 16:48	11/24/24 03:59	10
Toluene	<0.0201	U	0.0201		mg/Kg		11/23/24 16:48	11/24/24 03:59	10
Ethylbenzene	<0.0201	U	0.0201		mg/Kg		11/23/24 16:48	11/24/24 03:59	10
m-Xylene & p-Xylene	<0.0402	U	0.0402		mg/Kg		11/23/24 16:48	11/24/24 03:59	10
o-Xylene	<0.0201	U	0.0201		mg/Kg		11/23/24 16:48	11/24/24 03:59	10
Xylenes, Total	<0.0402	U	0.0402		mg/Kg		11/23/24 16:48	11/24/24 03:59	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130				11/23/24 16:48	11/24/24 03:59	10

9.94

mg/Kg

<9.94 U

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11/22/24 23:31

Matrix: Solid

Lab Sample ID: 890-7406-11

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Job ID: 890-7406-1

SDG: Chaves County, NM

Client Sample ID: HA - 2

Date Collected: 11/20/24 12:50 Date Received: 11/21/24 08:02

Sample Depth: 4

Lab Sample ID: 890-7406-11

Matrix: Solid

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 1,4-Difluorobenzene (Surr) 95 11/23/24 16:48 11/24/24 03:59 10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.0402 0.0402 11/24/24 03:59 mg/Kg

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

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 50.0 11/22/24 01:31 mg/Kg

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

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <50.0 U mg/Kg Gasoline Range Organics 50.0 11/20/24 13:57 11/22/24 01:31 (GRO)-C6-C10 <50.0 U 50.0 11/20/24 13:57 11/22/24 01:31 Diesel Range Organics (Over mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/20/24 13:57 11/22/24 01:31

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 86 70 - 130 11/20/24 13:57 11/22/24 01:31 66 S1-70 - 130 11/20/24 13:57 11/22/24 01:31 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <9.92 U 9.92 11/22/24 23:39 mg/Kg

Client Sample ID: HA - 2 Lab Sample ID: 890-7406-12

Date Collected: 11/20/24 12:55 Date Received: 11/21/24 08:02

Sample Depth: 6

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 11/22/24 08:32 11/22/24 11:32 Toluene <0.00200 U 0.00200 11/22/24 08:32 11/22/24 11:32 mg/Kg <0.00200 U 0.00200 11/22/24 08:32 11/22/24 11:32 Ethylbenzene mg/Kg 11/22/24 11:32 0.00399 11/22/24 08:32 m-Xylene & p-Xylene 0.00517 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 11/22/24 08:32 11/22/24 11:32 0.00517 0.00399 mg/Kg 11/22/24 08:32 11/22/24 11:32 **Xylenes, Total**

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 S1+ 4-Bromofluorobenzene (Surr) 131 11/22/24 08:32 11/22/24 11:32 1,4-Difluorobenzene (Surr) 96 70 - 130 11/22/24 08:32 11/22/24 11:32

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier MDL D RL Unit Prepared Analyzed Dil Fac **Total BTEX** 0.00517 0.00399 mg/Kg 11/22/24 11:32

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.9 U Total TPH 49.9 11/22/24 18:10 mg/Kg

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Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Job ID: 890-7406-1 SDG: Chaves County, NM

Client Sample ID: HA - 2

Date Collected: 11/20/24 12:55 Date Received: 11/21/24 08:02

Sample Depth: 6

Lab 3	Sample	ID:	890-7406-12	
			Matrix: Solid	

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/21/24 16:11	11/22/24 18:10	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U F1	49.9		mg/Kg		11/21/24 16:11	11/22/24 18:10	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/24 16:11	11/22/24 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	82		70 - 130				11/21/24 16:11	11/22/24 18:10	
o-Terphenyl	62	S1-	70 - 130				11/21/24 16:11	11/22/24 18:10	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	<10.0	U	10.0		mg/Kg			11/22/24 23:47	

Client Sample ID: HA - 3 Lab Sample ID: 890-7406-13 Date Collected: 11/20/24 13:00 Matrix: Solid

Date Received: 11/21/24 08:02

Sample Depth: 0.5

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/22/24 08:32	11/22/24 16:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/22/24 08:32	11/22/24 16:09	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/22/24 08:32	11/22/24 16:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/22/24 08:32	11/22/24 16:09	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/22/24 08:32	11/22/24 16:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/22/24 08:32	11/22/24 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				11/22/24 08:32	11/22/24 16:09	1
1,4-Difluorobenzene (Surr)	82		70 - 130				11/22/24 08:32	11/22/24 16:09	1

	Method: TAL SOP Total BTEX - Tot	al BTEX Calo	culation							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Į	Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/24 16:09	1

Method: SW846 8015 NM - Diesel F	Range Organi	ics (DRO) (0	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/22/24 19:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/21/24 16:11	11/22/24 19:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/24 16:11	11/22/24 19:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/24 16:11	11/22/24 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				11/21/24 16:11	11/22/24 19:00	1
o-Terphenyl	59	S1-	70 ₋ 130				11/21/24 16:11	11/22/24 19:00	1

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Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Job ID: 890-7406-1

SDG: Chaves County, NM

Client Sample ID: HA - 3

Date Collected: 11/20/24 13:00

Date Received: 11/21/24 08:02

Lab Sample ID: 890-7406-13 Matrix: Solid

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			11/22/24 23:55	1

Client Sample ID: HA - 3 Lab Sample ID: 890-7406-15 **Matrix: Solid**

Date Collected: 11/20/24 13:10

Date Received: 11/21/24 08:02

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		11/22/24 08:32	11/22/24 16:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/24 08:32	11/22/24 16:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/24 08:32	11/22/24 16:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/22/24 08:32	11/22/24 16:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/24 08:32	11/22/24 16:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/22/24 08:32	11/22/24 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				11/22/24 08:32	11/22/24 16:30	1
1,4-Difluorobenzene (Surr)	98		70 - 130				11/22/24 08:32	11/22/24 16:30	1
Method: TAL SOP Total BTEX Analyte		culation Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/22/24 16:30	Dil Fac
Analyte	<0.00400	Qualifier U	0.00400	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX	Result <0.00400	Qualifier U	0.00400			<u>D</u>	Prepared Prepared		Dil Fac Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Di	Result <0.00400	Qualifier U ics (DRO) (Qualifier	0.00400 GC)		mg/Kg	=		11/22/24 16:30	1
Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH	Result <0.00400 Resel Range Organ Result <50.00	Qualifier U ics (DRO) (Qualifier U	0.00400 GC) RL 50.0		mg/Kg	=		11/22/24 16:30 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Di Analyte	Result <0.00400 Resel Range Organ Result <50.0 Diesel Range Organ	Qualifier U ics (DRO) (Qualifier U	0.00400 GC) RL 50.0	MDL	mg/Kg	=		11/22/24 16:30 Analyzed	1

Surrogate	%Recovery Qualit	fier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83	70 - 130	11/21/24 16:11	11/22/24 19:17	1
o-Terphenyl	64 S1-	70 - 130	11/21/24 16:11	11/22/24 19:17	1

50.0

50.0

mg/Kg

mg/Kg

11/21/24 16:11

11/21/24 16:11

11/22/24 19:17

11/22/24 19:17

Method: EPA 300.0 - Anio	ons, Ion Chromatography - Soluble
Analyto	Pocult Qualifier

<50.0 U

<50.0 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			11/23/24 00:03	1

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Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

C10-C28)

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Job ID: 890-7406-1

SDG: Chaves County, NM

Client Sample ID: HA - 3

Date Collected: 11/20/24 13:20 Date Received: 11/21/24 08:02

Sample Depth: 4

Lab Sample ID: 890-7406-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		11/22/24 08:32	11/22/24 16:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/24 08:32	11/22/24 16:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/24 08:32	11/22/24 16:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/22/24 08:32	11/22/24 16:50	
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/24 08:32	11/22/24 16:50	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/22/24 08:32	11/22/24 16:50	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				11/22/24 08:32	11/22/24 16:50	
1,4-Difluorobenzene (Surr)	96		70 - 130				11/22/24 08:32	11/22/24 16:50	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/22/24 16:50	1
Method: SW846 8015 NM - Diese	ol Pango Organ	ice (DPO) (3C)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8		49.8		mg/Kg			11/22/24 19:35	1
Mothod: CW04C 004ED NM Dia	aal Dawaa Ossa	rice (DDO)	(00)						
Method: SW846 8015B NM - Dies Analyte		Qualifier	(GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics			49.8	WIDE	mg/Kg		11/21/24 16:11	11/22/24 19:35	Dil Fac
(GRO)-C6-C10	\49.0	U	49.0		mg/Rg		11/21/24 10.11	11/22/24 19.55	'
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/21/24 16:11	11/22/24 19:35	1
C10-C28)									'
C10-C28) Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/21/24 16:11	11/22/24 19:35	
,	<49.8 %Recovery		49.8 <i>Limit</i> s		mg/Kg		11/21/24 16:11 Prepared	11/22/24 19:35 **Analyzed**	1
Oil Range Organics (Over C28-C36)					mg/Kg				Dil Fac
Oil Range Organics (Over C28-C36) Surrogate	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fa
Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 77 59	Qualifier S1-	Limits 70 - 130 70 - 130		mg/Kg		Prepared 11/21/24 16:11	Analyzed 11/22/24 19:35	Dil Fac
Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 77 59 Chromatograp	Qualifier S1-	Limits 70 - 130 70 - 130	MDL		D	Prepared 11/21/24 16:11	Analyzed 11/22/24 19:35	Dil Fac

Lab Sample ID: 890-7406-18 Client Sample ID: HA - 4

Date Collected: 11/20/24 13:25

Date Received: 11/21/24 08:02

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00796	*+	0.00201		mg/Kg		11/22/24 08:32	11/22/24 17:11	1
Toluene	0.0289		0.00201		mg/Kg		11/22/24 08:32	11/22/24 17:11	1
Ethylbenzene	0.0194		0.00201		mg/Kg		11/22/24 08:32	11/22/24 17:11	1
m-Xylene & p-Xylene	0.0181		0.00402		mg/Kg		11/22/24 08:32	11/22/24 17:11	1
o-Xylene	0.00693		0.00201		mg/Kg		11/22/24 08:32	11/22/24 17:11	1
Xylenes, Total	0.0250		0.00402		mg/Kg		11/22/24 08:32	11/22/24 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/22/24 08:32	11/22/24 17:11	1

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Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Job ID: 890-7406-1 SDG: Chaves County, NM

Lab Sample ID: 890-7406-18

Matrix: Solid

Client Sample ID: HA - 4

Date Collected: 11/20/24 13:25 Date Received: 11/21/24 08:02

Sample Depth: 0.5

Method: SW846 8021B	- Volatile Organic	Compounds (GC)	(Continued)
moundar official contract	Tolumo Organio	oompounae (,	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96	70 - 130	11/22/24 08:32	11/22/24 17:11	1

Mothod: TAL SOP	Total RTFY - Tota	I BTEX Calculation
Method. TAL OUT	TOTAL DIEX - TOTA	I DIEA Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0813	0.00402	mg/Kg			11/22/24 17:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (0	н						
	ı	Mothod: CIMOAC ODAE NIM	Discal Bangs	Organica	(DDO)		١.
	н	MELITOU. SYVO40 OUTS INIVI-	· Diesei Kaliue	Organics	IURUI	uu	

Analyte	Result	Qualifier	RL	MDL U	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	n	ma/Ka			11/22/24 19:50	1	

Method: SW846 8015B NM - Diesel Range Or	ganics (DRO)	(GC)
Michiga Offoro Colod Min - Dieser Range Of	garries (Dito)	(00)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/21/24 16:11	11/22/24 19:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/21/24 16:11	11/22/24 19:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/24 16:11	11/22/24 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87	70 - 130	11/21/24 16:11	11/22/24 19:50	1
o-Terphenyl	66 S1-	70 - 130	11/21/24 16:11	11/22/24 19:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg	 _		11/23/24 00:36	1

Client Sample ID: HA - 4

Lab Sample ID: 890-7406-20 Date Collected: 11/20/24 13:35 **Matrix: Solid**

Date Received: 11/21/24 08:02

Sample Depth: 2

Method: SW846 8021B -	M-1-4!1- O	0 (00)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00285		0.00199		mg/Kg		11/22/24 08:32	11/22/24 17:31	1
Toluene	0.00677		0.00199		mg/Kg		11/22/24 08:32	11/22/24 17:31	1
Ethylbenzene	0.00669		0.00199		mg/Kg		11/22/24 08:32	11/22/24 17:31	1
m-Xylene & p-Xylene	0.00932		0.00398		mg/Kg		11/22/24 08:32	11/22/24 17:31	1
o-Xylene	0.00391		0.00199		mg/Kg		11/22/24 08:32	11/22/24 17:31	1
Xylenes, Total	0.0132		0.00398		mg/Kg		11/22/24 08:32	11/22/24 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				11/22/24 08:32	11/22/24 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	11/22/24 08:	32 11/22/24 17:31	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/22/24 08:		1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifi	ier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0295	0.00398	mg/Kg			11/22/24 17:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg				11/22/24 20:07	1

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Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Job ID: 890-7406-1

SDG: Chaves County, NM

Client Sample ID: HA - 4

Date Collected: 11/20/24 13:35 Date Received: 11/21/24 08:02

Sample Depth: 2

Lab Sample ID: 890-7406-20

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/21/24 16:11	11/22/24 20:07	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/21/24 16:11	11/22/24 20:07	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/21/24 16:11	11/22/24 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				11/21/24 16:11	11/22/24 20:07	1
o-Terphenyl	64	S1-	70 - 130				11/21/24 16:11	11/22/24 20:07	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94		9.94		mg/Kg			11/23/24 00:44	

Client Sample ID: HA - 4 Lab Sample ID: 890-7406-22

Date Collected: 11/20/24 13:45 Date Received: 11/21/24 08:02

Sample Depth: 4

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198		mg/Kg		11/22/24 08:32	11/22/24 17:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/22/24 08:32	11/22/24 17:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/22/24 08:32	11/22/24 17:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/22/24 08:32	11/22/24 17:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/22/24 08:32	11/22/24 17:51	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/22/24 08:32	11/22/24 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				11/22/24 08:32	11/22/24 17:51	1
1,4-Difluorobenzene (Surr)	98		70 - 130				11/22/24 08:32	11/22/24 17:51	1
- Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/22/24 17:51	1
Method: SW846 8015 NM - Diese	el Range Organ	ice /NDN //							
			•			_	_		
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/22/24 20:23	Dil Fac
Analyte	Result <50.0	Qualifier U	RL 50.0	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0 sel Range Orga	Qualifier U	RL 50.0	MDL	mg/Kg	D	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier	RL 50.0		mg/Kg			11/22/24 20:23	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg Unit		Prepared	11/22/24 20:23 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/21/24 16:11 11/21/24 16:11	11/22/24 20:23 Analyzed 11/22/24 20:23 11/22/24 20:23	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/21/24 16:11	11/22/24 20:23 Analyzed 11/22/24 20:23	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/21/24 16:11 11/21/24 16:11	11/22/24 20:23 Analyzed 11/22/24 20:23 11/22/24 20:23	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/21/24 16:11 11/21/24 16:11 11/21/24 16:11	Analyzed 11/22/24 20:23 11/22/24 20:23 11/22/24 20:23 11/22/24 20:23	1 Dil Fac 1 1

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Matrix: Solid

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Job ID: 890-7406-1

SDG: Chaves County, NM

Client Sample ID: HA - 4

Date Collected: 11/20/24 13:45 Date Received: 11/21/24 08:02

Sample Depth: 4

Lab Sample ID: 890-7406-22

Matrix: Solid

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble)						
Analyte	Result	Qualifier	RL	MDL U	Init	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	m	ng/Kg			11/23/24 01:08	1

Client Sample ID: HA - 4 Lab Sample ID: 890-7406-23 **Matrix: Solid**

Date Collected: 11/20/24 13:50 Date Received: 11/21/24 08:02

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		11/22/24 08:32	11/22/24 18:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/22/24 08:32	11/22/24 18:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/22/24 08:32	11/22/24 18:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/22/24 08:32	11/22/24 18:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/22/24 08:32	11/22/24 18:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/22/24 08:32	11/22/24 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/22/24 08:32	11/22/24 18:12	1
1,4-Difluorobenzene (Surr)	96		70 - 130				11/22/24 08:32	11/22/24 18:12	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/24 18:12	1
_									

Method: SW846 8015 NM - Diesei F	kange Organi	CS (DRU) (G	L)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/22/24 20:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/21/24 16:11	11/22/24 20:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/21/24 16:11	11/22/24 20:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/21/24 16:11	11/22/24 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				11/21/24 16:11	11/22/24 20:40	1
o-Terphenyl	61	S1-	70 ₋ 130				11/21/24 16:11	11/22/24 20:40	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			11/23/24 01:17	1

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Job ID: 890-7406-1

SDG: Chaves County, NM

Client Sample ID: HA - 5

Date Collected: 11/20/24 13:55 Date Received: 11/21/24 08:02

Sample Depth: 0.5

Lab Sample ID: 890-7406-24

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0129	*+	0.00200		mg/Kg		11/22/24 08:32	11/22/24 18:32	1
Toluene	0.0394		0.00200		mg/Kg		11/22/24 08:32	11/22/24 18:32	1
Ethylbenzene	0.0184		0.00200		mg/Kg		11/22/24 08:32	11/22/24 18:32	1
m-Xylene & p-Xylene	0.0242		0.00399		mg/Kg		11/22/24 08:32	11/22/24 18:32	1
o-Xylene	0.0161		0.00200		mg/Kg		11/22/24 08:32	11/22/24 18:32	1
Xylenes, Total	0.0403		0.00399		mg/Kg		11/22/24 08:32	11/22/24 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				11/22/24 08:32	11/22/24 18:32	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/22/24 08:32	11/22/24 18:32	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.111		0.00399		mg/Kg			11/22/24 18:32	1
Method: SW846 8015 NM - Diese			•	MDL	I I mid	D	Drawarad	Amalumad	Dil For
Analyte Total TPH		Qualifier	49.7	MIDL			Prepared	Analyzed 11/22/24 20:56	Dil Fac
iolai iPh	<49. 7	U	49.7		mg/Kg			11/22/24 20:50	1
Method: SW846 8015B NM - Dies	ol Bango Orga	(DDO)							
	sei Kaliye Orga	nics (DRO)	(GC)						
Analyte		Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics		Qualifier	• •	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/21/24 16:11	Analyzed 11/22/24 20:56	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U	RL	MDL		<u>D</u>	<u>.</u>		1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	RL 49.7	MDL	mg/Kg	<u> </u>	11/21/24 16:11	11/22/24 20:56	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7 <49.7	Qualifier U U U	49.7 49.7	MDL	mg/Kg	<u>D</u>	11/21/24 16:11	11/22/24 20:56 11/22/24 20:56	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.7 <49.7 <49.7	Qualifier U U U	RL 49.7 49.7 49.7	MDL	mg/Kg	<u>D</u>	11/21/24 16:11 11/21/24 16:11 11/21/24 16:11	11/22/24 20:56 11/22/24 20:56 11/22/24 20:56	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <49.7 <49.7 <49.7 <49.7 <49.7 %Recovery 87	Qualifier U U U	49.7 49.7 49.7 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	11/21/24 16:11 11/21/24 16:11 11/21/24 16:11 Prepared	11/22/24 20:56 11/22/24 20:56 11/22/24 20:56 Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	Result <49.7 <49.7 <49.7 <49.7 <87.7 <67 Chromatograp	Qualifier U U Qualifier S1- Ohy - Solubl	RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130		mg/Kg mg/Kg mg/Kg		11/21/24 16:11 11/21/24 16:11 11/21/24 16:11 Prepared 11/21/24 16:11 11/21/24 16:11	11/22/24 20:56 11/22/24 20:56 11/22/24 20:56 Analyzed 11/22/24 20:56 11/22/24 20:56	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.7 <49.7 <49.7 <49.7 <87.7 <67 Chromatograp	Qualifier U U Qualifier S1- Chy - Solubl Qualifier	RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	11/21/24 16:11 11/21/24 16:11 11/21/24 16:11 Prepared 11/21/24 16:11	11/22/24 20:56 11/22/24 20:56 11/22/24 20:56 Analyzed 11/22/24 20:56	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: HA - 5

Date Collected: 11/20/24 14:05 Date Received: 11/21/24 08:02

Sample Depth: 2

Lab Sample ID: 890-7406-26 **Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00332		0.00200		mg/Kg		11/22/24 08:32	11/22/24 18:53	1
Toluene	0.00818		0.00200		mg/Kg		11/22/24 08:32	11/22/24 18:53	1
Ethylbenzene	0.00485		0.00200		mg/Kg		11/22/24 08:32	11/22/24 18:53	1
m-Xylene & p-Xylene	0.00847		0.00401		mg/Kg		11/22/24 08:32	11/22/24 18:53	1
o-Xylene	0.00483		0.00200		mg/Kg		11/22/24 08:32	11/22/24 18:53	1
Xylenes, Total	0.0133		0.00401		mg/Kg		11/22/24 08:32	11/22/24 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/22/24 08:32	11/22/24 18:53	1

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Job ID: 890-7406-1

SDG: Chaves County, NM

Client Sample ID: HA - 5

Date Collected: 11/20/24 14:05 Date Received: 11/21/24 08:02

Sample Depth: 2

Lab Sample ID: 890-7406-26

Lab Sample ID: 890-7406-28

Matrix: Solid

Matrix: Solid

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 11/22/24 08:32 1,4-Difluorobenzene (Surr) 97 11/22/24 18:53

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 0.00401 11/22/24 18:53 **Total BTEX** 0.0297 mg/Kg

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

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 50.0 11/22/24 21:11 mg/Kg

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

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <50.0 U mg/Kg Gasoline Range Organics 50.0 11/21/24 16:11 11/22/24 21:11 (GRO)-C6-C10 <50.0 U 50.0 11/21/24 16:11 11/22/24 21:11 Diesel Range Organics (Over mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/21/24 16:11 11/22/24 21:11

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 87 70 - 130 11/21/24 16:11 11/22/24 21:11 65 S1-70 - 130 11/21/24 16:11 11/22/24 21:11 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 11/23/24 06:27 mg/Kg

Client Sample ID: HA - 5

Date Collected: 11/20/24 14:15

Date Received: 11/21/24 08:02

Sample Depth: 4

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 11/22/24 08:32 11/22/24 19:13 Toluene < 0.00199 0.00199 11/22/24 08:32 11/22/24 19:13 mg/Kg Ethylbenzene <0.00199 U 0.00199 11/22/24 08:32 11/22/24 19:13 mg/Kg 11/22/24 19:13 m-Xylene & p-Xylene <0.00398 U 0.00398 11/22/24 08:32 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 11/22/24 08:32 11/22/24 19:13 Xylenes, Total <0.00398 U 0.00398 mg/Kg 11/22/24 08:32 11/22/24 19:13 %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac

70 - 130 4-Bromofluorobenzene (Surr) 126 11/22/24 08:32 11/22/24 19:13 1,4-Difluorobenzene (Surr) 96 70 - 130 11/22/24 08:32 11/22/24 19:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier MDL D RL Unit Prepared Analyzed Dil Fac Total BTEX <0.00398 0.00398 11/22/24 19:13 mg/Kg

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.8 U Total TPH 49.8 11/25/24 12:45 mg/Kg

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

<10.1 U

SDG: Chaves County, NM

11/23/24 06:35

Lab Sample ID: 890-7406-28

Matrix: Solid

Job ID: 890-7406-1

Date Received: 11/21/24 08:02 Sample Depth: 4

Client Sample ID: HA - 5

Date Collected: 11/20/24 14:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/23/24 19:25	11/25/24 12:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/23/24 19:25	11/25/24 12:45	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/23/24 19:25	11/25/24 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/23/24 19:25	11/25/24 12:45	1
o-Terphenyl	74		70 - 130				11/23/24 19:25	11/25/24 12:45	1

Lab Sample ID: 890-7406-29 Client Sample ID: HA - 5 Date Collected: 11/20/24 14:20 Matrix: Solid

10.1

mg/Kg

Date Received: 11/21/24 08:02

Sample Depth: 6

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/22/24 08:35	11/22/24 11:22	1
Toluene	< 0.00199	U F1	0.00199		mg/Kg		11/22/24 08:35	11/22/24 11:22	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/22/24 08:35	11/22/24 11:22	1
m-Xylene & p-Xylene	0.0109	F1	0.00398		mg/Kg		11/22/24 08:35	11/22/24 11:22	1
o-Xylene	0.00293	F1	0.00199		mg/Kg		11/22/24 08:35	11/22/24 11:22	1
Xylenes, Total	0.0138	F1	0.00398		mg/Kg		11/22/24 08:35	11/22/24 11:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130				11/22/24 08:35	11/22/24 11:22	1
1,4-Difluorobenzene (Surr)	118		70 - 130				11/22/24 08:35	11/22/24 11:22	1
Method: TAL SOP Total BTEX - T Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total BTEX	0.0138		0.00398		mg/Kg			11/22/24 11:22	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/25/24 13:34	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		11/23/24 19:25	11/25/24 13:34	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/23/24 19:25	11/25/24 13:34	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/23/24 19:25	11/25/24 13:34	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				11/23/24 19:25	11/25/24 13:34	1
	79		70 - 130				11/23/24 19:25	11/25/24 13:34	1

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Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Job ID: 890-7406-1

SDG: Chaves County, NM

Lab Sample ID: 890-7406-29 Client Sample ID: HA - 5 Date Collected: 11/20/24 14:20

Matrix: Solid

Date Received: 11/21/24 08:02 Sample Depth: 6

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			11/23/24 06:43	1

Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 890-7406-1

Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

SDG: Chaves County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7406-1	HA - 1	124	93	
890-7406-3	HA - 1	248 S1+	64 S1-	
890-7406-5	HA - 1	151 S1+	96	
890-7406-6	HA - 1	147 S1+	95	
890-7406-7	HA - 2	153 S1+	96	
890-7406-9	HA - 2	149 S1+	97	
890-7406-11	HA - 2	153 S1+	95	
890-7406-12	HA - 2	131 S1+	96	
890-7406-12 MS	HA - 2	119	96	
890-7406-12 MSD	HA - 2	119	96	
890-7406-13	HA - 3	100	82	
890-7406-15	HA - 3	122	98	
890-7406-17	HA - 3	132 S1+	96	
890-7406-18	HA - 4	127	96	
890-7406-20	HA - 4	132 S1+	95	
890-7406-22	HA - 4	126	98	
890-7406-23	HA - 4	128	96	
890-7406-24	HA - 5	136 S1+	97	
890-7406-26	HA - 5	129	97	
890-7406-28	HA - 5	126	96	
890-7406-29	HA - 5	63 S1-	118	
890-7406-29 MS	HA - 5	96	101	
890-7406-29 MSD	HA - 5	103	103	
LCS 880-96355/1-A	Lab Control Sample	117	96	
LCS 880-96356/1-A	Lab Control Sample	92	105	
LCS 880-96443/1-A	Lab Control Sample	120	95	
LCSD 880-96355/2-A	Lab Control Sample Dup	118	97	
LCSD 880-96356/2-A	Lab Control Sample Dup	95	104	
LCSD 880-96443/2-A	Lab Control Sample Dup	124	95	
MB 880-96355/5-A	Method Blank	122	93	
MB 880-96356/5-A	Method Blank	107	87	
MB 880-96443/25-A	Method Blank	128	92	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

-			
		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7406-1	HA - 1	84	73
890-7406-3	HA - 1	80	61 S1-
890-7406-5	HA - 1	82	63 S1-
890-7406-6	HA - 1	76	59 S1-
890-7406-7	HA - 2	80	60 S1-
890-7406-9	HA - 2	83	63 S1-
890-7406-11	HA - 2	86	66 S1-

Surrogate Summary

Client: Earth Systems Response and Restoration Job ID: 890-7406-1 Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) SDG: Chaves County, NM

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7406-12	HA - 2	82	62 S1-	
890-7406-12 MS	HA - 2	75	64 S1-	
890-7406-12 MSD	HA - 2	74	62 S1-	
390-7406-13	HA - 3	79	59 S1-	
390-7406-15	HA - 3	83	64 S1-	
390-7406-17	HA - 3	77	59 S1-	
390-7406-18	HA - 4	87	66 S1-	
390-7406-20	HA - 4	83	64 S1-	
390-7406-22	HA - 4	89	66 S1-	
390-7406-23	HA - 4	80	61 S1-	
390-7406-24	HA - 5	87	67 S1-	
390-7406-26	HA - 5	87	65 S1-	
390-7406-28	HA - 5	94	74	
90-7406-28 MS	HA - 5	87	74	
90-7406-28 MSD	HA - 5	87	74	
90-7406-29	HA - 5	106	79	
CS 880-96192/2-A	Lab Control Sample	101	93	
CS 880-96301/2-A	Lab Control Sample	108	99	
.CS 880-96448/2-A	Lab Control Sample	90	82	
CSD 880-96192/3-A	Lab Control Sample Dup	94	84	
CSD 880-96301/3-A	Lab Control Sample Dup	100	89	
.CSD 880-96448/3-A	Lab Control Sample Dup	90	80	
MB 880-96192/1-A	Method Blank	95	78	
/IB 880-96301/1-A	Method Blank	99	80	
MB 880-96448/1-A	Method Blank	87	72	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Earth Systems Response and Restoration Job ID: 890-7406-1 Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) SDG: Chaves County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-96355/5-A

Matrix: Solid

Analysis Batch: 96346

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96355

		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		11/22/24 08:32	11/22/24 11:10	1
	Toluene	<0.00200	U	0.00200		mg/Kg		11/22/24 08:32	11/22/24 11:10	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/24 08:32	11/22/24 11:10	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/22/24 08:32	11/22/24 11:10	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/24 08:32	11/22/24 11:10	1
	Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/22/24 08:32	11/22/24 11:10	1
ı										

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	11/22/24 08:32	11/22/24 11:10	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/22/24 08:32	11/22/24 11:10	1

Lab Sample ID: LCS 880-96355/1-A

Matrix: Solid

Analysis Batch: 96346

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96355

	Spike	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1296		mg/Kg		130	70 - 130	
Toluene	0.100	0.1221		mg/Kg		122	70 - 130	
Ethylbenzene	0.100	0.1195		mg/Kg		120	70 - 130	
m-Xylene & p-Xylene	0.200	0.2511		mg/Kg		126	70 - 130	
o-Xylene	0.100	0.1220		mg/Kg		122	70 - 130	

LCS LCS

Surrogate	%Recovery Qual	lifier Limits
4-Bromofluorobenzene (Surr)	117	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: LCSD 880-96355/2-A

Matrix: Solid

Analysis Batch: 96346

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96355

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1307	*+	mg/Kg		131	70 - 130	1	35
Toluene	0.100	0.1225		mg/Kg		123	70 - 130	0	35
Ethylbenzene	0.100	0.1211		mg/Kg		121	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2517		mg/Kg		126	70 - 130	0	35
o-Xylene	0.100	0.1230		mg/Kg		123	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-7406-12 MS

Matrix: Solid

Analysis Batch: 96346

Client Sample ID: HA - 2 Prep Type: Total/NA

Prep Batch: 96355

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *+	0.0996	0.1181		mg/Kg		119	70 - 130	
Toluene	<0.00200	U	0.0996	0.1111		mg/Kg		112	70 - 130	

Job ID: 890-7406-1 Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) SDG: Chaves County, NM

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

Lab Sample ID: 890-7406-12 MS

Matrix: Solid

Analysis Batch: 96346

Client Sample ID: HA - 2 Prep Type: Total/NA

Prep Batch: 96355

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U 0.0996 0.1097 110 70 - 130 mg/Kg m-Xylene & p-Xylene 0.00517 0.199 0.2283 mg/Kg 112 70 - 130 <0.00200 U 0.0996 o-Xylene 0.1114 112 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: 890-7406-12 MSD Client Sample ID: HA - 2 **Matrix: Solid** Prep Type: Total/NA Prep Batch: 96355

Analysis Batch: 96346

Sam	ple Sample	Spike	MSD	MSD				%Rec		RPD
Analyte Re:	ult Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene <0.00	200 U*+	0.100	0.1211		mg/Kg		121	70 - 130	2	35
Toluene <0.00	200 U	0.100	0.1132		mg/Kg		113	70 - 130	2	35
Ethylbenzene <0.00	200 U	0.100	0.1120		mg/Kg		112	70 - 130	2	35
m-Xylene & p-Xylene 0.00	517	0.200	0.2322		mg/Kg		113	70 - 130	2	35
o-Xylene <0.00	200 U	0.100	0.1124		mg/Kg		112	70 - 130	1	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-96356/5-A

Matrix: Solid

Analysis Batch: 96345

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

Prep Batch: 96356

Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac RL Benzene <0.00200 U 0.00200 mg/Kg 11/22/24 08:35 11/22/24 11:01 Toluene <0.00200 U 0.00200 mg/Kg 11/22/24 08:35 11/22/24 11:01 Ethylbenzene <0.00200 U 0.00200 mg/Kg 11/22/24 08:35 11/22/24 11:01 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 11/22/24 08:35 11/22/24 11:01 11/22/24 11:01 0.00200 11/22/24 08:35 o-Xylene <0.00200 U mg/Kg <0.00400 U 0.00400 Xylenes, Total mg/Kg 11/22/24 08:35 11/22/24 11:01

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	11/22/24 08:35	11/22/24 11:01	1
1,4-Difluorobenzene (Surr)	87		70 - 130	11/22/24 08:35	11/22/24 11:01	1

Lab Sample ID: LCS 880-96356/1-A

Matrix: Solid

Analysis Batch: 96345

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

Prep Batch: 96356

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1144		mg/Kg		114	70 - 130	
Toluene	0.100	0.1025		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1042		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.2068		mg/Kg		103	70 - 130	

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Job ID: 890-7406-1 SDG: Chaves County, NM

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

Lab Sample ID: LCS 880-96356/1-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 96345 Prep Batch: 96356

	Spike	LCS LC	CS			%Rec	
Analyte	Added	Result Q	ualifier Un	it D	%Rec	Limits	
o-Xylene	0.100	0.1052		J/Kg	105	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-96356/2-A **Matrix: Solid** Prep Type: Total/NA Prep Batch: 96356 **Analysis Batch: 96345**

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1225		mg/Kg		123	70 - 130	7	35
Toluene	0.100	0.1121		mg/Kg		112	70 - 130	9	35
Ethylbenzene	0.100	0.1136		mg/Kg		114	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2249		mg/Kg		112	70 - 130	8	35
o-Xylene	0.100	0.1142		mg/Kg		114	70 - 130	8	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-7406-29 MS Client Sample ID: HA - 5 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 96345

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Benzene <0.00199 U 0.0996 0.1059 mg/Kg 96 70 - 130 Toluene <0.00199 UF1 0.0996 0.09642 F1 mg/Kg 63 70 - 130 Ethylbenzene <0.00199 U 0.0996 0.09761 mg/Kg 71 70 - 130 m-Xylene & p-Xylene 0.0109 F1 0.199 0.1947 F1 mg/Kg 14 70 - 130 54 70 - 130

o-Xylene	0.00293	F1	0.0996	0.09886 F1	mg/Kg	
	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
4-Bromofluorobenzene (Surr)	96		70 - 130			
1,4-Difluorobenzene (Surr)	101		70 - 130			

Lab Sample ID: 890-7406-29 MSD

Analysis Batch: 96345

Matrix: Solid

Prep Batch: 96356 Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Result Qualifier Added %Rec Limit Analyte Unit Limits RPD Benzene <0.00199 U 0.100 0.1148 mg/Kg 104 70 - 130 8 35 Toluene 0.100 0.1045 <0.00199 UF1 71 70 - 13035 mg/Kg 8 Ethylbenzene <0.00199 U 0.100 0.1061 mg/Kg 79 70 - 130 35 0.0109 F1 m-Xylene & p-Xylene 0.200 0.2116 F1 mg/Kg 22 70 - 130 8 35 o-Xylene 0.00293 F1 0.100 0.1082 F1 mg/Kg 63 70 - 130 35

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Prep Batch: 96356

Client Sample ID: HA - 5

Prep Type: Total/NA

Job ID: 890-7406-1 Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) SDG: Chaves County, NM

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

Lab Sample ID: 890-7406-29 MSD

Matrix: Solid

Analysis Batch: 96345

Client Sample ID: HA - 5 **Prep Type: Total/NA**

Prep Batch: 96356

MSD MSD

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

Lab Sample ID: MB 880-96443/25-A

Matrix: Solid

Analysis Batch: 96439

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96443

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/23/24 16:48	11/23/24 19:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/23/24 16:48	11/23/24 19:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/23/24 16:48	11/23/24 19:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/23/24 16:48	11/23/24 19:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/23/24 16:48	11/23/24 19:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/23/24 16:48	11/23/24 19:56	1

MB MB

Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128	70 - 130	11/23/24 16:48	11/23/24 19:56	1
1,4-Difluorobenzene (Surr)	92	70 - 130	11/23/24 16:48	11/23/24 19:56	1

Lab Sample ID: LCS 880-96443/1-A

Matrix: Solid

Analysis Batch: 96439

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96443

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1181		mg/Kg		118	70 - 130	
Toluene	0.100	0.1104		mg/Kg		110	70 - 130	
Ethylbenzene	0.100	0.1117		mg/Kg		112	70 - 130	
m-Xylene & p-Xylene	0.200	0.2294		mg/Kg		115	70 - 130	
o-Xylene	0.100	0.1125		mg/Kg		112	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	120	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: LCSD 880-96443/2-A

Matrix: Solid

Analysis Batch: 96439

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96443

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1265		mg/Kg		127	70 - 130	7	35
Toluene	0.100	0.1175		mg/Kg		117	70 - 130	6	35
Ethylbenzene	0.100	0.1191		mg/Kg		119	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2454		mg/Kg		123	70 - 130	7	35
o-Xylene	0.100	0.1203		mg/Kg		120	70 - 130	7	35

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 124 70 - 130

Client: Earth Systems Response and Restoration Job ID: 890-7406-1 Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) SDG: Chaves County, NM

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

Lab Sample ID: LCSD 880-96443/2-A

Matrix: Solid

Analysis Batch: 96439

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96443

LCSD LCSD

95

78

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

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

Lab Sample ID: MB 880-96192/1-A

Matrix: Solid

Analysis Batch: 96260

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

Prep Batch: 96192

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/20/24 13:57	11/21/24 01:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/20/24 13:57	11/21/24 01:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/20/24 13:57	11/21/24 01:05	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

Lab Sample ID: LCS 880-96192/2-A

Matrix: Solid

1-Chlorooctane

o-Terphenyl

Analysis Batch: 96260

Client Sample ID: Lab Control Sample

11/21/24 01:05

11/21/24 01:05

11/20/24 13:57

11/20/24 13:57

Prep Type: Total/NA

Prep Batch: 96192

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1043		mg/Kg		104	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	819.1		mg/Kg		82	70 - 130	
C10-C28)								

LCS LCS

Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 101 70 - 130 o-Terphenyl 93

Lab Sample ID: LCSD 880-96192/3-A

Released to Imaging: 2/18/2025 4:19:59 PM

Matrix: Solid

Analysis Batch: 96260

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

Prep Batch: 96192

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1025		mg/Kg		102	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	806.3		mg/Kg		81	70 - 130	2	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	84		70 - 130

Job ID: 890-7406-1 Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) SDG: Chaves County, NM

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

80

Lab Sample ID: MB 880-96301/1-A

Lab Sample ID: LCS 880-96301/2-A

Matrix: Solid Analysis Batch: 96433

o-Terphenyl

Matrix: Solid

Analysis Batch: 96433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96301

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/21/24 16:11	11/22/24 10:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/21/24 16:11	11/22/24 10:45	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/21/24 16:11	11/22/24 10:45	1
	MD	MD							
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/21/24 16:11	11/22/24 10:45	1

Client Sample ID: Lab Control Sample

11/22/24 10:45

11/21/24 16:11

Prep Type: Total/NA

Prep Batch: 96301

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1000 1112 111 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 964.1 mg/Kg 96 70 - 130C10-C28)

70 - 130

LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 108 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: LCSD 880-96301/3-A

Matrix: Solid

Analysis Batch: 96433

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 96301

LCSD LCSD Spike %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Gasoline Range Organics 1000 1063 mg/Kg 106 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 850.0 mg/Kg 85 70 - 130 13 20 C10-C28)

LCSD LCSD

Qualifier Limits %Recovery Surrogate 70 - 130 1-Chlorooctane 100 70 - 130 o-Terphenyl 89

Lab Sample ID: 890-7406-12 MS Client Sample ID: HA - 2 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 96433 Prep Batch: 96301

Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Added Analyte Unit %Rec Limits Gasoline Range Organics <49.9 U 995 817.2 82 70 - 130 mg/Kg (GRO)-C6-C10 <49.9 UF1 995 Diesel Range Organics (Over 689.2 F1 mg/Kg 70 - 130 C10-C28)

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Job ID: 890-7406-1

SDG: Chaves County, NM

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

Lab Sample ID: 890-7406-12 MS

Matrix: Solid

Analysis Batch: 96433

Client Sample ID: HA - 2 Prep Type: Total/NA

Prep Batch: 96301

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 75 70 - 130 o-Terphenyl 64 S1-70 - 130

Client Sample ID: HA - 2

Lab Sample ID: 890-7406-12 MSD **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 96433 Prep Batch: 96301 MSD MSD RPD

Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U 995 821.9 83 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 995 674.6 F1 68 <49.9 U F1 mg/Kg 70 - 1302 20 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 74 62 S1-70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96448

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/23/24 19:25 11/25/24 09:50 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 11/23/24 19:25 11/25/24 09:50 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 11/23/24 19:25 11/25/24 09:50 mg/Kg

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 11/25/24 09:50 1-Chlorooctane 87 70 - 130 11/23/24 19:25 72 70 - 130 11/23/24 19:25 o-Terphenyl 11/25/24 09:50

Lab Sample ID: LCS 880-96448/2-A

Matrix: Solid

Lab Sample ID: MB 880-96448/1-A

Matrix: Solid

Analysis Batch: 96449

Analysis Batch: 96449

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

Prep Batch: 96448

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits D 1000 Gasoline Range Organics 992.8 99 70 - 130 mg/Kg (GRO)-C6-C10 1000 819.3 82 70 - 130 Diesel Range Organics (Over mg/Kg C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	82		70 - 130

Surrogate

o-Terphenyl

1-Chlorooctane

QC Sample Results

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) Job ID: 890-7406-1

SDG: Chaves County, NM

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

%Recovery

90

80

Qualifier

Lab Sample ID: LCSD 880-96448/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 96449 Prep Batch: 96448 Spike LCSD LCSD RPD Limit Analyte Added Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics 1000 1011 mg/Kg 101 70 - 130 2 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 788.9 79 70 - 130 mg/Kg 4 20 C10-C28) LCSD LCSD

Lab Sample ID: 890-7406-28 MS Client Sample ID: HA - 5 **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 96449** Prep Batch: 96448

Spike MS MS %Rec Sample Sample

Limits

70 - 130

70 - 130

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1010 Gasoline Range Organics <49.8 U 923.8 mg/Kg 92 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 1010 790.5 mg/Kg 77 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 87 70 - 130 o-Terphenyl 74 70 - 130

Lab Sample ID: 890-7406-28 MSD Client Sample ID: HA - 5 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 96449 Prep Batch: 96448

	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	<49.8	U	1010	944.1		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	784.5		mg/Kg		77	70 - 130	1	20

MSD MSD Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 87 74 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-96359/1-A Client Sample ID: Method Blank Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 96370

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		ma/Ka			11/22/24 21:53	1

Job ID: 890-7406-1 SDG: Chaves County, NM

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-96359/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 96370

LCS LCS Spike %Rec Analyte Added Result Qualifier %Rec Limits Unit D Chloride 250 255.1 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-96359/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 96370

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 255.6 mg/Kg 102 0

Lab Sample ID: 890-7406-1 MS Client Sample ID: HA - 1 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 96370

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride 19.8 248 269.9 101 90 - 110 ma/Ka

Lab Sample ID: 890-7406-1 MSD

Matrix: Solid

Analysis Batch: 96370

MSD MSD RPD Spike %Rec Sample Sample Added RPD Analyte Result Qualifier Result Qualifie Unit D %Rec Limits Limit Chloride 19.8 248 270.4 101 90 - 110 20 mg/Kg

Lab Sample ID: 890-7406-17 MS

Matrix: Solid

Analysis Batch: 96370

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits U Chloride <9.92 248 255.3 102 90 - 110 mg/Kg

Lab Sample ID: 890-7406-17 MSD

Matrix: Solid

Analysis Batch: 96370

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride <9.92 U 248 255.6 mg/Kg 102 90 - 110

Lab Sample ID: MB 880-96376/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 96380

мв мв Result Qualifier

RL MDL Dil Fac Analyte Unit Prepared Analyzed Chloride <10.0 10.0 11/23/24 02:38 mg/Kg

Lab Sample ID: LCS 880-96376/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 96380

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 247.5 mg/Kg 99 90 - 110

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Client Sample ID: HA - 1

Client Sample ID: HA - 3

Client Sample ID: HA - 3

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client: Earth Systems Response and Restoration Job ID: 890-7406-1 Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) SDG: Chaves County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-96376/3-A	Client Sample ID: Lab Control Sample Dup
Matrix: Solid	Prep Type: Soluble
Analysis Batch: 96380	

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	247.9		mg/Kg		99	90 - 110	0	20

Job ID: 890-7406-1 Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) SDG: Chaves County, NM

GC VOA

Analysis Batch: 96345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-29	HA - 5	Total/NA	Solid	8021B	96356
MB 880-96356/5-A	Method Blank	Total/NA	Solid	8021B	96356
LCS 880-96356/1-A	Lab Control Sample	Total/NA	Solid	8021B	96356
LCSD 880-96356/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96356
890-7406-29 MS	HA - 5	Total/NA	Solid	8021B	96356
890-7406-29 MSD	HA - 5	Total/NA	Solid	8021B	96356

Analysis Batch: 96346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-1	HA - 1	Total/NA	Solid	8021B	96355
890-7406-12	HA - 2	Total/NA	Solid	8021B	96355
890-7406-13	HA - 3	Total/NA	Solid	8021B	96355
890-7406-15	HA - 3	Total/NA	Solid	8021B	96355
890-7406-17	HA - 3	Total/NA	Solid	8021B	96355
890-7406-18	HA - 4	Total/NA	Solid	8021B	96355
890-7406-20	HA - 4	Total/NA	Solid	8021B	96355
890-7406-22	HA - 4	Total/NA	Solid	8021B	96355
890-7406-23	HA - 4	Total/NA	Solid	8021B	96355
890-7406-24	HA - 5	Total/NA	Solid	8021B	96355
890-7406-26	HA - 5	Total/NA	Solid	8021B	96355
890-7406-28	HA - 5	Total/NA	Solid	8021B	96355
MB 880-96355/5-A	Method Blank	Total/NA	Solid	8021B	96355
LCS 880-96355/1-A	Lab Control Sample	Total/NA	Solid	8021B	96355
LCSD 880-96355/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96355
890-7406-12 MS	HA - 2	Total/NA	Solid	8021B	96355
890-7406-12 MSD	HA - 2	Total/NA	Solid	8021B	96355

Prep Batch: 96355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-7406-1	HA - 1	Total/NA	Solid	5035	
890-7406-12	HA - 2	Total/NA	Solid	5035	
890-7406-13	HA - 3	Total/NA	Solid	5035	
890-7406-15	HA - 3	Total/NA	Solid	5035	
890-7406-17	HA - 3	Total/NA	Solid	5035	
890-7406-18	HA - 4	Total/NA	Solid	5035	
890-7406-20	HA - 4	Total/NA	Solid	5035	
890-7406-22	HA - 4	Total/NA	Solid	5035	
890-7406-23	HA - 4	Total/NA	Solid	5035	
390-7406-24	HA - 5	Total/NA	Solid	5035	
890-7406-26	HA - 5	Total/NA	Solid	5035	
890-7406-28	HA - 5	Total/NA	Solid	5035	
MB 880-96355/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96355/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96355/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7406-12 MS	HA - 2	Total/NA	Solid	5035	
890-7406-12 MSD	HA - 2	Total/NA	Solid	5035	

Prep Batch: 96356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-29	HA - 5	Total/NA	Solid	5035	
MB 880-96356/5-A	Method Blank	Total/NA	Solid	5035	

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Job ID: 890-7406-1

QC Association Summary

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT) SDG: Chaves County, NM

GC VOA (Continued)

Prep Batch: 96356 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-96356/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96356/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7406-29 MS	HA - 5	Total/NA	Solid	5035	
890-7406-29 MSD	HA - 5	Total/NA	Solid	5035	

Analysis Batch: 96439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-3	HA - 1	Total/NA	Solid	8021B	96443
890-7406-5	HA - 1	Total/NA	Solid	8021B	96443
890-7406-6	HA - 1	Total/NA	Solid	8021B	96443
890-7406-7	HA - 2	Total/NA	Solid	8021B	96443
890-7406-9	HA - 2	Total/NA	Solid	8021B	96443
890-7406-11	HA - 2	Total/NA	Solid	8021B	96443
MB 880-96443/25-A	Method Blank	Total/NA	Solid	8021B	96443
LCS 880-96443/1-A	Lab Control Sample	Total/NA	Solid	8021B	96443
LCSD 880-96443/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96443

Prep Batch: 96443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-7406-3	HA - 1	Total/NA	Solid	5035	
890-7406-5	HA - 1	Total/NA	Solid	5035	
890-7406-6	HA - 1	Total/NA	Solid	5035	
890-7406-7	HA - 2	Total/NA	Solid	5035	
890-7406-9	HA - 2	Total/NA	Solid	5035	
890-7406-11	HA - 2	Total/NA	Solid	5035	
MB 880-96443/25-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96443/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96443/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 96537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-7406-1	HA - 1	Total/NA	Solid	Total BTEX	
890-7406-3	HA - 1	Total/NA	Solid	Total BTEX	
890-7406-5	HA - 1	Total/NA	Solid	Total BTEX	
890-7406-6	HA - 1	Total/NA	Solid	Total BTEX	
890-7406-7	HA - 2	Total/NA	Solid	Total BTEX	
890-7406-9	HA - 2	Total/NA	Solid	Total BTEX	
890-7406-11	HA - 2	Total/NA	Solid	Total BTEX	
890-7406-12	HA - 2	Total/NA	Solid	Total BTEX	
890-7406-13	HA - 3	Total/NA	Solid	Total BTEX	
890-7406-15	HA - 3	Total/NA	Solid	Total BTEX	
890-7406-17	HA - 3	Total/NA	Solid	Total BTEX	
890-7406-18	HA - 4	Total/NA	Solid	Total BTEX	
890-7406-20	HA - 4	Total/NA	Solid	Total BTEX	
890-7406-22	HA - 4	Total/NA	Solid	Total BTEX	
890-7406-23	HA - 4	Total/NA	Solid	Total BTEX	
890-7406-24	HA - 5	Total/NA	Solid	Total BTEX	
890-7406-26	HA - 5	Total/NA	Solid	Total BTEX	
890-7406-28	HA - 5	Total/NA	Solid	Total BTEX	
890-7406-29	HA - 5	Total/NA	Solid	Total BTEX	

Client: Earth Systems Response and Restoration

Job ID: 890-7406-1

Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

SDG: Chaves County, NM

GC Semi VOA

Prep Batch: 96192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-1	HA - 1	Total/NA	Solid	8015NM Prep	
890-7406-3	HA - 1	Total/NA	Solid	8015NM Prep	
890-7406-5	HA - 1	Total/NA	Solid	8015NM Prep	
890-7406-6	HA - 1	Total/NA	Solid	8015NM Prep	
890-7406-7	HA - 2	Total/NA	Solid	8015NM Prep	
890-7406-9	HA - 2	Total/NA	Solid	8015NM Prep	
890-7406-11	HA - 2	Total/NA	Solid	8015NM Prep	
MB 880-96192/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96192/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96192/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-1	HA - 1	Total/NA	Solid	8015B NM	96192
890-7406-3	HA - 1	Total/NA	Solid	8015B NM	96192
890-7406-5	HA - 1	Total/NA	Solid	8015B NM	96192
890-7406-6	HA - 1	Total/NA	Solid	8015B NM	96192
890-7406-7	HA - 2	Total/NA	Solid	8015B NM	96192
890-7406-9	HA - 2	Total/NA	Solid	8015B NM	96192
890-7406-11	HA - 2	Total/NA	Solid	8015B NM	96192
MB 880-96192/1-A	Method Blank	Total/NA	Solid	8015B NM	96192
LCS 880-96192/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96192
LCSD 880-96192/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96192

Prep Batch: 96301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-12	HA - 2	Total/NA	Solid	8015NM Prep	
890-7406-13	HA - 3	Total/NA	Solid	8015NM Prep	
890-7406-15	HA - 3	Total/NA	Solid	8015NM Prep	
890-7406-17	HA - 3	Total/NA	Solid	8015NM Prep	
890-7406-18	HA - 4	Total/NA	Solid	8015NM Prep	
890-7406-20	HA - 4	Total/NA	Solid	8015NM Prep	
890-7406-22	HA - 4	Total/NA	Solid	8015NM Prep	
890-7406-23	HA - 4	Total/NA	Solid	8015NM Prep	
890-7406-24	HA - 5	Total/NA	Solid	8015NM Prep	
890-7406-26	HA - 5	Total/NA	Solid	8015NM Prep	
MB 880-96301/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96301/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96301/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7406-12 MS	HA - 2	Total/NA	Solid	8015NM Prep	
890-7406-12 MSD	HA - 2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-1	HA - 1	Total/NA	Solid	8015 NM	
890-7406-3	HA - 1	Total/NA	Solid	8015 NM	
890-7406-5	HA - 1	Total/NA	Solid	8015 NM	
890-7406-6	HA - 1	Total/NA	Solid	8015 NM	
890-7406-7	HA - 2	Total/NA	Solid	8015 NM	
890-7406-9	HA - 2	Total/NA	Solid	8015 NM	
890-7406-11	HA - 2	Total/NA	Solid	8015 NM	

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11/27/2024

Client: Earth Systems Response and Restoration

Job ID: 890-7406-1

Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

SDG: Chaves County, NM

GC Semi VOA (Continued)

Analysis Batch: 96326 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-12	HA - 2	Total/NA	Solid	8015 NM	
890-7406-13	HA - 3	Total/NA	Solid	8015 NM	
890-7406-15	HA - 3	Total/NA	Solid	8015 NM	
890-7406-17	HA - 3	Total/NA	Solid	8015 NM	
890-7406-18	HA - 4	Total/NA	Solid	8015 NM	
890-7406-20	HA - 4	Total/NA	Solid	8015 NM	
890-7406-22	HA - 4	Total/NA	Solid	8015 NM	
890-7406-23	HA - 4	Total/NA	Solid	8015 NM	
890-7406-24	HA - 5	Total/NA	Solid	8015 NM	
890-7406-26	HA - 5	Total/NA	Solid	8015 NM	
890-7406-28	HA - 5	Total/NA	Solid	8015 NM	
890-7406-29	HA - 5	Total/NA	Solid	8015 NM	

Analysis Batch: 96433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-12	HA - 2	Total/NA	Solid	8015B NM	96301
890-7406-13	HA - 3	Total/NA	Solid	8015B NM	96301
890-7406-15	HA - 3	Total/NA	Solid	8015B NM	96301
890-7406-17	HA - 3	Total/NA	Solid	8015B NM	96301
890-7406-18	HA - 4	Total/NA	Solid	8015B NM	96301
890-7406-20	HA - 4	Total/NA	Solid	8015B NM	96301
890-7406-22	HA - 4	Total/NA	Solid	8015B NM	96301
890-7406-23	HA - 4	Total/NA	Solid	8015B NM	96301
890-7406-24	HA - 5	Total/NA	Solid	8015B NM	96301
890-7406-26	HA - 5	Total/NA	Solid	8015B NM	96301
MB 880-96301/1-A	Method Blank	Total/NA	Solid	8015B NM	96301
LCS 880-96301/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96301
LCSD 880-96301/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96301
890-7406-12 MS	HA - 2	Total/NA	Solid	8015B NM	96301
890-7406-12 MSD	HA - 2	Total/NA	Solid	8015B NM	96301

Prep Batch: 96448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-28	HA - 5	Total/NA	Solid	8015NM Prep	
890-7406-29	HA - 5	Total/NA	Solid	8015NM Prep	
MB 880-96448/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96448/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96448/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7406-28 MS	HA - 5	Total/NA	Solid	8015NM Prep	
890-7406-28 MSD	HA - 5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-28	HA - 5	Total/NA	Solid	8015B NM	96448
890-7406-29	HA - 5	Total/NA	Solid	8015B NM	96448
MB 880-96448/1-A	Method Blank	Total/NA	Solid	8015B NM	96448
LCS 880-96448/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96448
LCSD 880-96448/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96448
890-7406-28 MS	HA - 5	Total/NA	Solid	8015B NM	96448
890-7406-28 MSD	HA - 5	Total/NA	Solid	8015B NM	96448

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Client: Earth Systems Response and Restoration

Job ID: 890-7406-1

Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

SDG: Chaves County, NM

HPLC/IC

Leach Batch: 96359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-7406-1	HA - 1	Soluble	Solid	DI Leach	_
890-7406-3	HA - 1	Soluble	Solid	DI Leach	
890-7406-5	HA - 1	Soluble	Solid	DI Leach	
890-7406-6	HA - 1	Soluble	Solid	DI Leach	
890-7406-7	HA - 2	Soluble	Solid	DI Leach	
890-7406-9	HA - 2	Soluble	Solid	DI Leach	
890-7406-11	HA - 2	Soluble	Solid	DI Leach	
890-7406-12	HA - 2	Soluble	Solid	DI Leach	
890-7406-13	HA - 3	Soluble	Solid	DI Leach	
890-7406-15	HA - 3	Soluble	Solid	DI Leach	
890-7406-17	HA - 3	Soluble	Solid	DI Leach	
890-7406-18	HA - 4	Soluble	Solid	DI Leach	
890-7406-20	HA - 4	Soluble	Solid	DI Leach	
890-7406-22	HA - 4	Soluble	Solid	DI Leach	
890-7406-23	HA - 4	Soluble	Solid	DI Leach	
MB 880-96359/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96359/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96359/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7406-1 MS	HA - 1	Soluble	Solid	DI Leach	
890-7406-1 MSD	HA - 1	Soluble	Solid	DI Leach	
890-7406-17 MS	HA - 3	Soluble	Solid	DI Leach	
890-7406-17 MSD	HA - 3	Soluble	Solid	DI Leach	

Analysis Batch: 96370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-7406-1	HA - 1	Soluble	Solid	300.0	96359
890-7406-3	HA - 1	Soluble	Solid	300.0	96359
890-7406-5	HA - 1	Soluble	Solid	300.0	96359
890-7406-6	HA - 1	Soluble	Solid	300.0	96359
890-7406-7	HA - 2	Soluble	Solid	300.0	96359
890-7406-9	HA - 2	Soluble	Solid	300.0	96359
890-7406-11	HA - 2	Soluble	Solid	300.0	96359
890-7406-12	HA - 2	Soluble	Solid	300.0	96359
890-7406-13	HA - 3	Soluble	Solid	300.0	96359
890-7406-15	HA - 3	Soluble	Solid	300.0	96359
890-7406-17	HA - 3	Soluble	Solid	300.0	96359
890-7406-18	HA - 4	Soluble	Solid	300.0	96359
890-7406-20	HA - 4	Soluble	Solid	300.0	96359
890-7406-22	HA - 4	Soluble	Solid	300.0	96359
890-7406-23	HA - 4	Soluble	Solid	300.0	96359
MB 880-96359/1-A	Method Blank	Soluble	Solid	300.0	96359
LCS 880-96359/2-A	Lab Control Sample	Soluble	Solid	300.0	96359
LCSD 880-96359/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96359
890-7406-1 MS	HA - 1	Soluble	Solid	300.0	96359
890-7406-1 MSD	HA - 1	Soluble	Solid	300.0	96359
890-7406-17 MS	HA - 3	Soluble	Solid	300.0	96359
890-7406-17 MSD	HA - 3	Soluble	Solid	300.0	96359

Leach Batch: 96376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-24	HA - 5	Soluble	Solid	DI Leach	

Client: Earth Systems Response and Restoration

Job ID: 890-7406-1

Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

SDG: Chaves County, NM

HPLC/IC (Continued)

Leach Batch: 96376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-26	HA - 5	Soluble	Solid	DI Leach	
890-7406-28	HA - 5	Soluble	Solid	DI Leach	
890-7406-29	HA - 5	Soluble	Solid	DI Leach	
MB 880-96376/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96376/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96376/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 96380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7406-24	HA - 5	Soluble	Solid	300.0	96376
890-7406-26	HA - 5	Soluble	Solid	300.0	96376
890-7406-28	HA - 5	Soluble	Solid	300.0	96376
890-7406-29	HA - 5	Soluble	Solid	300.0	96376
MB 880-96376/1-A	Method Blank	Soluble	Solid	300.0	96376
LCS 880-96376/2-A	Lab Control Sample	Soluble	Solid	300.0	96376
LCSD 880-96376/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96376

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Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Lab Sample ID: 890-7406-1

Matrix: Solid

Client Sample ID: HA - 1

Date Collected: 11/20/24 12:00 Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	96355	11/22/24 08:32	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	96346	11/22/24 14:15	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 14:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/21/24 23:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96192	11/20/24 13:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96260	11/21/24 23:55	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/22/24 22:17	SMC	EET MID

Client Sample ID: HA - 1 Lab Sample ID: 890-7406-3 Date Collected: 11/20/24 12:10 Matrix: Solid

Date Received: 11/21/24 08:02

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.05 g 5 mL 96443 11/23/24 16:48 EL EET MID Total/NA 8021B **EET MID** Analysis 10 5 mL 5 mL 96439 11/24/24 02:17 EL Total/NA Total BTEX 96537 SM Analysis 11/24/24 02:17 **EET MID** 1 Total/NA Analysis 8015 NM 96326 11/22/24 00:11 SM **EET MID** Total/NA 96192 8015NM Prep 10.06 g 11/20/24 13:57 FΙ **EET MID** Prep 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 96260 11/22/24 00:11 TKC **EET MID** Soluble Leach DI Leach 4.95 g 50 mL 96359 11/22/24 09:02 SA EET MID Soluble Analysis 300.0 50 mL 50 mL 96370 11/22/24 22:42 SMC **EET MID**

Client Sample ID: HA - 1 Lab Sample ID: 890-7406-5 Date Collected: 11/20/24 12:20 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	96443	11/23/24 16:48	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	96439	11/24/24 02:38	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/24/24 02:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 00:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96192	11/20/24 13:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96260	11/22/24 00:27	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/22/24 22:50	SMC	EET MID

Client Sample ID: HA - 1 Lab Sample ID: 890-7406-6 Date Collected: 11/20/24 12:25 **Matrix: Solid**

Date Received: 11/21/24 08:02

Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	96443	11/23/24 16:48	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	96439	11/24/24 02:58	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/24/24 02:58	SM	EET MID

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Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Client Sample ID: HA - 1

Date Collected: 11/20/24 12:25 Date Received: 11/21/24 08:02

Job ID: 890-7406-1 SDG: Chaves County, NM

Lab Sample ID: 890-7406-6

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			96326	11/22/24 00:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	96192	11/20/24 13:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96260	11/22/24 00:43	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/22/24 22:58	SMC	EET MID

Client Sample ID: HA - 2 Lab Sample ID: 890-7406-7 **Matrix: Solid**

Date Collected: 11/20/24 12:30 Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	96443	11/23/24 16:48	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	96439	11/24/24 03:18	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/24/24 03:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 00:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	96192	11/20/24 13:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96260	11/22/24 00:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/22/24 23:06	SMC	EET MID

Lab Sample ID: 890-7406-9 Client Sample ID: HA - 2

Date Collected: 11/20/24 12:40 Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	96443	11/23/24 16:48	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	96439	11/24/24 03:39	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/24/24 03:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 01:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	96192	11/20/24 13:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96260	11/22/24 01:15	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/22/24 23:31	SMC	EET MID

Client Sample ID: HA - 2 Lab Sample ID: 890-7406-11

Date Collected: 11/20/24 12:50 Date Received: 11/21/24 08:02

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	96443	11/23/24 16:48	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	96439	11/24/24 03:59	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/24/24 03:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 01:31	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g 1 uL	10 mL 1 uL	96192 96260	11/20/24 13:57 11/22/24 01:31	EL TKC	EET MID EET MID

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Matrix: Solid

Matrix: Solid

Released to Imaging: 2/18/2025 4:19:59 PM

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Client Sample ID: HA - 2

Date Collected: 11/20/24 12:50 Date Received: 11/21/24 08:02

Lab Sample ID: 890-7406-11

Job ID: 890-7406-1

Matrix: Solid

SDG: Chaves County, NM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/22/24 23:39	SMC	EET MID

Client Sample ID: HA - 2 Lab Sample ID: 890-7406-12

Date Collected: 11/20/24 12:55 **Matrix: Solid** Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	96355	11/22/24 08:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96346	11/22/24 11:32	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 11:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 18:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	96301	11/21/24 16:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96433	11/22/24 18:10	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/22/24 23:47	SMC	EET MID

Client Sample ID: HA - 3 Lab Sample ID: 890-7406-13

Date Collected: 11/20/24 13:00 **Matrix: Solid** Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	96355	11/22/24 08:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96346	11/22/24 16:09	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 16:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 19:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	96301	11/21/24 16:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96433	11/22/24 19:00	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/22/24 23:55	SMC	EET MID

Client Sample ID: HA - 3 Lab Sample ID: 890-7406-15

Date Collected: 11/20/24 13:10 **Matrix: Solid** Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	96355	11/22/24 08:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96346	11/22/24 16:30	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 19:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	96301	11/21/24 16:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96433	11/22/24 19:17	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/23/24 00:03	SMC	EET MID

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Lab Sample ID: 890-7406-17

Client Sample ID: HA - 3

Date Collected: 11/20/24 13:20 Date Received: 11/21/24 08:02

Matrix: Solid

Job ID: 890-7406-1

SDG: Chaves County, NM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	96355	11/22/24 08:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96346	11/22/24 16:50	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 19:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96301	11/21/24 16:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96433	11/22/24 19:35	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/23/24 00:12	SMC	EET MID

Lab Sample ID: 890-7406-18

Client Sample ID: HA - 4 Date Collected: 11/20/24 13:25

Date Received: 11/21/24 08:02

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	96355	11/22/24 08:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96346	11/22/24 17:11	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 17:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 19:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	96301	11/21/24 16:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96433	11/22/24 19:50	TKC	EET MID

4.96 g

50 mL

50 mL

50 mL

50 mL

96359

96370

96370

11/22/24 09:02

11/23/24 00:36

11/23/24 00:44

Client Sample ID: HA - 4

Soluble

Soluble

Soluble

Lab Sample ID: 890-7406-20

SA

SMC

Date Collected: 11/20/24 13:35 Date Received: 11/21/24 08:02

Leach

Analysis

Analysis

DI Leach

300.0

300.0

Matrix: Solid

EET MID

EET MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	96355	11/22/24 08:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96346	11/22/24 17:31	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 17:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 20:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	96301	11/21/24 16:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96433	11/22/24 20:07	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	96359	11/22/24 09:02	SA	EET MID

50 mL

Client Sample ID: HA - 4

Lab Sample ID: 890-7406-22

SMC

Date Collected: 11/20/24 13:45 Date Received: 11/21/24 08:02

Matrix: Solid

EET MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	96355	11/22/24 08:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96346	11/22/24 17:51	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 17:51	SM	EET MID

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Client Sample ID: HA - 4

Date Collected: 11/20/24 13:45 Date Received: 11/21/24 08:02

Lab Sample ID: 890-7406-22

SDG: Chaves County, NM

Job ID: 890-7406-1

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			96326	11/22/24 20:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	96301	11/21/24 16:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96433	11/22/24 20:23	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/23/24 01:08	SMC	EET MID

Client Sample ID: HA - 4 Lab Sample ID: 890-7406-23

Date Collected: 11/20/24 13:50 Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	96355	11/22/24 08:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96346	11/22/24 18:12	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 20:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96301	11/21/24 16:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96433	11/22/24 20:40	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	96359	11/22/24 09:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96370	11/23/24 01:17	SMC	EET MID

Client Sample ID: HA - 5 Lab Sample ID: 890-7406-24 Date Collected: 11/20/24 13:55 **Matrix: Solid**

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.01 g 5 mL 96355 11/22/24 08:32 MNR EET MID Total/NA 8021B 5 mL 5 mL 96346 11/22/24 18:32 EL EET MID Analysis 1 Total/NA Analysis Total BTEX 1 96537 11/22/24 18:32 SM **EET MID** Total/NA Analysis 8015 NM 96326 11/22/24 20:56 SM **EET MID** 1 Total/NA Prep 8015NM Prep 10.07 g 10 mL 96301 11/21/24 16:11 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 96433 11/22/24 20:56 TKC **EET MID** Soluble Leach DI Leach 5.03 g 50 mL 96376 11/22/24 11:15 SA EET MID Soluble Analysis 300.0 50 mL 50 mL 96380 11/23/24 06:18 SMC FFT MID 1

Client Sample ID: HA - 5 Lab Sample ID: 890-7406-26 Date Collected: 11/20/24 14:05 **Matrix: Solid**

Date Received: 11/21/24 08:02

Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	96355	11/22/24 08:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96346	11/22/24 18:53	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 18:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/22/24 21:11	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	96301 96433	11/21/24 16:11 11/22/24 21:11	EL TKC	EET MID EET MID

Eurofins Carlsbad

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Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Lab Sample ID: 890-7406-26

SDG: Chaves County, NM

Job ID: 890-7406-1

Matrix: Solid

Client Sample ID: HA - 5

Date Collected: 11/20/24 14:05 Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	96376	11/22/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96380	11/23/24 06:27	SMC	EET MID

Client Sample ID: HA - 5 Lab Sample ID: 890-7406-28

Date Collected: 11/20/24 14:15 **Matrix: Solid**

Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	96355	11/22/24 08:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96346	11/22/24 19:13	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 19:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/25/24 12:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	96448	11/23/24 19:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96449	11/25/24 12:45	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	96376	11/22/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96380	11/23/24 06:35	SMC	EET MID

Client Sample ID: HA - 5 Lab Sample ID: 890-7406-29

Date Collected: 11/20/24 14:20 **Matrix: Solid**

Date Received: 11/21/24 08:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	96356	11/22/24 08:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96345	11/22/24 11:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96537	11/22/24 11:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			96326	11/25/24 13:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	96448	11/23/24 19:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96449	11/25/24 13:34	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	96376	11/22/24 11:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96380	11/23/24 06:43	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: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Job ID: 890-7406-1 SDG: Chaves County, NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
• ,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Job ID: 890-7406-1 SDG: Chaves 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

Lab Sample ID

890-7406-1

890-7406-3

890-7406-5

890-7406-6

890-7406-7

890-7406-9

890-7406-11

890-7406-12

890-7406-13

890-7406-15

890-7406-17

890-7406-18

890-7406-20

890-7406-22

890-7406-23

890-7406-24

890-7406-26

890-7406-28

890-7406-29

Sample Summary

Collected

11/20/24 12:00

11/20/24 12:10

11/20/24 12:20

11/20/24 12:25

11/20/24 12:30

11/20/24 12:40

11/20/24 12:50

11/20/24 12:55

11/20/24 13:00

11/20/24 13:10

11/20/24 13:20

11/20/24 13:25

11/20/24 13:35

11/20/24 13:45

11/20/24 13:50

11/20/24 13:55

11/20/24 14:05

11/20/24 14:15

11/20/24 14:20

11/21/24 08:02

11/21/24 08:02

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2

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6

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6

0.5

Matrix

Solid

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-R-EXT)

Client Sample ID

HA - 1

HA - 1

HA - 1

HA - 1

HA - 2

HA - 2 HA - 2

HA - 2

HA - 3

HA - 3

HA - 3

HA - 4

HA - 4

HA - 4

HA - 4

HA - 5

HA - 5

HA - 5

HA - 5

Job ID: 890-7406-1 SDG: Chaves County, NM

Received	Depth
11/21/24 08:02	0.5
11/21/24 08:02	2
11/21/24 08:02	4
11/21/24 08:02	6
11/21/24 08:02	0.5
11/21/24 08:02	2
11/21/24 08:02	4
11/21/24 08:02	6
11/21/24 08:02	0.5
11/21/24 08:02	2
11/21/24 08:02	4
11/21/24 08:02	0.5

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Company Name		standard terms and conditions roumstances beyond the control orced unless previously negotiated.	affiliates and subcontractors. It assigns by the client if such losses are due to client not analyzed. These terms will be enforced to the contract of the con	s Xenco, its a ses incurred fins Xenco, b	y to Eurofin es or expen ted to Eurot	compan any loss le submit	urchase order from client me any responsibility for arge of \$5 for each samp	stitutes a valid p nd shall not assu project and a ch	of samples cons it of samples an applied to each	and relinquishment of able only for the coses of \$85.00 will be	of this document ns Xenco will be li . A minimum cha	Signature o e. Eurofir Ins Xenco.
Earth Systems R&R Company Comp	1/245.1//4/0//4/1	Hg: 163							zed	(s) to be analyz	i(s) and Meta	Method
Bill Bott Moreno Bill Bott Moreno Bill Bott Moreno Company Name: Earth Systems R&R	Sr Tl Sn U V Zn	Ni K Se Ag SiO ₂	Ca Cr Co Cu Fe Pb	Be B Co	As	Al Sb				00.8 / 6020:	7 / 6010 2	al 200.
Earth Systems R&R Company Name: Earth Systems R&R Program: USTPST PRP Browfields RRC					×	1 1		12:40	11.20.24	S	HA-2	
Earth Systems R&R Company Name: Earth Systems R&R Program: UST/PST PRP Browfinds RRC			×		ļ	-		12:35	11.20.24	S	HA-2	
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Ither Moreno				-	×			12:25	11.20.24	S	HA-1	
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Bill loc; if differenty Earth Systems R&R Company Name: Sample Comments Sample Company Name: Sample Co	Incident Number			\vdash	×	1		12:00	11.20.24	S	HA-1	
Bill to: (if different) Earth Systems R&R arth Systems R&R Address: Address: A	Sample Comments		Hold		TPH -NM	# of		Time Sampled	Date Sampled		e Identificatio	Sample
	Nauntascorbic Acid. GATC					1	50	emperature:	Corrected Te		rs:	tal Containers:
Silbert Moreno Bill fo: (if different) Earth Systems R&R Company Name: Company Name:	Zn Acetate+NaOH: Zn						1	Reading:	Temperature	NO NIA		Custoo
Bill fo: (if different) Earth Systems R&R Company Name: Program: UST/PST PRP Brownfields RRC	Na ₂ S ₂ O ₃ : NaSO ₃					Pa	-0.2	actor:	Correction F.	No (N/A)		Custody
ager. Gilbert Moreno Bill to: (if different) Earth Systems R&R Work Order Comments ame: Earth Systems R&R Company Name: Program: UST/PST □ PRP □ Brownfields □ RRC □ 1910 Resource Ct. Address: Address: State of Project: IPST/UST □ TRRP □ City, State ZIP: Reporting: Level II □ Level III □ PST/UST □ TRRP □ B32-541-7719 Email: gmoreno@earthsys.net Preservatin Be: CHAVIS 8" LATERAL (MAL-1-10-3-4-EXT □ Trn Around Preservatin Deliverables: EDD □ ADaPT □ Other: Preservatin ANALYSIS REQUEST Preservatin ANALYSIS REQUEST Preservatin Horne: NO Cool: Cool HCL: HC H2SO4: H2 H3PO4: H2 H3PO4: H2	NaHSO ₄ : NABIS	of Custody	890-/406 Chain			arar	Tungon	er ID:	Thermomete		ived Intact: (es Recei
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Xenco

Environment Testing

Project Manager: Company Name:

Earth Systems R&R Gilbert Moreno

Bill to: (if different) Company Name:

Earth Systems R&R

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Chain of Custody

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 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

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Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ **Work Order Comments**

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Revised Date: 08/25/2020 Rev. 2020.2

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 nagotiated. 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

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e ZIP:	Carlsbad, NM, 88220			City, State ZIP:								Reporting: Level II Level	Reporting: Level II Level III PST/UST TRRP Level IV
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HA-4	S	11.20.24	13:45	4 C	Comp 1	×	×	×					
HA-4	S	11.20.24	13:50	6 0	Comp 1	×	×	×					
HA-5	S	11.20.24	13:55	0.5 C	Comp 1	×	×	×					
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Revised Date: 08/25/2020 Rev. 2020.2

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7406-1

SDG Number: Chaves County, NM

List Source: Eurofins Carlsbad

Login Number: 7406 List Number: 1

Creator: Bruns, Shannon

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	
s 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 semm (1/4") .	N/A	

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Containers requiring zero headspace have no headspace or bubble is

Login Number: 7406

Creator: Rios, Minerva

List Number: 2

Job Number: 890-7406-1

SDG Number: Chaves County, NM

List Source: Eurofins Midland

List Creation: 11/21/24 09:49 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	- Comment
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
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	

N/A

Released to Imaging: 2/18/2025 4:19:59 PM

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/30/2024 5:43:52 PM

JOB DESCRIPTION

Chavis 8" Lateral (MAL-1-10-3-4-EXT Chaves County, NM

JOB NUMBER

890-7519-1

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

Brianna Tel

Generated 12/30/2024 5:43:52 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT Laboratory Job ID: 890-7519-1 SDG: Chaves County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration

Job ID: 890-7519-1

Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT

SDG: Chaves County, NM

Qualifiers

GC VOA

Qualifier

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

*+ LCS and/or LCSD is outside acceptance limits, high biased.

*1 LCS/LCSD RPD exceeds control limits.

Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

S1- Surrogate recovery exceeds control limits, low biased.

S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Eurofins Carlsbad

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Job ID: 890-7519-1

Case Narrative

Client: Earth Systems Response and Restoration

Project: Chavis 8" Lateral (MAL-1-10-3-4-EXT

Eurofins Carlsbad Job ID: 890-7519-1

Job Narrative 890-7519-1

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 12/27/2024 2:06 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 0.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (890-7519-1), SW-1 (890-7519-2) and SW-2 (890-7519-3).

GC VOA

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

Diesel Range Organics

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98990 and analytical batch 880-99023 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 duplicate (LCSD) recovery is within acceptance limits.

Method 8015MOD NM: The laboratory control sample (LCS) for preparation batch 880-98990 and analytical batch 880-99023 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). These analytes were biased high in the LCS and were within the control limits for the associated laboratory control sample duplicate (LCSD); therefore, the data have been reported.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-98990 and analytical batch 880-99023 was outside the control limits.

Method 8015MOD NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SW-1 (890-7519-2) and (LCS 880-98990/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (890-7519-A-1-B MS) and (890-7519-A-1-C MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT Job ID: 890-7519-1

SDG: Chaves County, NM

Client Sample ID: CS-1

Date Collected: 12/27/24 09:15 Date Received: 12/27/24 14:06 Lab Sample ID: 890-7519-1 Matrix: Solid

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/30/24 09:59	12/30/24 12:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/30/24 09:59	12/30/24 12:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/30/24 09:59	12/30/24 12:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/30/24 09:59	12/30/24 12:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/30/24 09:59	12/30/24 12:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/30/24 09:59	12/30/24 12:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				12/30/24 09:59	12/30/24 12:26	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/30/24 09:59	12/30/24 12:26	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.9		49.9 —	MDL	mg/Kg	D	Prepared	Analyzed 12/30/24 13:04	Dil Fac
· ·									
Method: SW846 8015B NM - Dies			• •			_			5.1.5
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ *1 F1	49.9		mg/Kg		12/29/24 20:37	12/30/24 13:04	1
Diesel Range Organics (Over	<49.9	U *+ *1 F1	49.9		mg/Kg		12/29/24 20:37	12/30/24 13:04	1
C10-C28)					5 5				
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/29/24 20:37	12/30/24 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				12/29/24 20:37	12/30/24 13:04	1
1-Chiorodciane	//								
	73		70 - 130				12/29/24 20:37	12/30/24 13:04	
o-Terphenyl Method: EPA 300.0 - Anions, Ion	73 Chromatograp	•	9				12/29/24 20:37	12/30/24 13:04	1
o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	73 Chromatograp	hy - Soluble Qualifier		MDL	Unit mg/Kg	D	12/29/24 20:37 Prepared	12/30/24 13:04 Analyzed 12/30/24 11:13	Dil Fac

Client Sample ID: SW-1

Date Collected: 12/27/24 09:30 Date Received: 12/27/24 14:06

Matrix: Solid

Lab Sample ID: 890-7519-2

Sample Depth: 0-3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/30/24 09:59	12/30/24 12:47	1
Toluene	0.00345		0.00201		mg/Kg		12/30/24 09:59	12/30/24 12:47	1
Ethylbenzene	0.00224		0.00201		mg/Kg		12/30/24 09:59	12/30/24 12:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/30/24 09:59	12/30/24 12:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/30/24 09:59	12/30/24 12:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/30/24 09:59	12/30/24 12:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				12/30/24 09:59	12/30/24 12:47	

Matrix: Solid

Client Sample Results

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT

Job ID: 890-7519-1 SDG: Chaves County, NM

Lab Sample ID: 890-7519-2

Client Sample ID: SW-1

Date Collected: 12/27/24 09:30 Date Received: 12/27/24 14:06

Sample Depth: 0-3

Method: SW846 8021B	Volatile Organic Com	pounds (GC) (Continued)
Michiga, Offord 002 ID	Volunic Organic Com	ipodilas (GG) (Golitilaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	98	70 - 130	12/30/24 09:59	12/30/24 12:47	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
Mictilou. IAL	- OOI TOTAL DIEA	- IOIGI DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	0.00569		0.00402		mg/Kg				12/30/24 12:47	1

Method: SW846 8015 NM - Diesel Range Organics (DR	
	Organica (DDO) (CC)
	Ordanics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/30/24 13:48	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+ *1	50.0		mg/Kg		12/29/24 20:37	12/30/24 13:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1	50.0		mg/Kg		12/29/24 20:37	12/30/24 13:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/29/24 20:37	12/30/24 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	12/29/24 20:37	12/30/24 13:48	1
o-Terphenyl	64	S1-	70 - 130	12/29/24 20:37	12/30/24 13:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.7		10.0		mg/Kg			12/30/24 11:31	1

Client Sample ID: SW-2 Lab Sample ID: 890-7519-3

Date Collected: 12/27/24 09:45 Date Received: 12/27/24 14:06

Sample Depth: 0-3

Mothodi CIMO46 0024D	Valatila Organia Campaunda (C)	~

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/30/24 09:59	12/30/24 13:07	1
Toluene	0.0101		0.00200		mg/Kg		12/30/24 09:59	12/30/24 13:07	1
Ethylbenzene	0.0133		0.00200		mg/Kg		12/30/24 09:59	12/30/24 13:07	1
m-Xylene & p-Xylene	0.0167		0.00399		mg/Kg		12/30/24 09:59	12/30/24 13:07	1
o-Xylene	0.00679		0.00200		mg/Kg		12/30/24 09:59	12/30/24 13:07	1
Xylenes, Total	0.0235		0.00399		mg/Kg		12/30/24 09:59	12/30/24 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/30/24 09:59	12/30/24 13:07	1
1									

	, ,	 		,	
4-Bromofluorobenzene (Surr)	116	 70 - 130	12/30/24 09:59	12/30/24 13:07	1
1,4-Difluorobenzene (Surr)	92	70 - 130	12/30/24 09:59	12/30/24 13:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualif	fier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0469	0.00399	mg/Kg			12/30/24 13:07	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.0		49.8	mg/Kg			12/30/24 14:03	1

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Matrix: Solid

Client Sample Results

Client: Earth Systems Response and Restoration

Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT

Job ID: 890-7519-1

SDG: Chaves County, NM

Client Sample ID: SW-2 Lab Sample ID: 890-7519-3

Date Collected: 12/27/24 09:45

Date Received: 12/27/24 14:06

Matrix: Solid

Sample Depth: 0-3

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+ *1	49.8		mg/Kg		12/29/24 20:37	12/30/24 14:03	1
Diesel Range Organics (Over C10-C28)	76.0	*+ *1	49.8		mg/Kg		12/29/24 20:37	12/30/24 14:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/29/24 20:37	12/30/24 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				12/29/24 20:37	12/30/24 14:03	1
o-Terphenyl	70		70 - 130				12/29/24 20:37	12/30/24 14:03	1

RL

9.94

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

169

Eurofins Carlsbad

2

3

5

7

0

10

Dil Fac

Analyzed

12/30/24 11:37

13

Surrogate Summary

Client: Earth Systems Response and Restoration Job ID: 890-7519-1 Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT SDG: Chaves County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7519-1	CS-1	101	96	
890-7519-1 MS	CS-1	108	98	
890-7519-1 MSD	CS-1	115	98	
890-7519-2	SW-1	114	98	
890-7519-3	SW-2	116	92	
LCS 880-99026/1-A	Lab Control Sample	98	98	
LCSD 880-99026/2-A	Lab Control Sample Dup	103	98	
MB 880-99026/5-A	Method Blank	95	91	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7519-1	CS-1	77	73
890-7519-1 MS	CS-1	76	67 S1-
890-7519-1 MSD	CS-1	71	66 S1-
890-7519-2	SW-1	67 S1-	64 S1-
890-7519-3	SW-2	70	70
LCS 880-98990/2-A	Lab Control Sample	174 S1+	152 S1+
LCSD 880-98990/3-A	Lab Control Sample Dup	118	102
MB 880-98990/1-A	Method Blank	69 S1-	76

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration Job ID: 890-7519-1 Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT SDG: Chaves County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99026/5-A

Lab Sample ID: LCS 880-99026/1-A

Analysis Batch: 99018

Matrix: Solid

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Batch: 99026

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/30/24 09:59	12/30/24 12:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/30/24 09:59	12/30/24 12:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/30/24 09:59	12/30/24 12:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/30/24 09:59	12/30/24 12:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/30/24 09:59	12/30/24 12:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/30/24 09:59	12/30/24 12:05	1

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95	70 - 130	12/30/24 09:59	12/30/24 12:05	1
1,4-Difluorobenzene (Surr)	91	70 - 130	12/30/24 09:59	12/30/24 12:05	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99026

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1114 mg/Kg 111 70 - 130 Toluene 0.100 0.1098 mg/Kg 110 70 - 130 0.100 108 Ethylbenzene 0.1077 mg/Kg 70 - 130 0.200 103 70 - 130 m-Xylene & p-Xylene 0.2064 mg/Kg 0.100 70 - 130 o-Xylene 0.1131 mg/Kg 113

LCS LCS

Surrogate	%Recovery Qualit	fier Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: LCSD 880-99026/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 99018

Analysis Batch: 99018

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99026

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1125		mg/Kg		112	70 - 130	1	35	
Toluene	0.100	0.1140		mg/Kg		114	70 - 130	4	35	
Ethylbenzene	0.100	0.1118		mg/Kg		112	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.2167		mg/Kg		108	70 - 130	5	35	
o-Xylene	0.100	0.1185		mg/Kg		119	70 - 130	5	35	

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1.4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 890-7519-1 MS

Matrix: Solid

Analysis Batch: 99018

Client Sample ID: CS-1 Prep Type: Total/NA

Prep Batch: 99026

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.100	0.1117		mg/Kg		112	70 - 130
Toluene	<0.00200	U	0.100	0.1099		mg/Kg		110	70 - 130

QC Sample Results

Job ID: 890-7519-1 Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT SDG: Chaves County, NM

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

Lab Sample ID: 890-7519-1 MS Client Sample ID: CS-1 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 99018 Prep Batch: 99026

	Sample Sample	e Spike	MS	MS				%Rec		
Analyte	Result Qualifie	er Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00200 U	0.100	0.1069		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene	<0.00399 U	0.200	0.2064		mg/Kg		103	70 - 130		
o-Xylene	<0.00200 U	0.100	0.1127		mg/Kg		113	70 - 130		
m-Xylene & p-Xylene	<0.00399 U	0.200	0.2064		mg/Kg		103	70 - 130		

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 108 1,4-Difluorobenzene (Surr) 98 70 - 130

Lab Sample ID: 890-7519-1 MSD

Matrix: Solid									Type: To	tal/NA
Analysis Batch: 99018								Pre	p Batch:	99026
	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	 %Rec	Limits	RPD	Limit

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1129		mg/Kg		113	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.1151		mg/Kg		115	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.1137		mg/Kg		114	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2204		mg/Kg		110	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.1209		mg/Kg		121	70 - 130	7	35
	Men	MCD									

Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 115 1,4-Difluorobenzene (Surr) 98 70 - 130

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

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Lab Sample ID: MB 880-98990/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 99023

ı		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/29/24 20:37	12/30/24 10:23	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/29/24 20:37	12/30/24 10:23	1
	Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/29/24 20:37	12/30/24 10:23	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 12/29/24 20:37 1-Chlorooctane 69 S1-12/30/24 10:23 70 - 130 o-Terphenyl 76 12/29/24 20:37 12/30/24 10:23

Lab Sample ID: LCS 880-98990/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 99023							Prep Batch: 98990		
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	1417	*+	mg/Kg		142	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1458	*+	mg/Kg		146	70 - 130		
C10-C28)									

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Client Sample ID: CS-1

Prep Batch: 98990

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT

Job ID: 890-7519-1 SDG: Chaves County, NM

Prep Batch: 98990

Prep Type: Total/NA

Prep Batch: 98990

Prep Type: Total/NA

Prep Batch: 98990

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

Lab Sample ID: LCS 880-98990/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 99023

S LCS	LCS
y Qualifier	ery

%Recov Surrogate 1-Chlorooctane 174 S1+ 70 - 130 o-Terphenyl 152 S1+ 70 - 130

Lab Sample ID: LCSD 880-98990/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 99023							Prep	Batch:	98990
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1033	*1	mg/Kg		103	70 - 130	31	20
Diesel Range Organics (Over C10-C28)	1000	997.2	*1	mg/Kg		100	70 - 130	38	20

LCSD LCSD Surrogate %Recovery Qualifier Limits 118 70 - 130 1-Chlorooctane o-Terphenyl 102 70 - 130

Lab Sample ID: 890-7519-1 MS Client Sample ID: CS-1 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 99023

•	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ *1 F1	999	531.4	F1	mg/Kg		53	70 - 130
Diesel Range Organics (Over	<49.9	U *+ *1 F1	999	539.6	F1	mg/Kg		54	70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	67	S1-	70 - 130

Lab Sample ID: 890-7519-1 MSD Client Sample ID: CS-1

Matrix: Solid

Analysis Batch: 99023

	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	<49.9	U *+ *1 F1	999	518.7	F1	mg/Kg		52	70 - 130	2	20	
Diesel Range Organics (Over	<49.9	U *+ *1 F1	999	546.1	F1	mg/Kg		55	70 - 130	1	20	

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	71		70 - 130
o-Terphenyl	66	S1-	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT Job ID: 890-7519-1

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

SDG: Chaves County, NM

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: CS-1

Client Sample ID: CS-1 **Prep Type: Soluble**

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98999/1-A

Matrix: Solid

Analysis Batch: 99013

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 mg/Kg 12/30/24 09:33

Lab Sample ID: LCS 880-98999/2-A

Matrix: Solid

Analysis Batch: 99013

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 233.7 mg/Kg 93 90 - 110

Lab Sample ID: LCSD 880-98999/3-A

Matrix: Solid

Analysis Batch: 99013

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 234.3 mg/Kg 90 - 110

Lab Sample ID: 890-7519-1 MS

Matrix: Solid

Analysis Batch: 99013

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Unit %Rec Result Qualifier Limits Chloride 80.7 252 344.8 105 90 - 110 mg/Kg

Lab Sample ID: 890-7519-1 MSD

Released to Imaging: 2/18/2025 4:19:59 PM

Matrix: Solid

Analysis Batch: 99013

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 252 Chloride 80.7 344.1 mg/Kg 105 90 - 110 0 20

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-7519-1

Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT

SDG: Chaves County, NM

GC VOA

Analysis Batch: 99018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7519-1	CS-1	Total/NA	Solid	8021B	99026
890-7519-2	SW-1	Total/NA	Solid	8021B	99026
890-7519-3	SW-2	Total/NA	Solid	8021B	99026
MB 880-99026/5-A	Method Blank	Total/NA	Solid	8021B	99026
LCS 880-99026/1-A	Lab Control Sample	Total/NA	Solid	8021B	99026
LCSD 880-99026/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99026
890-7519-1 MS	CS-1	Total/NA	Solid	8021B	99026
890-7519-1 MSD	CS-1	Total/NA	Solid	8021B	99026

Prep Batch: 99026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7519-1	CS-1	Total/NA	Solid	5035	<u> </u>
890-7519-2	SW-1	Total/NA	Solid	5035	
890-7519-3	SW-2	Total/NA	Solid	5035	
MB 880-99026/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99026/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99026/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7519-1 MS	CS-1	Total/NA	Solid	5035	
890-7519-1 MSD	CS-1	Total/NA	Solid	5035	

Analysis Batch: 99112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7519-1	CS-1	Total/NA	Solid	Total BTEX	
890-7519-2	SW-1	Total/NA	Solid	Total BTEX	
890-7519-3	SW-2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7519-1	CS-1	Total/NA	Solid	8015NM Prep	
890-7519-2	SW-1	Total/NA	Solid	8015NM Prep	
890-7519-3	SW-2	Total/NA	Solid	8015NM Prep	
MB 880-98990/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98990/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98990/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7519-1 MS	CS-1	Total/NA	Solid	8015NM Prep	
890-7519-1 MSD	CS-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7519-1	CS-1	Total/NA	Solid	8015B NM	98990
890-7519-2	SW-1	Total/NA	Solid	8015B NM	98990
890-7519-3	SW-2	Total/NA	Solid	8015B NM	98990
MB 880-98990/1-A	Method Blank	Total/NA	Solid	8015B NM	98990
LCS 880-98990/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98990
LCSD 880-98990/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98990
890-7519-1 MS	CS-1	Total/NA	Solid	8015B NM	98990
890-7519-1 MSD	CS-1	Total/NA	Solid	8015B NM	98990

Eurofins Carlsbad

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QC Association Summary

Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT Job ID: 890-7519-1 SDG: Chaves County, NM

GC Semi VOA

Analysis Batch: 99085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7519-1	CS-1	Total/NA	Solid	8015 NM	
890-7519-2	SW-1	Total/NA	Solid	8015 NM	
890-7519-3	SW-2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7519-1	CS-1	Soluble	Solid	DI Leach	
890-7519-2	SW-1	Soluble	Solid	DI Leach	
890-7519-3	SW-2	Soluble	Solid	DI Leach	
MB 880-98999/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98999/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98999/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7519-1 MS	CS-1	Soluble	Solid	DI Leach	
890-7519-1 MSD	CS-1	Soluble	Solid	DI Leach	

Analysis Batch: 99013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7519-1	CS-1	Soluble	Solid	300.0	98999
890-7519-2	SW-1	Soluble	Solid	300.0	98999
890-7519-3	SW-2	Soluble	Solid	300.0	98999
MB 880-98999/1-A	Method Blank	Soluble	Solid	300.0	98999
LCS 880-98999/2-A	Lab Control Sample	Soluble	Solid	300.0	98999
LCSD 880-98999/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98999
890-7519-1 MS	CS-1	Soluble	Solid	300.0	98999
890-7519-1 MSD	CS-1	Soluble	Solid	300.0	98999

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Client: Earth Systems Response and Restoration Project/Site: Chavis 8" Lateral (MAL-1-10-3-4-EXT

Lab Sample ID: 890-7519-1

Matrix: Solid

Date Collected: 12/27/24 09:15 Date Received: 12/27/24 14:06

Client Sample ID: CS-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99026	12/30/24 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99018	12/30/24 12:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99112	12/30/24 12:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			99085	12/30/24 13:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98990	12/29/24 20:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99023	12/30/24 13:04	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98999	12/30/24 08:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99013	12/30/24 11:13	CH	EET MID

Client Sample ID: SW-1 Lab Sample ID: 890-7519-2 Date Collected: 12/27/24 09:30

Matrix: Solid

Date Received: 12/27/24 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99026	12/30/24 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99018	12/30/24 12:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99112	12/30/24 12:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			99085	12/30/24 13:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98990	12/29/24 20:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99023	12/30/24 13:48	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98999	12/30/24 08:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99013	12/30/24 11:31	CH	EET MID

Client Sample ID: SW-2 Lab Sample ID: 890-7519-3

Date Collected: 12/27/24 09:45 Date Received: 12/27/24 14:06 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	99026	12/30/24 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99018	12/30/24 13:07	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			99112	12/30/24 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			99085	12/30/24 14:03	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98990	12/29/24 20:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99023	12/30/24 14:03	TKC	EET MIC
Soluble	Leach	DI Leach			5.03 g	50 mL	98999	12/30/24 08:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99013	12/30/24 11:37	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: Chavis 8" Lateral (MAL-1-10-3-4-EXT Job ID: 890-7519-1

SDG: Chaves County, NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
	are included in this report, but oes not offer certification.	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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: Chavis 8" Lateral (MAL-1-10-3-4-EXT

Job ID: 890-7519-1 SDG: Chaves 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: Chavis 8" Lateral (MAL-1-10-3-4-EXT Job ID: 890-7519-1

SDG: Chaves County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7519-1	CS-1	Solid	12/27/24 09:15	12/27/24 14:06	3
890-7519-2	SW-1	Solid	12/27/24 09:30	12/27/24 14:06	0-3
890-7519-3	SW-2	Solid	12/27/24 09:45	12/27/24 14:06	0-3

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Environment Testing

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Chain of Custody

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 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

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890-7519 Chain of Custody		
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ANALYSIS REQUEST Preservative Codes Code Co	CATERLA (MAL-1-0.3-EXT)	Revised Date: 08/25/2020 Rev. 2020.2	Pevised Date: 08/					6										
Preservativ None: NO Cool: Cool HCL: HC H ₂ S0 ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOt NaOH+Ascorbic / Sample Co Incident I nAPP243: 0, Na St. Tl. 3n H V.2 g; 1631 / 245.1 / 7470 / 7	Preservativ None: NO Cool: Cool HCL: HC H ₂ S0 ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOt NaOH+Ascorbic / Sample Co Incident I nAPP243: G: Na St. Tl. 3n H V.2 G: Na St. Tl							179		6 6	2				3	albell		0,000
Preservative None: NO Cool: Cool Cool Cool HCL: HC H ₂ S0 ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOt NaOH+Ascorbic / NaOH+Ascorbic / Sample Cool Incident NaPP243: NaSO ₃ NaSO ₃ NaPP243: NaPP243: NaSO ₃ NaSO ₃ NaSO ₃ NaOH+Ascorbic / Na	Preservativ None: NO Cool: Cool HCL: HC H ₂ S0 ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NaOt NaOH+Ascorbic / Sample Co Incident I nAPP243: G; 1631 / 245.1 / 7470 / 7 Ig: 1631 / 245.1 / 7470 / 7 Incident I NAPP243: Incident I NAPP243: Incident I NAPP243: Incident I Inci							0	3									1.00
Preservativ None: NO Cool: Cool HCL: HC H ₂ S0 ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaO+ NaOH+Ascorbic / Incident I nAPP243 G ₂ : Na: St. TH: Sn: H: V: 7 Ig: 1631/245:1/7470 / 7 Ig: 1631/245:1/7470 / 7 Ig: 1631/245:1/7470 / 7 Ig: 1631/245:1/7470 / 7 Incident I NAPP243	Preservativ None: NO Cool: Cool HCI: HC H ₂ S0 ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NASIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaO+ NaOH+Ascorbic / Incident I nAPP243 G ₂ : Na: St. TH: Sn: H: V: 7 g; 1631/245:1/7470 / 7 g; 1631/245:1/7470 / 7	ıte/Time	Da	by: (Signature)	Received	y: (Signature)	linquished b	Re	me	Date/Tii			gnaturé)	ived by: (Si	Rece		nature)	elinquished by: (Sig
AVIS 8" LATERAL (MAL-1-10-3-4-EXT) Cases County, NM Counts Cases County, NM Counts Cases Case	Turn Adund Preservative Preser			ions ontrol gotiated.	rd terms and conditi ances beyond the co inless previously neg	ors. It assigns standa es are due to circumst rms will be enforced u	and subcontract ient if such loss alyzed. These te	its affiliates red by the cl o, but not an	Xenco, in es incurr ns Xenco	o Eurofins or expens	ompany to y losses o submitted	om client co bility for an ch sample	purchase order fro ume any responsi harge of \$5 for ea	stitutes a valid nd shall not ass project and a c	samples cons of samples an plied to each	ishment of s or the cost of o will be ap	ent and relinqu be liable only fo charge of \$85.0	:: Signature of this docum vice. Eurofins Xenco will t ofins Xenco. A minimum o
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AVIS 8" LATERAL (MAL-1-10-34-EXT Turn Around Preservativ 2685 Chaves County, NM Due Date: 24 HR TAT Core. Co	Name DANUS 8" LATERAL (MAL-1-10-3-LEX] Turn Around Preservative Number 2685 Charles County, NM Due Date 24 HR TAT Cool Cool Cool S's Name Gilbert Moreno Tart starts the day received by the lab. if received by 4-30pm Test short starts the day received by the lab. if received by 4-30pm Test short	77.	121 251			J. J			þ	Da		ш	ISPPIM Tex			720:	200.87 60	oral 200.7 / 6010
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AVIS 8" LATERAL (MAL-1-10-3-4EXT Turn Around Preservativ 2885 Code Chaves County, NM Code C	ANALYSIS REQUEST Preservative ANALYSIS REQUEST Preservative ANALYSIS REQUEST								-	_								`
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AVIS 8" LATERAL (MAL-1-10-3-4-EX) Chaves County, NM	Name: Care								-	_								3
AVIS 8" LATERAL (MAL-1-10-3-4-EXT	Name: Case								-	_								
AVIS 8" LATERAL (MAL-1-10-3-4 EXT Chaves County, NM Due Date: 24 HR TAT Code Cool: C	Name: Chaves County NM Chaves County NM Countine Color Countine								-	-					\			
AVIS 8" LATERAL (MAL-1-10-3-4-EXT	Name: DAZ-3-1717 DAZ-1817 DAZ-1717 DAZ-1817 DAZ-1717 DAZ-1						×	Ê	+	╁		Comp	0-3	9:45	12.27.24	-		SW - 2
Avis 8" LATERAL (MAL-1-10-3-4-EXT	Name: Phavis 8" Lateral (MAL-1-10-3-4-EXT) Turn Around Preservating Number: 2685 □ Routine □ Routine □ Routine □ Routine Preservating Location: Chaves County, NM Due Date: 24 HR TAT Cool: Cool Cool: Cool Location: Chaves County, NM Due Date: 24 HR TAT Cool: Cool Cool: Cool Location: Chaves County, NM Due Date: 24 HR TAT Cool: Cool Cool: Cool Location: Chaves County, NM Push day received by 4-30pm Preserved by 4-30pm Preserved by 4-30pm Preserved by 4-30pm Cool: Cool Location: Pegs No Wet Ice: Pegs No Wet Ice: Pegs No Preserved by 4-30pm Preserved by 4-30pm Preserved by 4-30pm Preserved by 4-30pm Cool: Cool Cool: Cool Cool: Cool Preserved by 4-30pm	429248	nAPP24324				×	Î			_	Comp	0-3	9:30	12.27.24	-		SW - 1
ANALYSIS REQUEST Preservatin 2885 Chaves County, NM Due Date: Gilbert Moreno Tat starts the day received by the lab, if received by 4:30pm Tat starts the day received by 14:30pm Tat starts the day r	Name: Phavis 8" LATERAL (MAL-1-10-34-EXT Turn Around	lumber	Incident N				×		_	_		Comp	ω	9:15	12.27.24			CS - 1
AVIS 8": LATERAL (MAL-1-10-34-EXT) Turn Around Preservative ANALYSIS REQUEST Preservative None: NO Cool: Cool Cool: Cool Cool: Cool Cool: Cool Cool: Cool HCL: HC Hcl: H	Name: Chaves County, NM Due Date: Z4HR TAT ANALYSIS REQUEST Preservative None: NO Location: Chaves County, NM Due Date: 24 HR TAT Cool: Cool Cool: Cool Location: Gilbert Moreno TAT starts the day received by 4:30pm TAT starts the day received by 4:30pm Fres. No **** Received Infact: **** No **** Thermometer ID: ***	mments	Sample Cor				24 Hr Ru				# of		Depth (feet)	Time Sampled	Date Sampled		tion	Sample Identifica
AVIS 8": LATERAL (MAL-1-10-3-4-EXT Turn Around ANALYSIS REQUEST Preservative 2685 □ Routine □ Rush □ Rush □ Cool: Cool □ Rush	Name: Chavis 8" LATERAL (MAL-1-10-3-4-EXT	cid: SAPC	1+Ascorbic Ac	NaOt			sh	•	_	Nip.			0.6	emperature:	orrected Te	C		Containers:
HAVIS 8" LATERAL (MAL-1-10-3.4-EXT) Turn Around ANALYSIS REQUEST Preservative County. NA Preservative County. NM Due Date: Pres. County. NM Pres. County (County. NM Due Date: Pres. County. NM Due Date: Pres. County. NM Pres. County. NM Pres. No. County. NM Due Date: Pres. County. NM Pres. No. County. NM Due Date: Pres. County. NM Pres. No. County. NM Due Date: Pres. County. NM Pres. No. County. NM Pres. No. County. NM Cool: Cool Cool: Cool HCL: HC Cool: Cool: HCL: HC Hcl: Hc <td>Name: CHAVIS 8" LATERAL (MAL-1-10-34-EXT Turn Around Preservativ Number: 2685 □ Routine □ Routine □ Rush Pres. Location: Chaves County, NM Due Date: 24 HR TAT Pres. Cool: Cool Location: Gilbert Moreno TAT starts the day received by the lab, if received by 4:30pm Pres. Cool: Cool PLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No Thermometer ID: The Agas and the process of the pr</td> <td>:Zn</td> <td>etate+NaOH:</td> <td>Zn Ac</td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td>0.8</td> <td>Reading:</td> <td>emperature</td> <td>TI (AUV)</td> <td></td> <td>ple Custody Seals:</td>	Name: CHAVIS 8" LATERAL (MAL-1-10-34-EXT Turn Around Preservativ Number: 2685 □ Routine □ Routine □ Rush Pres. Location: Chaves County, NM Due Date: 24 HR TAT Pres. Cool: Cool Location: Gilbert Moreno TAT starts the day received by the lab, if received by 4:30pm Pres. Cool: Cool PLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No Thermometer ID: The Agas and the process of the pr	:Zn	etate+NaOH:	Zn Ac					+				0.8	Reading:	emperature	TI (AUV)		ple Custody Seals:
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Address:

Carlsbad, NM, 88220

Company Name: Project Manager:

Earth Systems R&R Gilbert Moreno

1910 Resource Ct.

Address:

City, State ZIP:

Bill to: (if different)

Earth Systems R & R

State of Project:

Reporting: Level II Level III PST/UST TRRP

Level IV

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

Work Order Comments

www.xenco.com

Page

Company Name:

Phone: City, State ZIP:

Eurofins Carlsbad

eurofins

Chain of Custody Record

1089 N Canal St. Carlsbad. NM 88220	•	hain o	of Cus	Chain of Custody Record	eco	2						Ţ	77	min					60	eurofins Environment Testing	ting
Phone: 575-988-3199 Fax: 575-988-3199						١						F		"					4	POOR IS	
Client Information (Sub Contract Lab)	Sampler: N/A		ı	Teel, B	Lab PM: Teel, Brianna	ស						ΣΩ	Carrier Tracking No(s): N/A	rackir	NO NO	(S)		1		COC No: 890-4462.1	
	Phone:			E-Mail: Briant	E-Mail: Brianna. Teel@et.eurofinsus.com	et@et	.euro	finsu	s.con	1		T S	State of Origin: Texas	Origin					77.70	Page: Page 1 of 1	
Company: Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	ations	Requir	ed (Se	e note	ب									<u> </u>	Job #: 890-7519-1	
Address: 1211 W. Florida Ave,	Due Date Requested: 12/30/2024	ă.							Analy	alysis	s R	Requested	este	۵						Preservation Codes:	
City: Midland	TAT Requested (days):	ys): N/A			+			_	_		-			-							
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Phone: 432-704-5440(TeI)	PO #				p)	ТРН				de		_									
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N/A	N/A					/8015	lc			28D/D										N/A	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Perform MS/I	8015MOD_NM/	8015MOD_Calc	8021B/5035FP_	Total_BTEX_G	300_ORGFM_2					-				Total Numbe	Special Instructions/Note:	
	\bigvee	X	Preservat	Preservation Code:	X							1				-			X		
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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 laboratory or other instructions will be provided. Any changes to	nt Testing South Centr	al, LLC places	the ownership	of method, ana	lyte & ac	credita	tion co	mpliar	nce up	on our	subco	ontract	labor Labor	atorie	E = -	is san	nple s	or ot	ent is	our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the ment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to	
Possible Hazard Identification					Sa	Sample Disposal (A fee	le Disposal (A fo	osal To C	(A fe			Dis	assessed if san Disposal By Lab	By	sam _l	ples	□are	₽ĕ	Chi i	may be assessed if samples are retained longer than 1 month) Disposal By Lab Archive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	able Rank: 2	١		Sp	Special Instructions/QC Requirements	nstru	ction	SQC	Req	uiren	ents		ŀ							
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Custody Seals Intact: Custody Seal No.: ∆ Yes ∆ No						Coole	Cooler Temperature(s) °C and Other Remarks:	peratu	re(s) °	C and	Other	Rema	rks:	-							

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7519-1

SDG Number: Chaves County, NM

List Source: Eurofins Carlsbad

Login Number: 7519 List Number: 1

Creator: Lopez, Abraham

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	
s 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 <6 mm (1/4").	N/A	

Released to Imaging: 2/18/2025 4:19:59 PM

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7519-1

SDG Number: Chaves County, NM

List Source: Eurofins Midland

List Creation: 12/29/24 04:40 PM

Login Number: 7519 List Number: 2 Creator: Laing, Edmundo

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	N/A	

Eurofins Carlsbad

<6mm (1/4").

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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 430592

QUESTIONS

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
303 Veterans Airpark Lane	Action Number:
Midland, TX 79705	430592
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2432429248
Incident Name	NAPP2432429248 CHAVIS 8" LATERAL (MAL-1-10-3-4-EXT) @ 0
Incident Type	Natural Gas Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CHAVIS 8" LATERAL (MAL-1-10-3-4-EXT)
Date Release Discovered	11/16/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Natural Gas 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	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Other Pipeline (Any) Condensate Released: 13 BBL Recovered: 11 BBL Lost: 2 BBL.
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 430592

QUESTIONS (continued)	
Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115 Action Number: 430592 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	[6 11] Nomediation Globale Nequest 6 111 (6 111 V Globale)
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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Sebastian Orozco Title: Sr. Environmental Specialist Email: sorozco@kinetik.com Date: 11/19/2024

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

QUESTIONS, Page 3

Action 430592

QUESTIONS (continued)

 Operator:
 OGRID:

 FRONTIER FIELD SERVICES, LLC
 221115

 303 Veterans Airpark Lane
 Action Number:

 Midland, TX 79705
 430592

 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 approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 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	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 100 (ft.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination a	ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling: (Provide the highest observable value for each, in milligent contamination Sampling (Provide the highest observable value for each).	grams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	169	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	621	
GRO+DRO (EPA SW-846 Method 8015M)	621	
BTEX (EPA SW-846 Method 8021B or 8260B)	18.2	
Benzene (EPA SW-846 Method 8021B or 8260B)	0.3	
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	12/23/2024	
On what date will (or did) the final sampling or liner inspection occur	12/27/2024	
On what date will (or was) the remediation complete(d)	01/05/2025	
What is the estimated surface area (in square feet) that will be reclaimed	200	
What is the estimated volume (in cubic yards) that will be reclaimed	40	
What is the estimated surface area (in square feet) that will be remediated	200	
What is the estimated volume (in cubic yards) that will be remediated	40	
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 430592

QUESTIONS (continued)

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
303 Veterans Airpark Lane	Action Number:
Midland, TX 79705	430592
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

Name: Sebastian Orozco
Title: Sr. Environmental Specialist
Email: sorozco@kinetik.com
Date: 02/11/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Oil Conservation Division
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QUESTIONS, Page 5

Action 430592

QUESTIONS (continued)

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
303 Veterans Airpark Lane	Action Number:
Midland, TX 79705	430592
	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 430592

QUESTIONS (continued)

	40-20110110 (00114111404)
Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
303 Veterans Airpark Lane	Action Number:
Midland, TX 79705	430592
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	415790
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/27/2024
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	400

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	200	
What was the total volume (cubic yards) remediated	40	
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	200	
What was the total volume (in cubic yards) reclaimed	40	
Summarize any additional remediation activities not included by answers (above)	The Site was remediated according to Site Closure Criteria and has been backfilled with clean, locally sourced material.	

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

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

I hereby agree and sign off to the above statement	Name: Sebastian Orozco Title: Sr. Environmental Specialist Email: sorozco@kinetik.com Date: 02/11/2025
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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 7

Action 430592

QUESTIONS (continued)

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
303 Veterans Airpark Lane	Action Number:
Midland, TX 79705	430592
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 430592

CONDITIONS

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
303 Veterans Airpark Lane	Action Number:
Midland, TX 79705	430592
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	2/18/2025
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	2/18/2025